

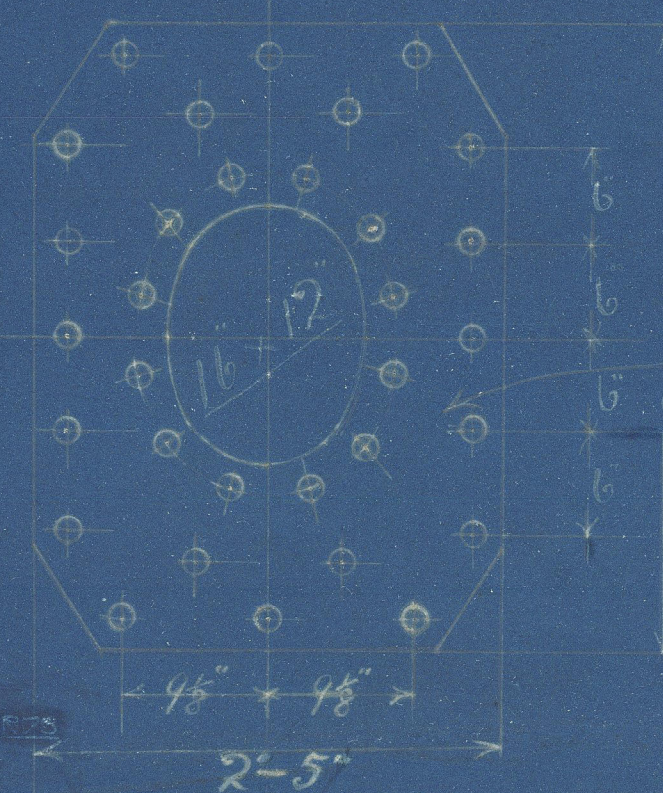
STEEL BOILER N^o A165

WORKING PRESSURE 180 LBS PER SQ. INCH
TEST 360 LBS PER SQ. INCH

SCALE 1" TO 1' FOOT

NOTE: ALL PLATES, STAYS & 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 1/8" x 1/2" EFFECTIVE DIAM. SCREWED INTO BOTH PLATES & NUTTED AS SHOWN, SCREWED 10 THREADS PER INCH.
A MANHOLE IN SHELL WITH SHORTER AXIS LONGITUDINALLY AND A DEADLINE PLATE 3'-3" x 2'-5" x 1/2" THICK FITTED ROUND IT.

