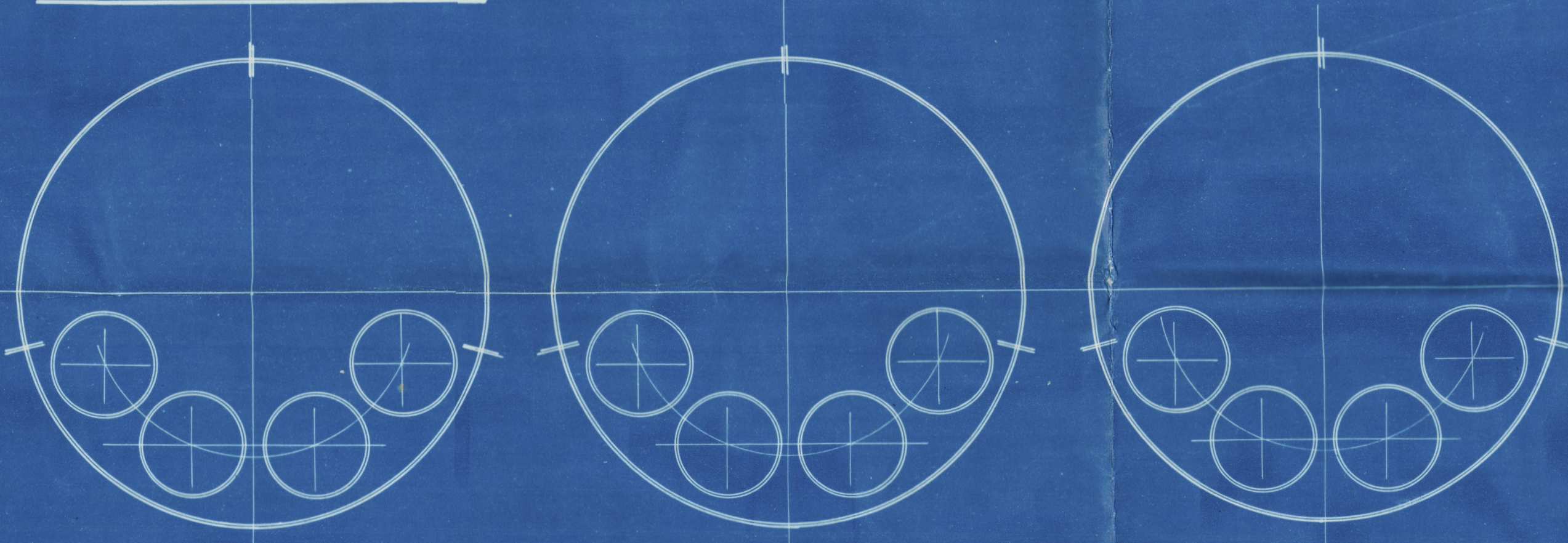


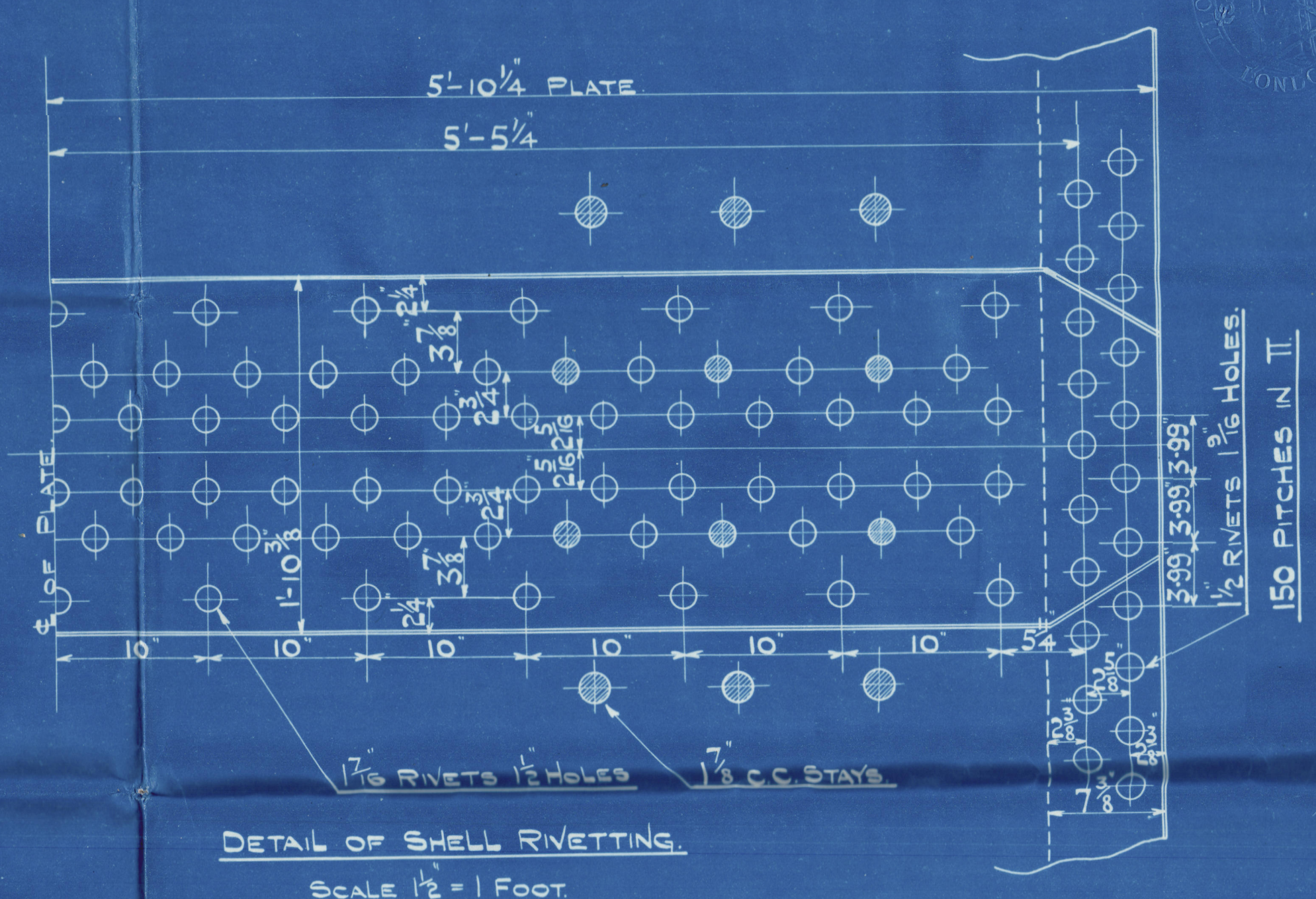
N^o 12.747.



POSITION OF BUTT STRAPS & MANHOLE DOORS.
LOOKING ON FURNACE END.

PARTICULARS	
HEATING SURFACE IN 428 TUBES	2311 #
" IN 4 COMB CHS	376 "
" 4 FURNACES	223 "
TOTAL	2910 "
GRATE SURFACE 5'-6" BARS	71.5 "
AREA THRO' TUBES	10 "
RATIO HEATING SURFACE - GRATE SURFACE	4.075
RATIO GRATE SURFACE - AREA THRO' TUBES	7.15
STEAM SPACE CUBIC FEET	530
WEIGHT OF WATER AT WORKING LEVEL & TEMPERATURE	26 TONS

3 BOILERS.	
HEATING SURFACE	8730 #
GRATE SURFACE	214.5 "



DETAIL OF SHELL RIVETTING.
SCALE 1/2" = 1 FOOT.

RIVETTING ETC.

LONGITUDINAL SEAMS (DOUBLE BUTT STRAPS TREBLE RIVETTED)
SHELL 1 7/8", RIVETS 1 1/8", HOLES 1 1/2", PITCH 10". PLATE % 85.0% RIVET % 91.4
BUTT STRAPS INNER 1 1/8", OUTER 1 1/8" THICK. SHELL PLATES & BUTT STRAPS TO HAVE A TENSILE STRENGTH OF 29 TO 33 TONS PER SQ. INCH.

