

TESTS FOR MATERIAL

| DESCRIPTION OF MATERIAL | MINIMUM ULTIMATE TENSILE STRENGTH TONS PER SQ. IN. | MINIMUM ULTIMATE TENSILE STRENGTH TONS PER SQ. IN. | MINIMUM ELONGATION PER CENT. |
|--|--|--|------------------------------|
| SHELL PLATES, BUTT STRAPS & GINDER STAY PLATES | 28 | 32 | 20% IN 8 IN. |
| ALL OTHER PLATES & FURNACES | 26 | 30 | 20% IN 8 IN. |
| LONGITUDINAL STAYS | 28 | 32 | 20% IN 8 IN. |
| SCREEN STAYS FOR COMBUSTION CHAMBER | 26 | 30 | 20% IN 8 IN. |
| SUPPORTING STAYS FOR GINDER STAYS | 26 | 30 | 20% IN 8 IN. |
| PIVET BARS | 26 | 30 | 20% IN 8 IN. |

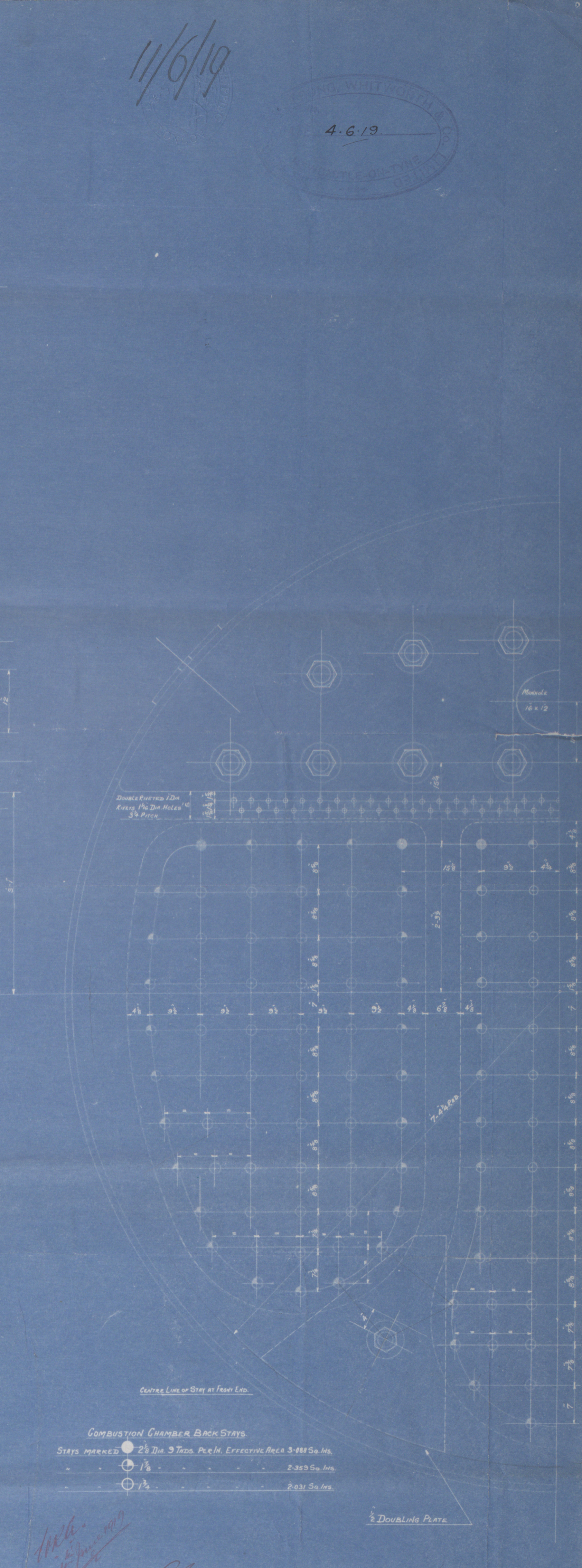
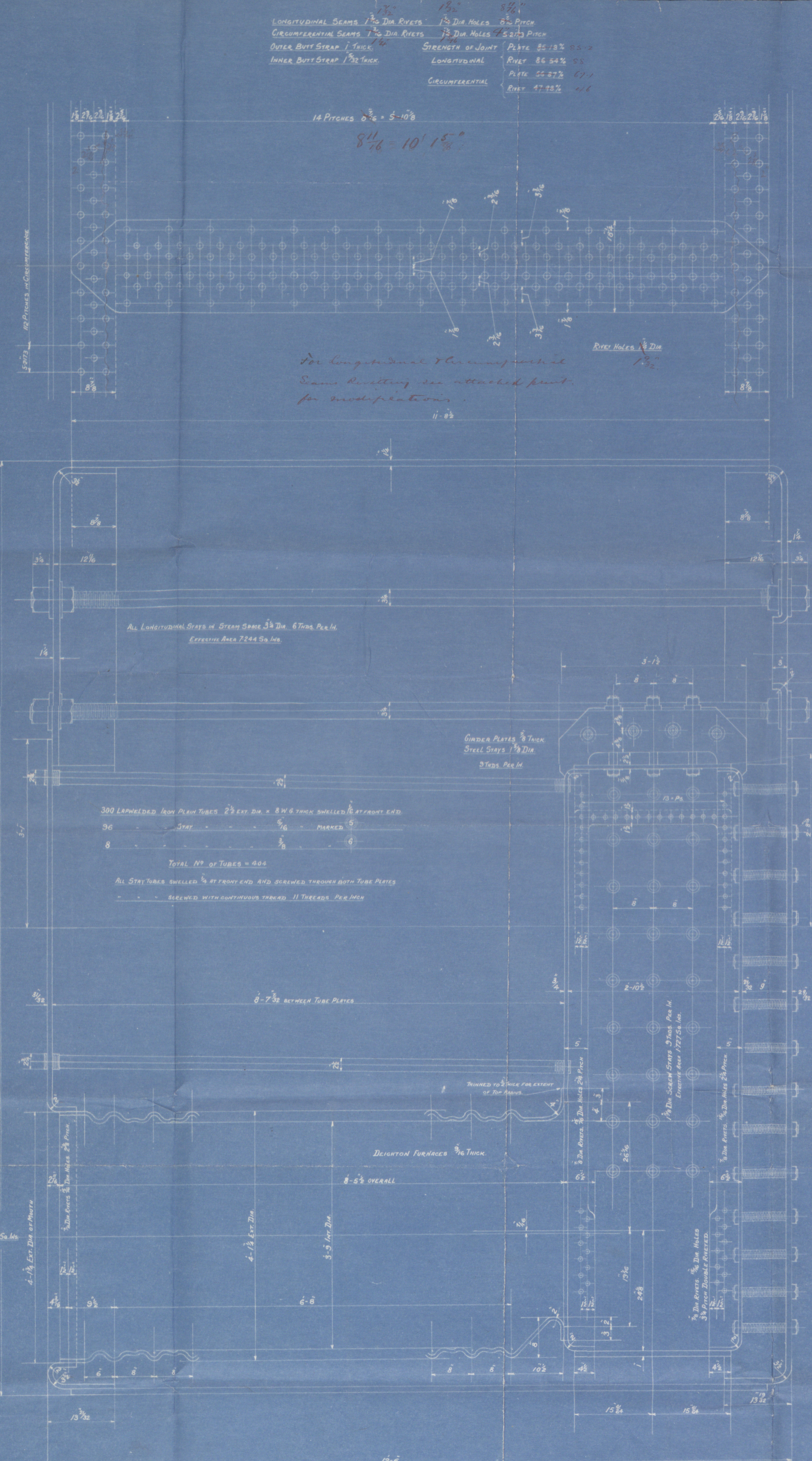
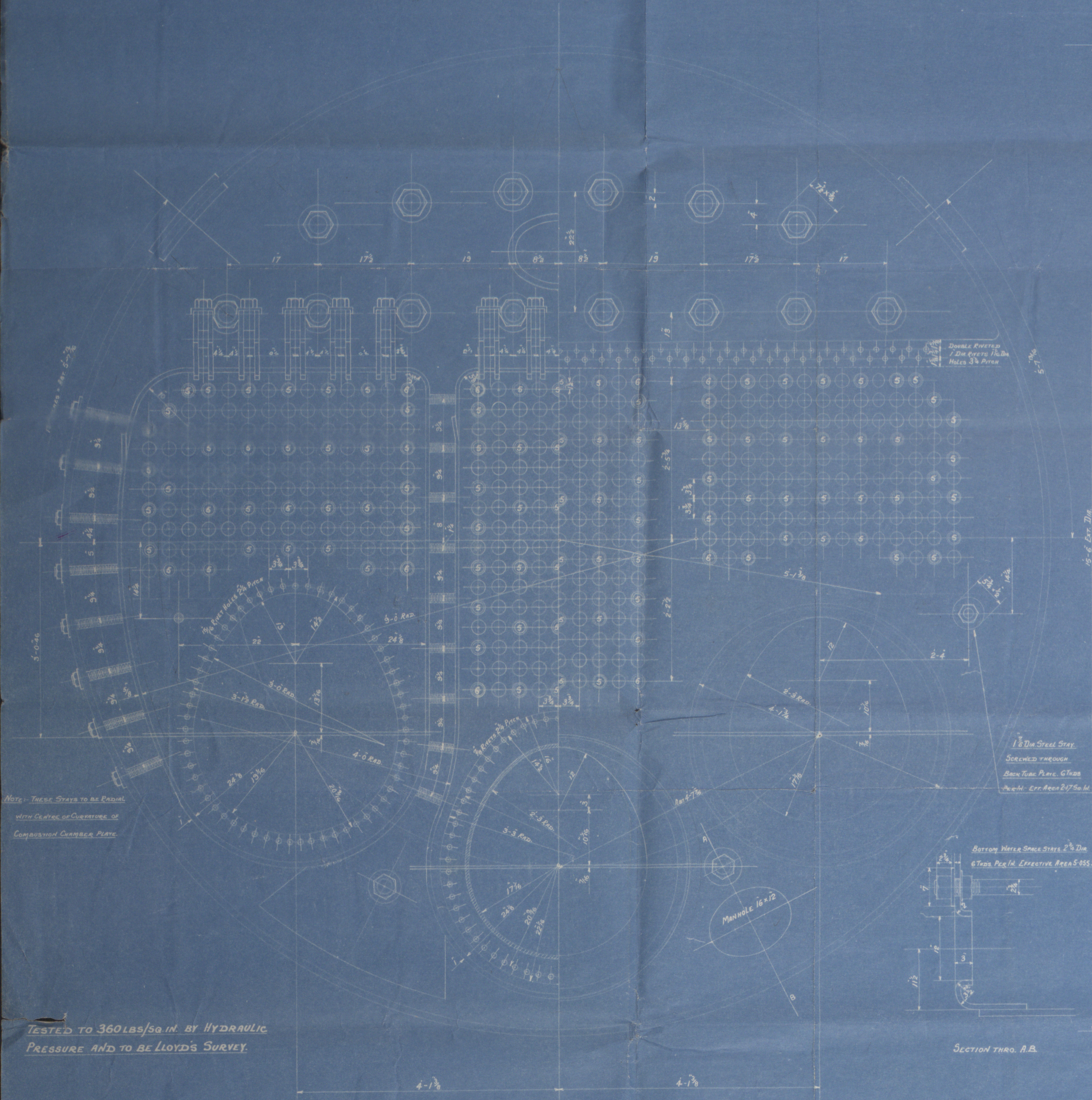
SHEARING STRENGTH OF PIVETS 20 TONS/IN.