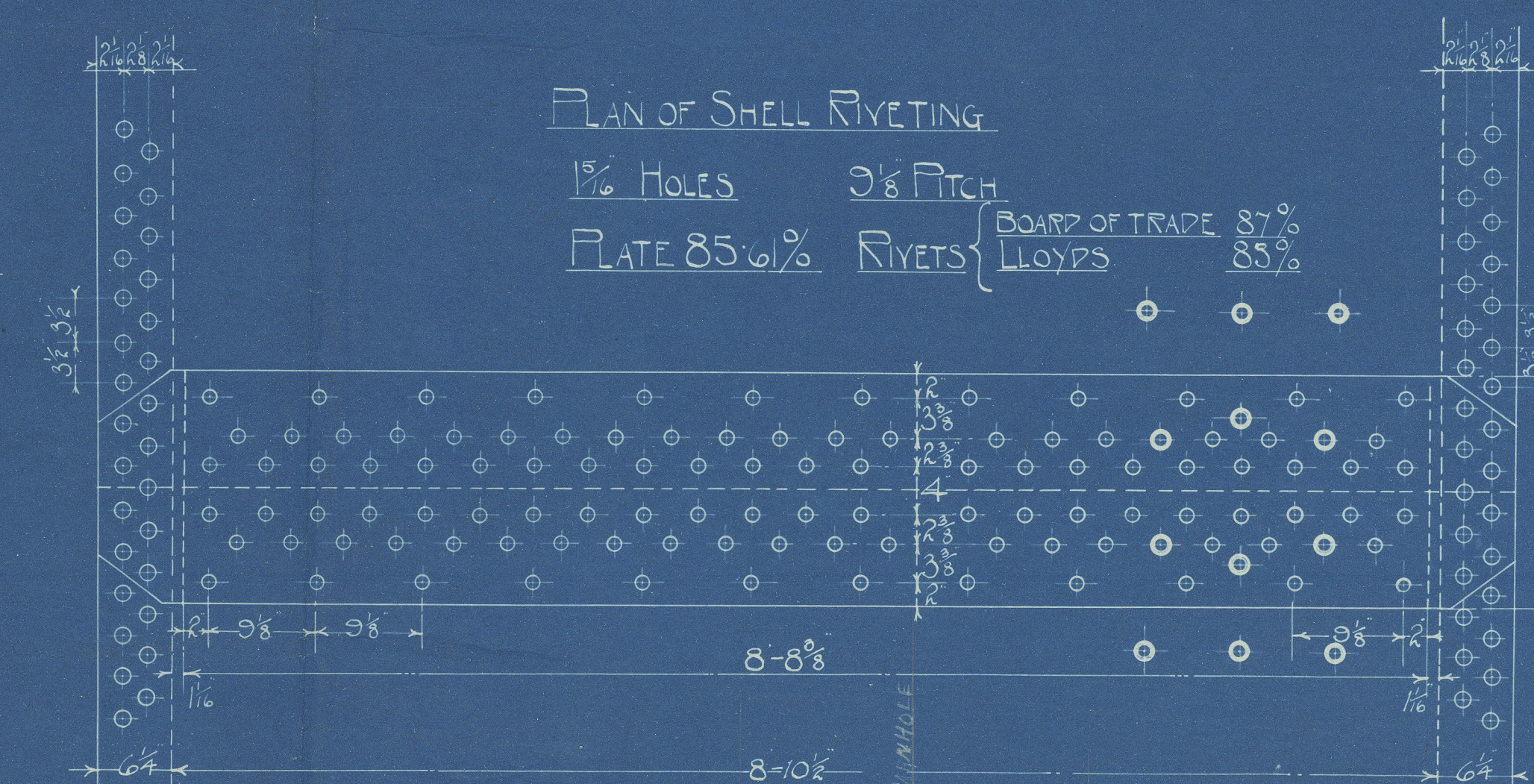
DOUBLE PLATE ROUND MANHOLE
1/2" THICK



PLAN OF SHELL RIVETING

1 1/2" HOLES 3 1/2" PITCH
PLATE 85% RIVETS

BOARD OF TRADE 87%
LLOYDS 85%

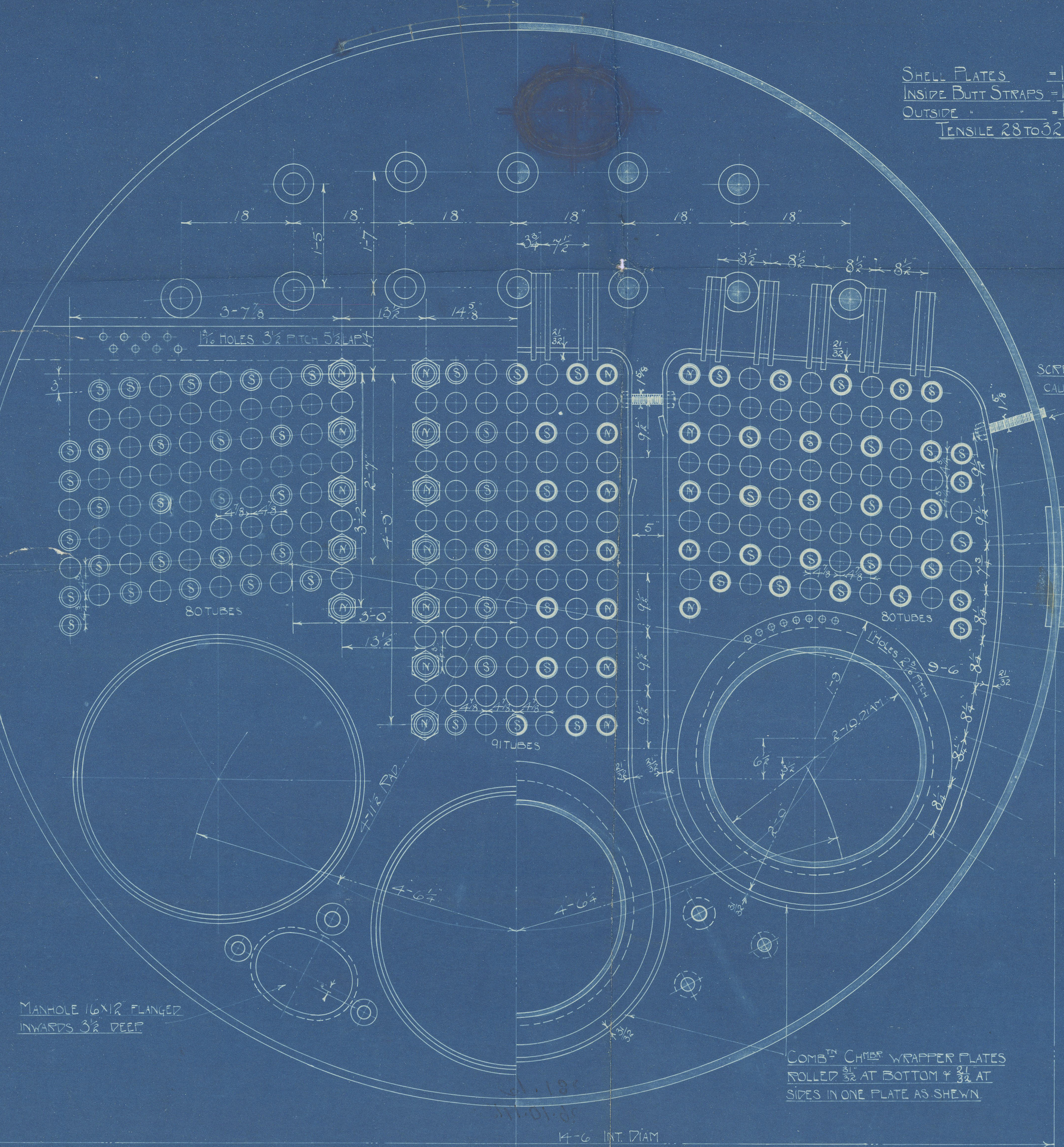


1 1/2" HOLES
3 1/2" PITCH

DIMENSIONS

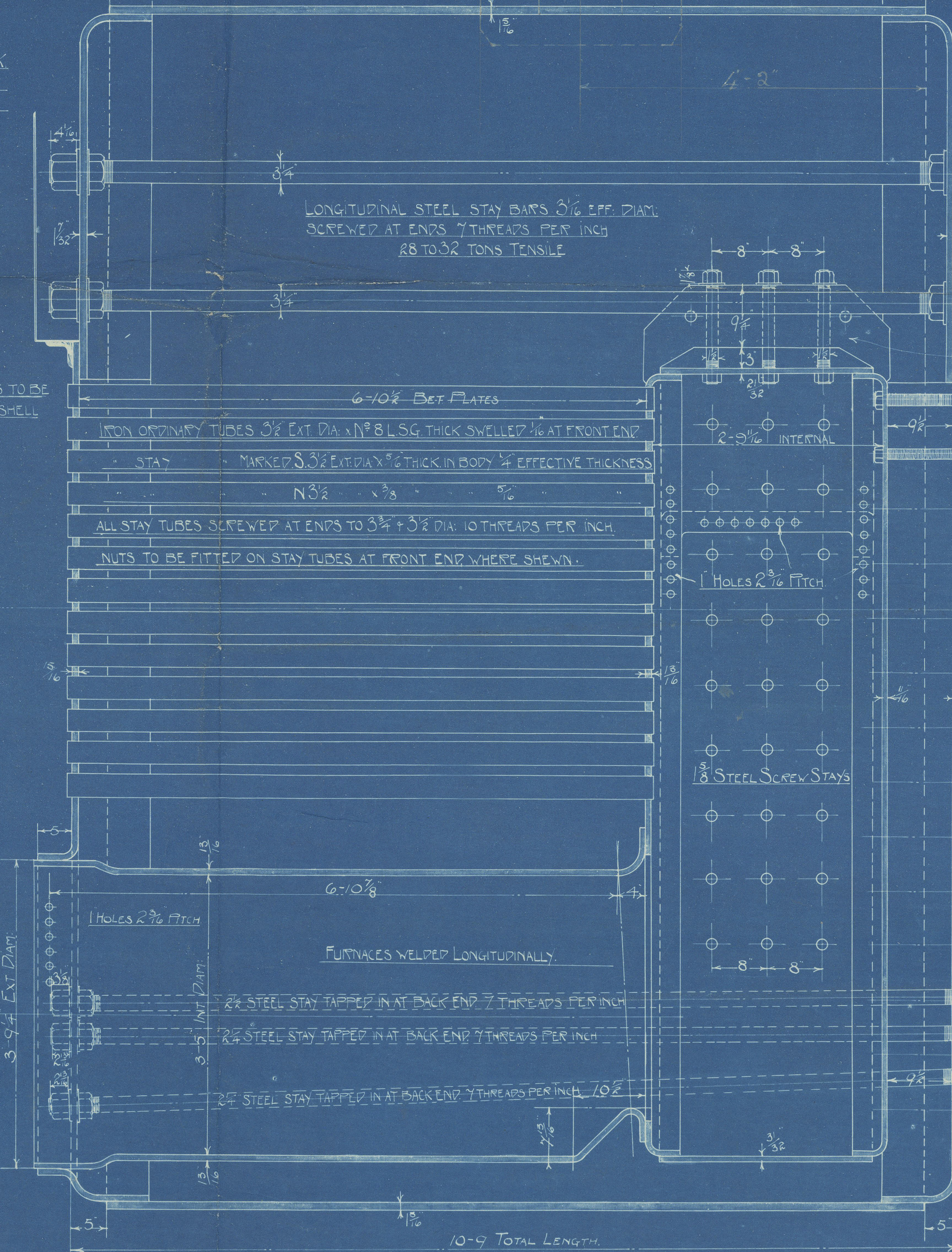
| | |
|--------------------------------|------------|
| LENGTH OF FIRE BARS | 5'-9" |
| AREA OF FIRE GRATE | 59 sq ft |
| DIAM OF TUBES OUTSIDE | 3 1/2" |
| LENGTH OF TUBES BETWEEN PLATES | 6'-10 1/2" |
| N ^o OF TUBES | 251 |
| AREA THROUGH TUBES | 12.5 sq ft |
| SURFACE OF TUBES | 1582 sq ft |
| TOTAL HEATING SURFACE | 1950 sq ft |
| WORKING PRESSURE | 180 LBS |