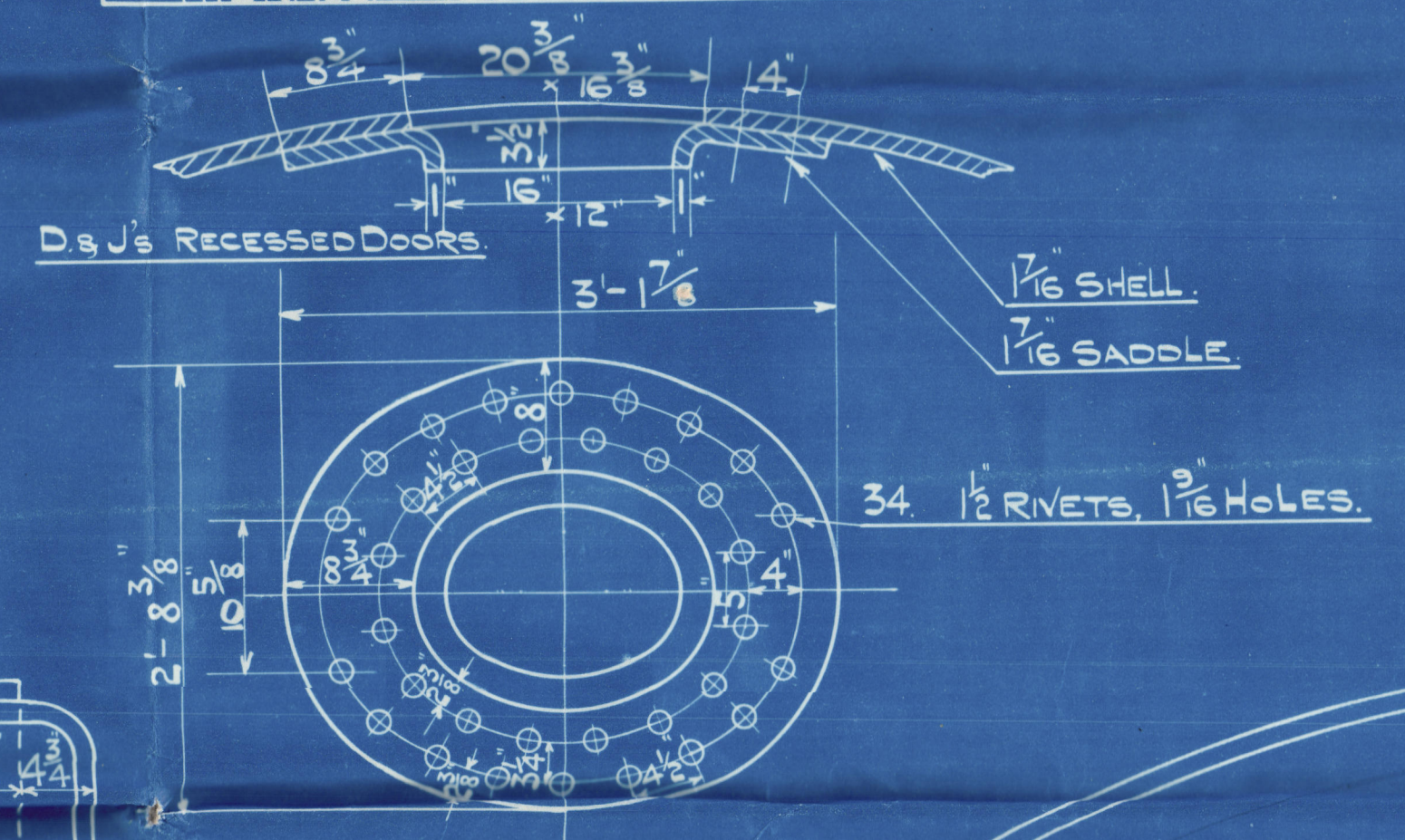
CIRCUMFERENTIAL SEAMS (DOUBLE RIVETTED LAP)
RIVETS 1 1/8", HOLES 1 1/8", PITCH 3.99. PLATE % 60.9% RIVET % 56.8

ALL HOLES DRILLED IN PLACE.

