

BOILERS. N° 1060. 3 OFF FOR MESSRS. JOHN PRIESTMAN & C^{OS} S.S. N° 263

FITTED WITH FORCED DRAUGHT

WORKING PRESSURE = 180 LBS PER SQ INCH TEST PRESSURE = 360 LBS PER SQ INCH TO LLOYD'S REQUIREMENTS

ALL PLATES, STAYS & RIVETS OF STEEL TUBES OF IRON LAP WELDED

ALL HOLES TO BE DRILLED IN POSITION

TENSILE STRENGTH OF SHELL PLATES, BUTTSTRAPS & GIRDERS TO BE NOT LESS THAN 20% NOR MORE THAN 35 TONS PER SQ INCH

| | | |
|----------------------|----|-----|
| OTHER | 26 | 20% |
| LONGITUDINAL STAYS | 28 | 20% |
| RIVETS & SCREW STAYS | 26 | 30 |

ELONGATION OF SHELL PLATES, BUTTSTRAPS, GIRDERS & LONGITUDINAL STAYS TO BE NOT LESS THAN 20% IN A LENGTH OF 8"

| | | |
|-------------|-----|---------------------------|
| OTHER | 25% | 8 TIMES DIA OF TEST PIECE |
| SCREW STAYS | 25% | 8 |
| RIVETS | 25% | 8 |