| HEATING SURFACE | Sq. Ft. |
|---|---------|
| TUBES 2 1/2" EXT. DIA. X 8'-7 1/2" LONG X 404 | 2269 |
| FURNACES | 172 |
| COMBUSTION CHAMBER CENTRE SIDES & TOP | 56 |
| WINGS | 92 |
| CENTRE BACK PLATE | 28 |
| WINGS | 52 |
| BACK TUBE PLATE CENTRE | 16 |
| WINGS | 30 |
| TOTAL | 2715 |

LONGITUDINAL SEAMS 1 3/4" DIA. PIVETS 1 3/4" DIA. HOLES 1 3/4" DIA. PIVETS
CIRCUMFERENTIAL SEAMS 1 3/4" DIA. PIVETS 1 3/4" DIA. HOLES 1 3/4" DIA. PIVETS
OUTER BUTT STRAP 1 3/4" THICK STRENGTH OF JOINT PLATE 85.18% SS
INNER BUTT STRAP 1 3/4" THICK LONGITUDINAL RIVET 86.54% SS
CIRCUMFERENTIAL RIVET 87.75% SS

11/6/19

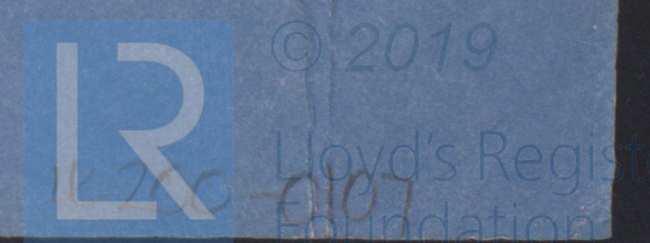
4-6-19



ORDER & W.N^o /M.E.13/D.2-D6.

MARINE MULTITUBULAR BOILER
15'-6" EXT. DIA. X 12'-6" LONG. WORKING PRESSURE 180 LBS/SQ. IN.
SCALE 1/2"

DRG N^o M. 35299



See by Armstrong Whitworth 163.

Main Boiler No 18

a Sympies

for

No 966 vessel

180 lbs working pressure 180 lbs. working pressure

180 lbs. working pressure

by

See by Armstrong Whitworth 163.

for their No 966 vessel.

180 lbs. working pressure

Navemar

S. S. FROGNER

NEWCASTLE ON TYNE.

Report No. 44,944.

66253 N

W200-0107



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