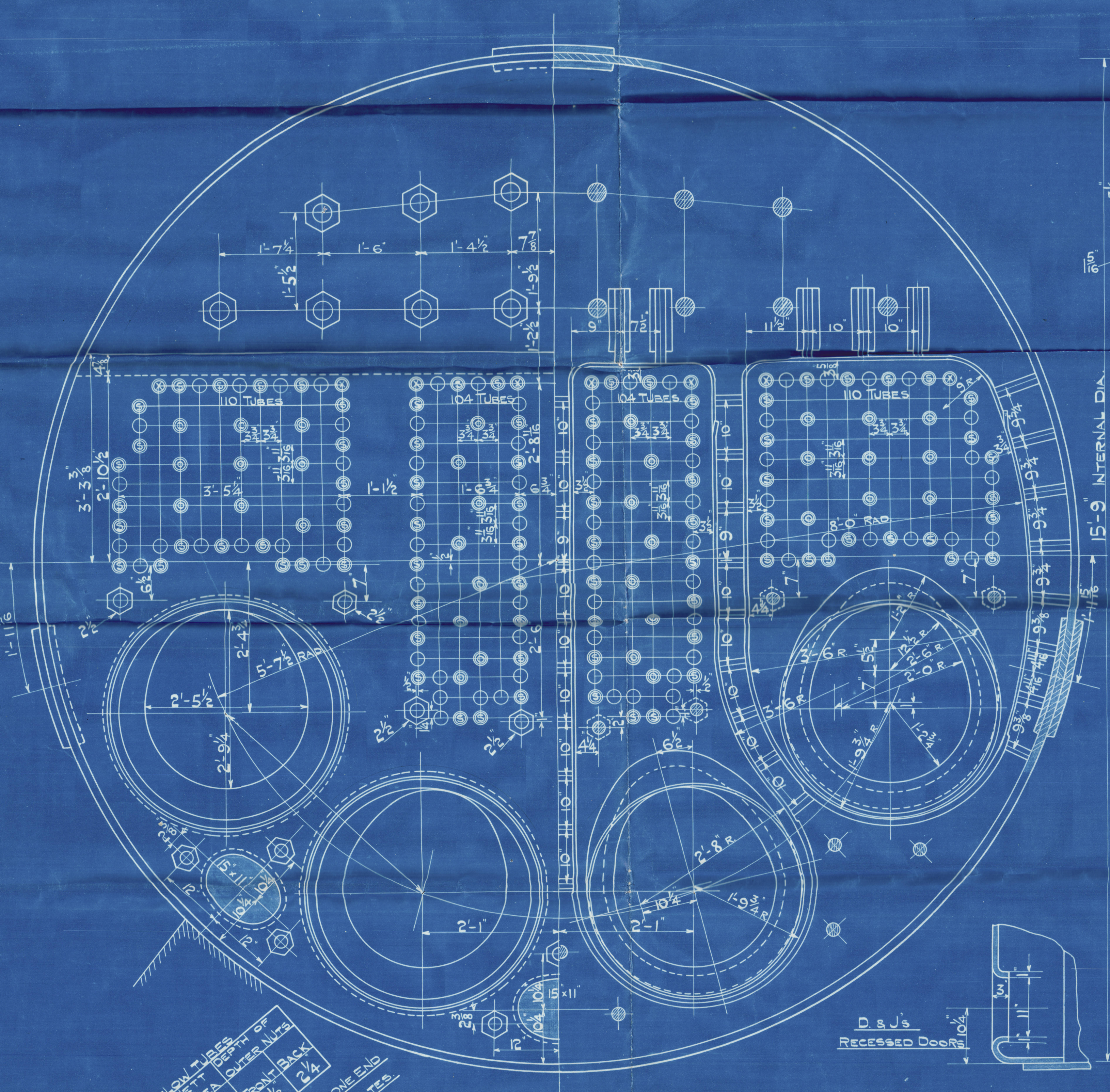
BOILER STEEL TUBES & COMBUSTION CH. GIRDERS OF IRON.

UNDER LLOYD'S SURVEY FOR A WORKING PRESSURE OF 215 LBS. PER SQ. IN.