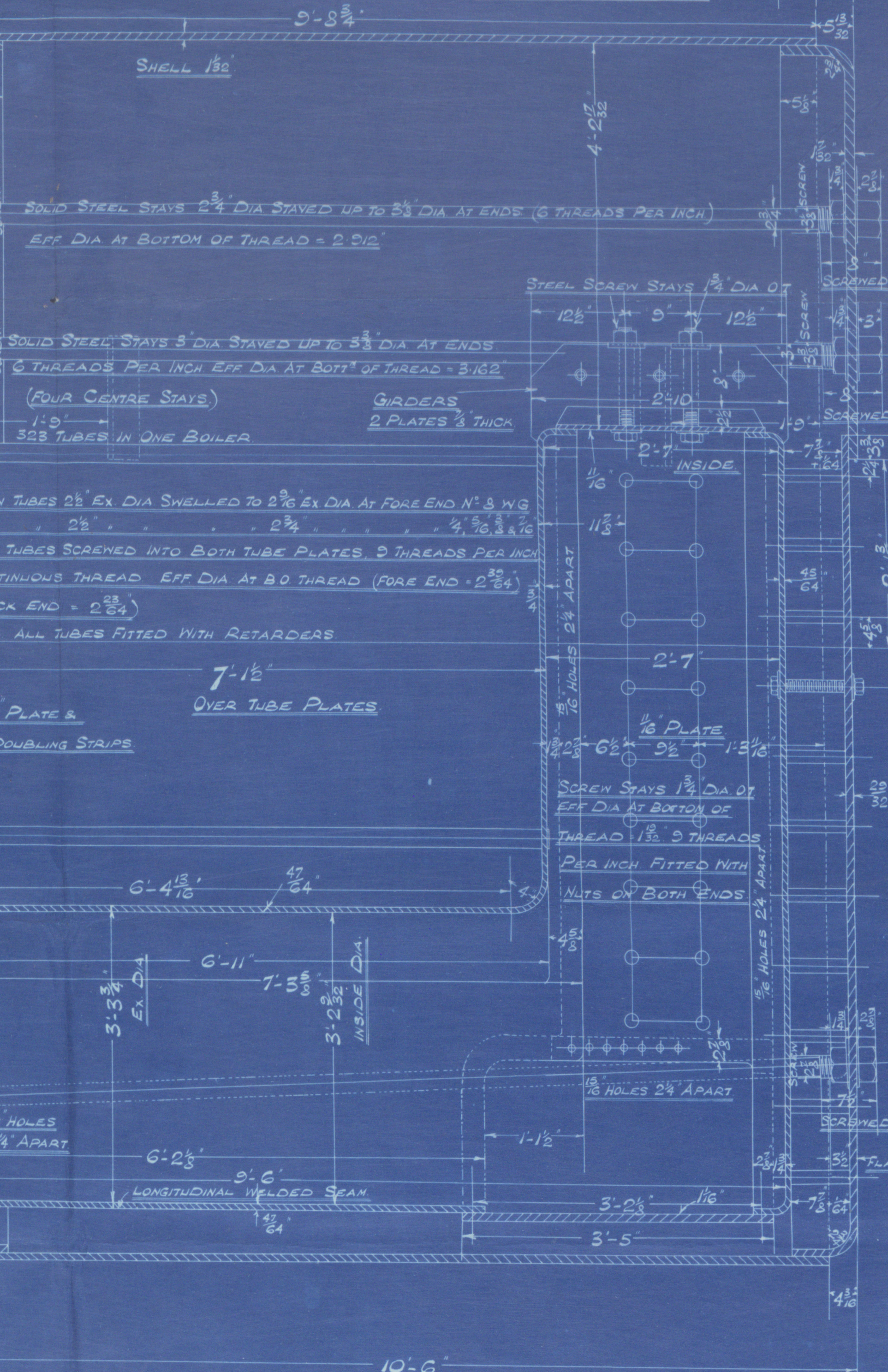
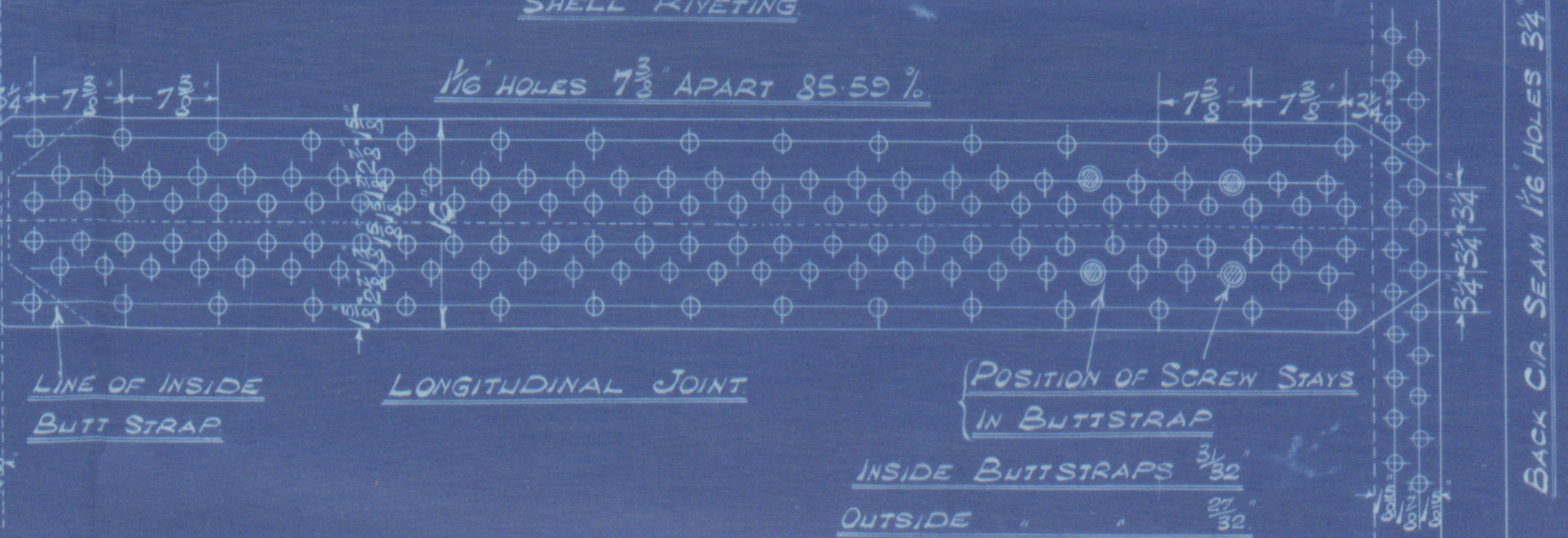
SCALE, 1" = 1 FOOT
1.5 INCH