SHELL PLATES 1/2" THICK
INSIDE BUTT STRAPS 1/2" THICK
OUTSIDE 1/2" THICK
TENSILE 28 TO 32 TONS



MANHOLE 16" x 12" FLANGED
INWARDS 3/8" DEEP

COMB^d CHIEF WRAPPER PLATES
ROLLED 3/4" AT BOTTOM & 3/4" AT
SIDES IN ONE PLATE AS SHOWN



LONGITUDINAL STEEL STAY BARS 3/8" EFF. DIAM.
SCREWED AT ENDS 7 THREADS PER INCH
28 TO 32 TONS TENSILE

6'-10 1/2" BET PLATES

IRON OR STEEL TUBES 3/8" EXT. DIA. x 1/8" LSG. THICK SWELLED 1/4" AT FRONT END

STAY MARKED 3/8" EXT. DIA. x 1/8" LSG. THICK IN BODY 1/4" EFFECTIVE THICKNESS

N^o 32 x 1 1/8" x 1/2"

ALL STAY TUBES SCREWED AT ENDS TO 3/4" x 3/8" DIA. 10 THREADS PER INCH

NUTS TO BE FITTED ON STAY TUBES AT FRONT END WHERE SHOWN

1" HOLES 2 1/2" PITCH

1/8" STEEL SCREW STAYS

6'-7 1/2"