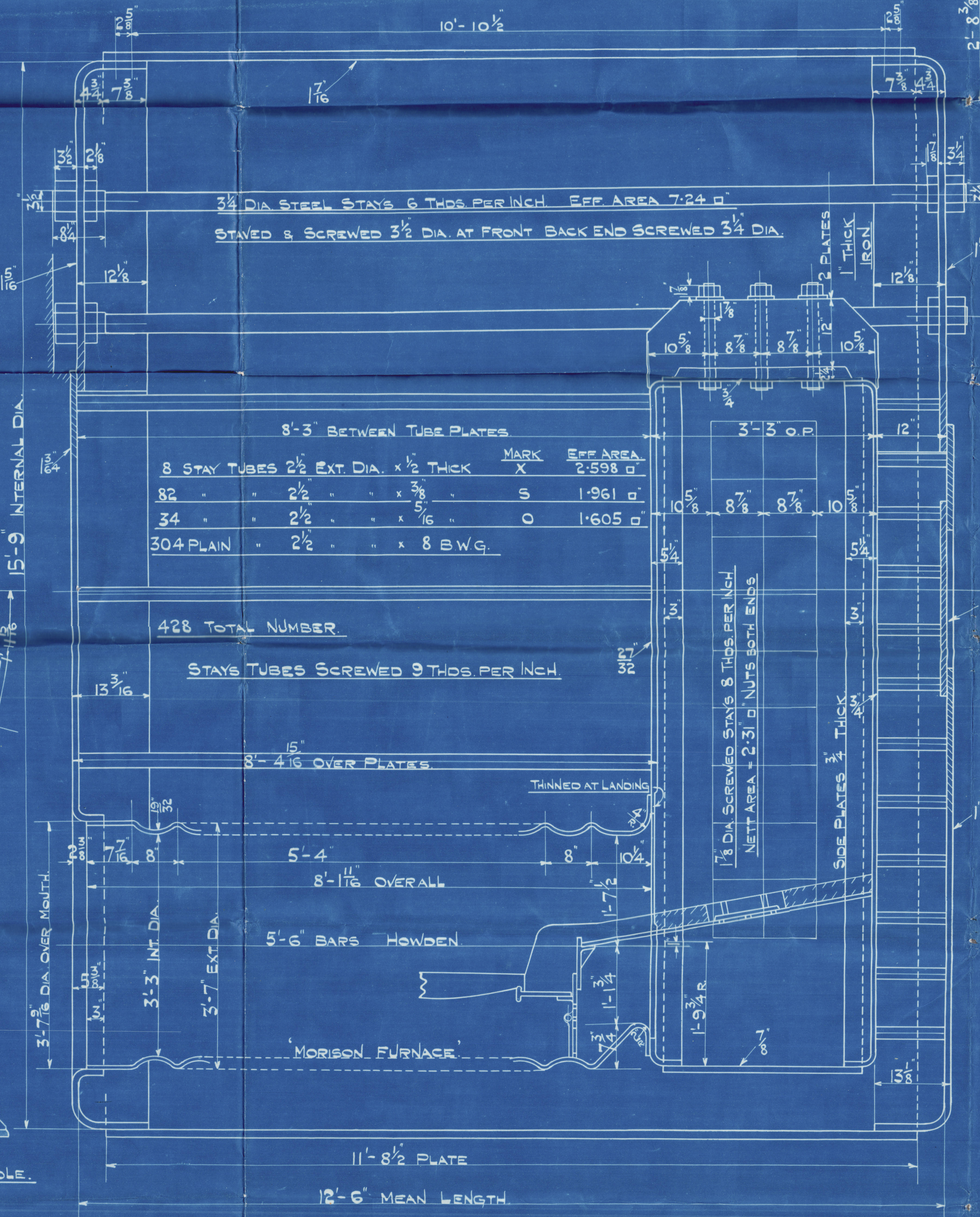
HYDRAULIC TEST PRESSURE 373 LBS. PER SQ. IN.



RIVETTING AT SHELL MANHOLE.