GEORGE CLARK LIND

BUTTSTRAP

SHELL RIVETING

1/8" HOLES 7/8" APART 35.50%



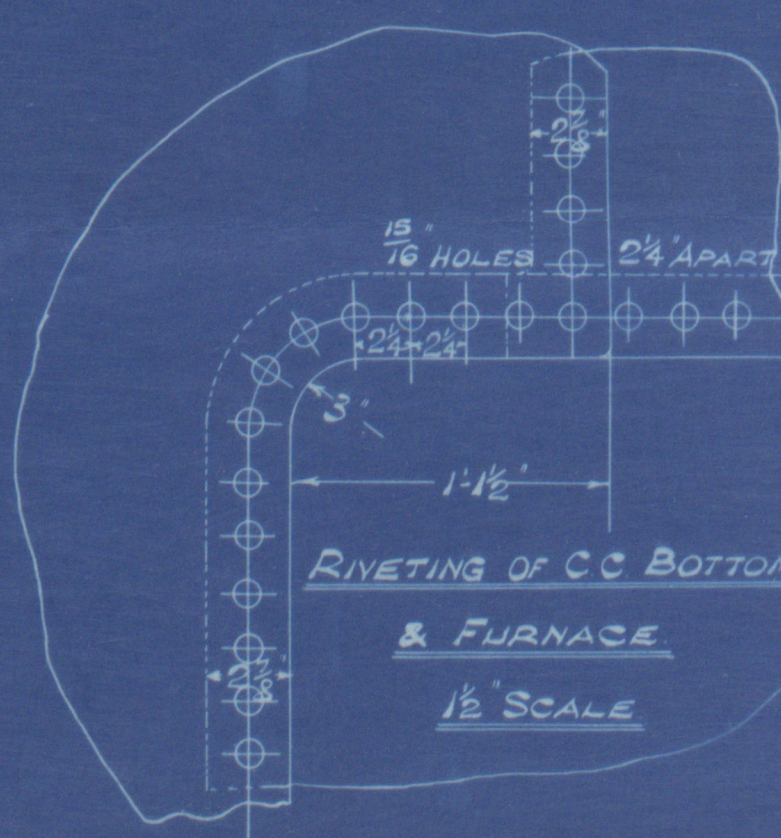
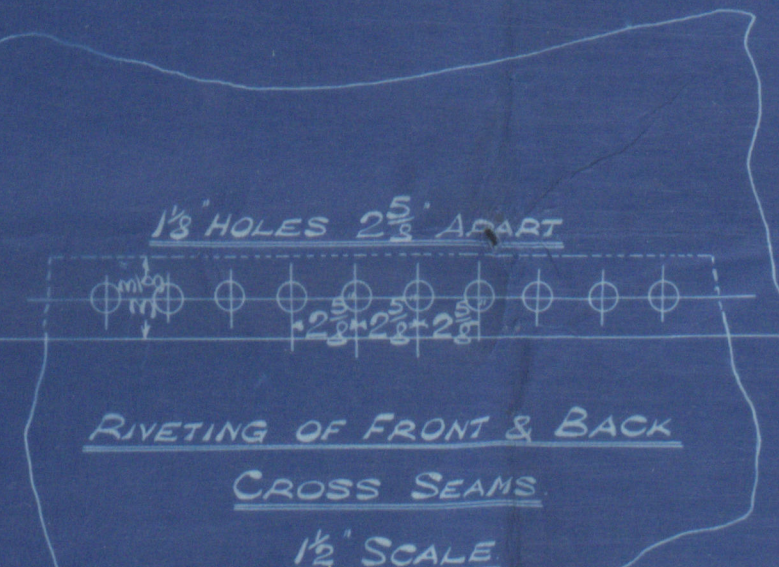
| MARK | N° | OFF | LENGTH | BREADTH | THICK | POSITION | MARK | N° | OFF | SAATCH | THICK | POSITION |
|------|----|--------|--------|---------|-------|-----------------------|------|----|-----|---------|-------|---------------|
| A | 3 | 25-62 | 9'-8" | 1/8" | | SHELLS | R | 3 | | 13'-10" | 1/8" | FRONT TOPS |
| B | 3 | 15'-33 | 9'-33" | 1/8" | | | S | 3 | | 13'-10" | 1/8" | FRONT BOTTOMS |
| C | 6 | 9'-28 | 1'-48" | 1/8" | | OUTSIDE BUTTSTRAP | | | | | | |
| D | 6 | 8'-11 | 1'-48" | 1/8" | | INSIDE | | | | | | |
| E | 3 | 5'-58 | 3'-02" | 1/8" | | BACK TUBE PLATE CENT. | | | | | | |
| G | 6 | 4'-48 | 4'-94" | 1/8" | | WINGS | | | | | | |
| H | 3 | 9'-48 | 4'-02" | 1/8" | | C. CHAMBER BACK CENT. | | | | | | |
| J | 6 | 7'-24 | 4'-94" | 1/8" | | WINGS | | | | | | |
| K | 3 | 16'-8 | 2'-44" | 1/8" | | SIDE CENT. | T | 3 | | 13'-10" | 1/8" | BACK TOP |
| L | 6 | 15'-68 | 2'-44" | 1/8" | | WINGS | | | | | | |
| N | 3 | 6'-2 | 3'-84" | 1/8" | | BOTTOM CENTRE | | | | | | |
| N | 6 | 5'-2 | 3'-84" | 1/8" | | WINGS | | | | | | |
| O | 60 | 2'-10 | 1'-14" | 1/8" | | GIRDERS | | | | | | |
| P | 6 | 4'-10 | 10" | 1/8" | | DOUBLING PLATE | | | | | | |
| Q | 9 | 10'-48 | 3'-1" | 1/8" | | FURNACES | | | | | | |