FURNACES WELDED LONGITUDINALLY

2 1/2" STEEL STAY TAPPED IN AT BACK END 7 THREADS PER INCH

2 1/4" STEEL STAY TAPPED IN AT BACK END 7 THREADS PER INCH

2 1/2" STEEL STAY TAPPED IN AT BACK END 7 THREADS PER INCH

10'-9" TOTAL LENGTH

DOUBLE STEEL GIRDERS
9 1/2" x 1/2" THICK
RIVETED TOGETHER

1/8" SCREW STAYS
SHOWN THUS

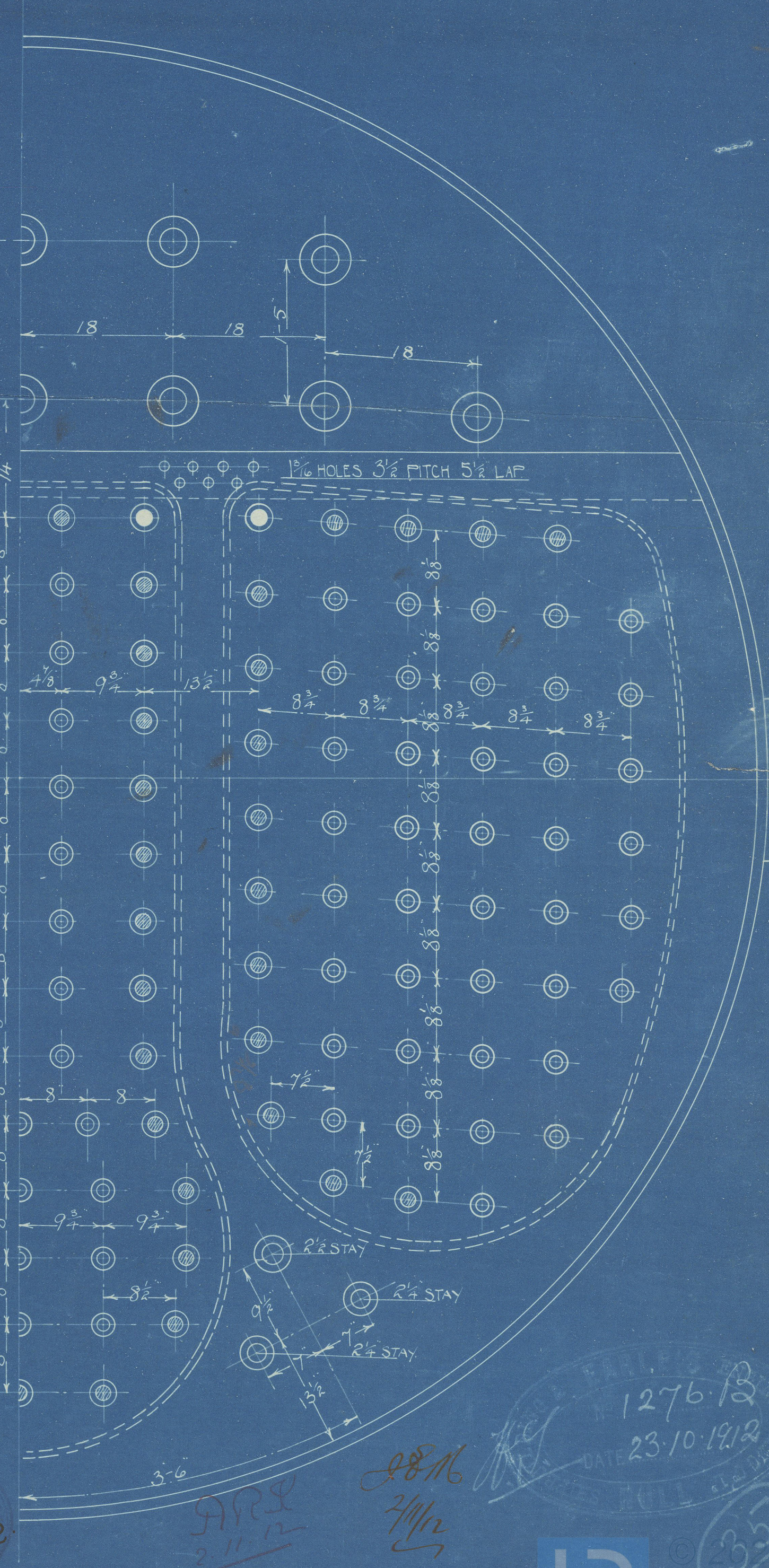
1/4" SCREW STAYS
SHOWN THUS

3/8" SCREW STAYS
SHOWN THUS

ALL SCREWED
10 THREADS PER INCH

1281.13
26.10.1912

Lloyd's



N^o A165

1276.13
23.10.1912

Lloyd's Register Foundation

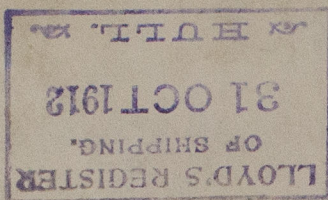
Lloyds.



© 2020

Lloyds Register
Foundation

W928-0088



EARLE'S S.B. & E.C.

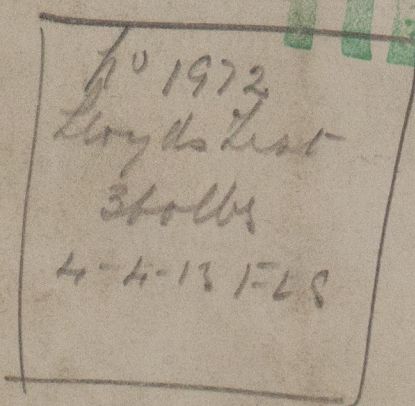
N° A 165

WORKING PRESSURE

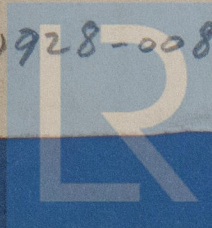
180 lbs PER Sq. IN.

to Darnes

Hull Report No. 26515



W928-0088 © 2010



Lloyd's Register
Foundation