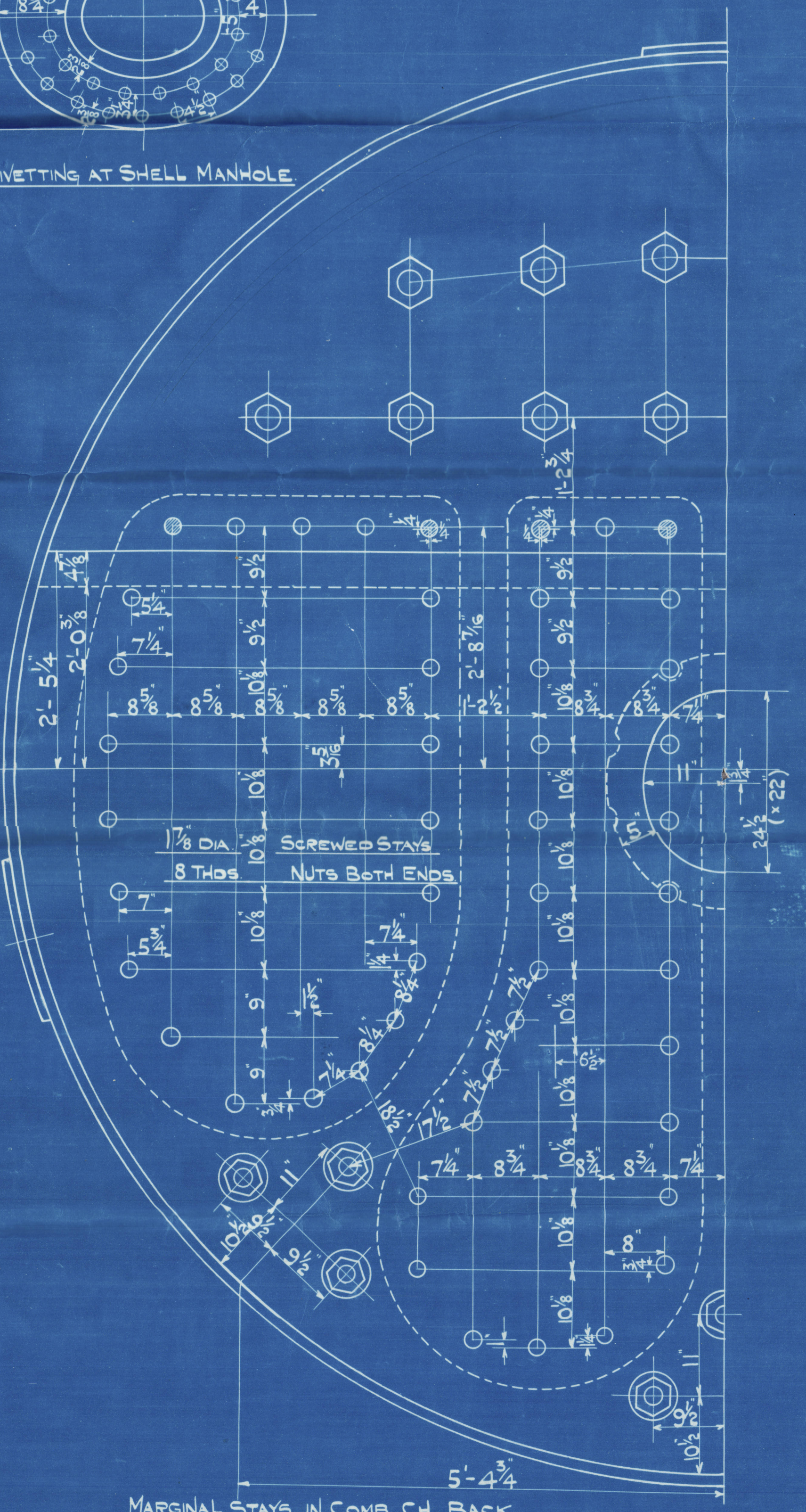
DIA OF STAYS BELOW TUBES WITH EFF. AREA OF
FRONT BACK 2 1/2" 8 3'-4.35 D 2 1/2" 2 1/4"
2 1/4" DIA STAYS STAYED UP TO 2 1/2" AT ONE END
AND SCREWED THRO' BOTH PLATES



3 MAIN BOILERS FOR N^o 527.

SCALE 1" = 1 FOOT.

REPEAT FOR N^o 528. - REPEAT FOR N^o 529.
REPEAT FOR N^o 530. - REPEAT FOR N^o 531.
REPEAT FOR N^o 532.



MARGINAL STAYS IN COMB CH BACK
MARKED @ 2 1/4" DIA. 8 THDS PER INCH EFF. AREA 3.43 D

ALL TO HAVE NUTS BOTH ENDS.



W.W. 7-8-20
CCL 26-330
3/1/20
W-514-0023

527-S-9-30-1-2

Dunsinuir & Jackson's

Engines Nos 527/8/9/530/1/2

Three main Boilers

working pressure 215 lbs per sq inch

For

Ayrshire Dockyard Vessels

Nos 490 to 495.

For the Clan Line

& Clan Macfarlane

Eng.
No. 527

GLASGOW REPORT No. 42308

"Clan Macfarlane"

Eng No 528

GLASGOW REPORT No. 42743

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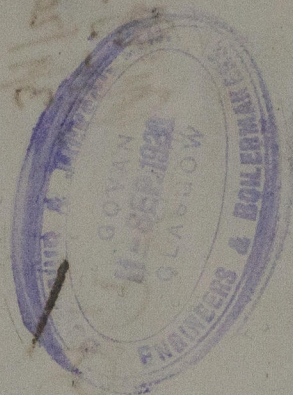
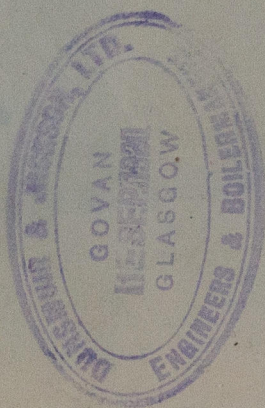
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