645 PLAIN TUBES 2 1/2" EX DIA SHELLED TO 2 3/8" EX DIA AT FORE END FOR LENGTH OF 5' 7 1/4" LONG - N° 8 L SWG
153 STAY 2 1/2" x 11'-6" LONG
135 2 1/2" x 11'-6" LONG
24 2 1/2" x 11'-6" LONG
12 2 1/2" x 11'-6" LONG
ALL STAY TUBES SCREWED AT BOTH ENDS 9 THREADS PER INCH CONTINUOUS THREAD FOR 5' AT SHELLED END & 1 AT THE OTHER

MAIN STAYS (STEEL)
18 BARS 2 1/2" DIA x 11'-6" LONG
17 2 1/2" x 11'-6" LONG
12 2 1/2" x 11'-6" LONG
2 2 1/2" x 11'-6" LONG

SCREW STAYS (STEEL)
50 BARS 1 1/2" DIA x 12'-0" LONG
17 1 1/2" x 12'-0" LONG
12 1 1/2" x 12'-0" LONG
2 1 1/2" x 12'-0" LONG

| HEATING SURFACES | SQ FT |
|--|-----------|
| HEATING SURFACE IN ONE TUBE | 4.57 #1 |
| 303 TUBES | 1476 |
| 3 FIRE BOXES | 173 |
| 3 FURNACES | 109 |
| BACK TUBE PLATE | 50 |
| FRONT | 26 |
| TOTAL IN ONE BOILER | 1814 |
| GRAND TOTAL IN THREE BOILERS | 5442 |
| GRATE SURFACE WITH 4'-6" FIRE BARS | 150 #1 |
| AREA THROUGH TUBES TOTAL | 23 |
| TUBE AREA | 177 |
| RATIO GRATE AREA | |
| TOTAL STEAM SPACE TO 6' ABOVE TOP OF TUBES | 1059 C FT |



MARGINAL STAYS TO BE FITTED WITH NUTS ON BOTH ENDS
SCREW STAYS 1 1/2" DIA OT 9 THREADS PER INCH EFF DIA AT BOTTOM OF THREAD
1 1/2" DIA OT 9 THREADS PER INCH EFF DIA AT BOT. = 1 1/2" DIA
TO PROJECT 3/8" ON OUTSIDE & BE CAULKED
MARGINAL STAYS MARKED THUS \otimes - 1 1/2" DIA
OVER THREAD EFF DIA AT BOT. = 1 1/2" DIA
9 THREADS PER INCH STAYS MARKED THUS \otimes
2" DIA OT 9 THREADS PER INCH EFF DIA AT BOT. = 1 1/2" DIA
CORNER STAYS THUS \otimes 2 1/2" DIA OT

N° 1060.
LND-0092

SUNDERLAND

GEORGE CLARK L^r

(3) BOILERS N^o-1060

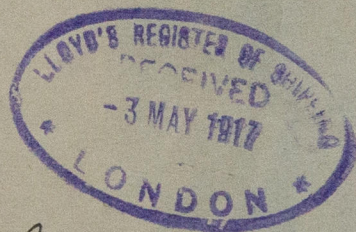
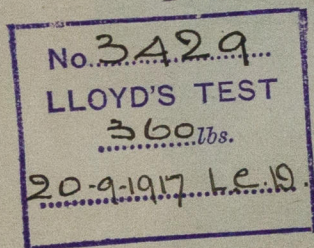
WP = 180 LBS

(AMENDED PLAN)

JOHN PRIESTMAN & CO

S/S N^o 263

1/2 "Embiricos Nicolaos"



Sunderland

SUNDERLAND RPT. No. 27211

RETAIL © 2019

Lloyd's Register
Foundation

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