

21/1/25

SURFACES.	ONE BOILER.	3 BOILERS.
TUBES.	1760 sq. ft.	5280 sq. ft.
COMBUSTION CHAMBERS.	198 " "	594 " "
TUBE PLATES.	66 " "	198 " "
FURNACES.	146 " "	438 " "
TOTAL HEATING SURFACE.	2170 " "	6510 " "
GRATE AREA (5'-6" BARS).	54.6 " "	163.9 " "
STEAM SPACE.	416 cu. ft.	1248 cu. ft.
WEIGHT OF WATER.	23 TONS	69 TONS.

LIMITS OF TENSILE STRENGTH & MATERIAL.	
SHELL, BUTT STRAPS & GIRDERS.	28 TO 32 TONS
OTHER PLATES.	26 " 30 "
FURNACES.	26 " 30 "
MAIN STAYS.	28 " 32 "
RIVET BARS.	26 " 30 "
SIEMENS-MARTIN STEEL.	

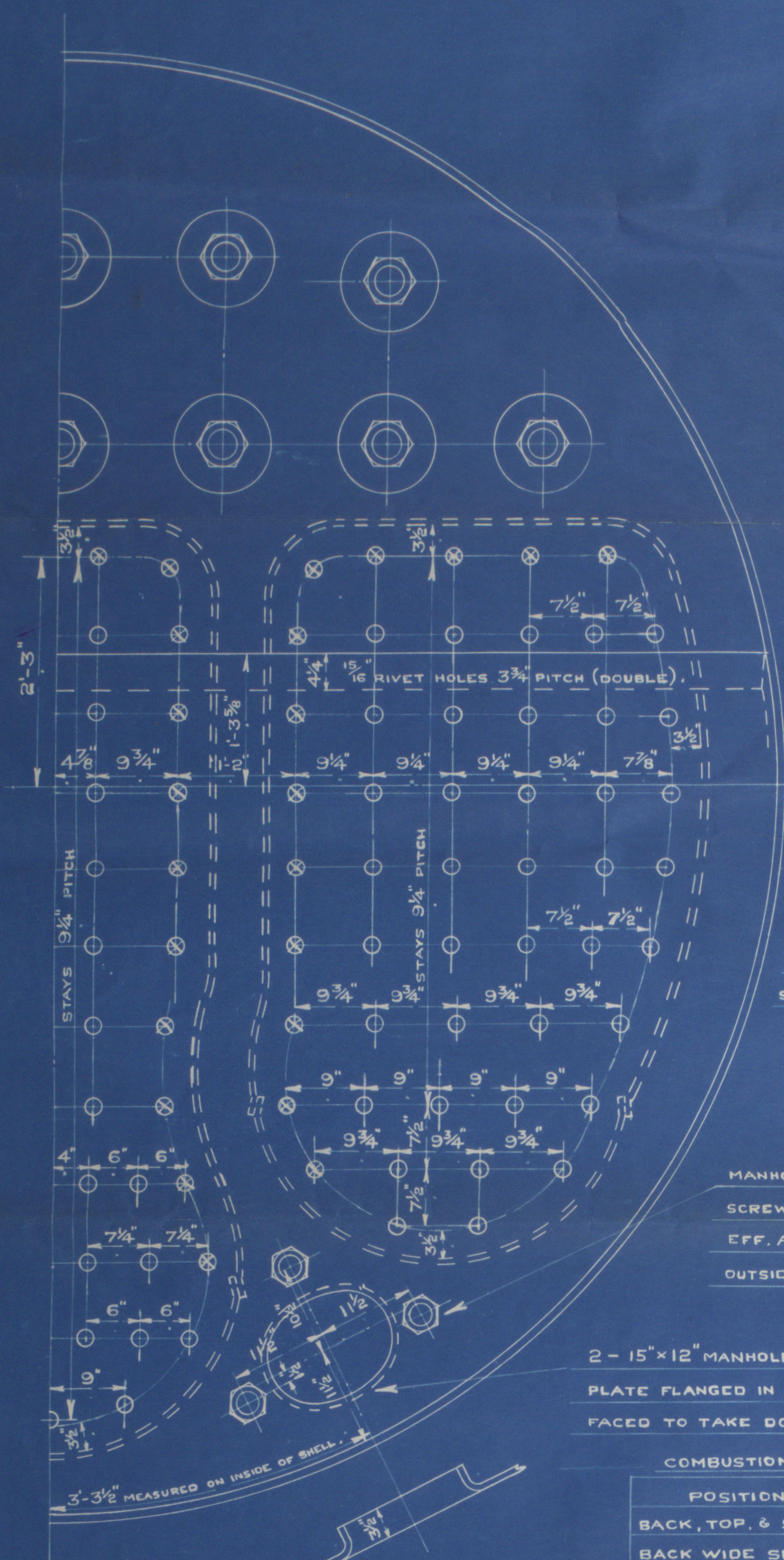
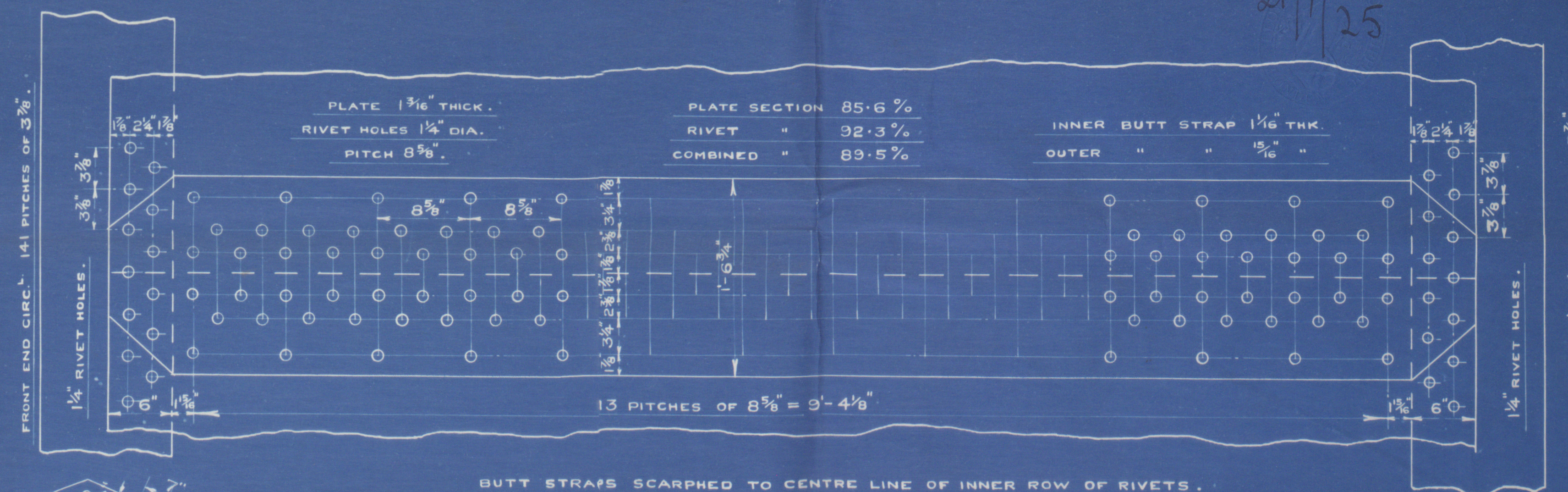
LLOYD'S HEATING SURFACE = 6450 SQ. FT.

ALL RIVET HOLES DRILLED IN PLACE.

WORKING PRESSURE = 180 LBS./sq. in.
TEST " = 320 "

TO PASS LLOYD'S SURVEY.

MANHOLE COMPENSATING PLATE.
PLATE 5/8" AT LONGITUDINAL EDGE 85.7.
1 1/8" THICK. 1 1/4" RIVET HOLES.



2 1/2" DIA. STEEL STAY
SCREWED 6 THDS. PER INCH.
EFF. AREA 4.11 sq. in.

MANHOLE STAYS 2 1/2" DIA. STEEL
SCREWED 6 THDS. PER INCH.
EFF. AREA 4.11 sq. in.
OUTSIDE NUT 2" DEEP. INSIDE NUT 1 3/8" DEEP.

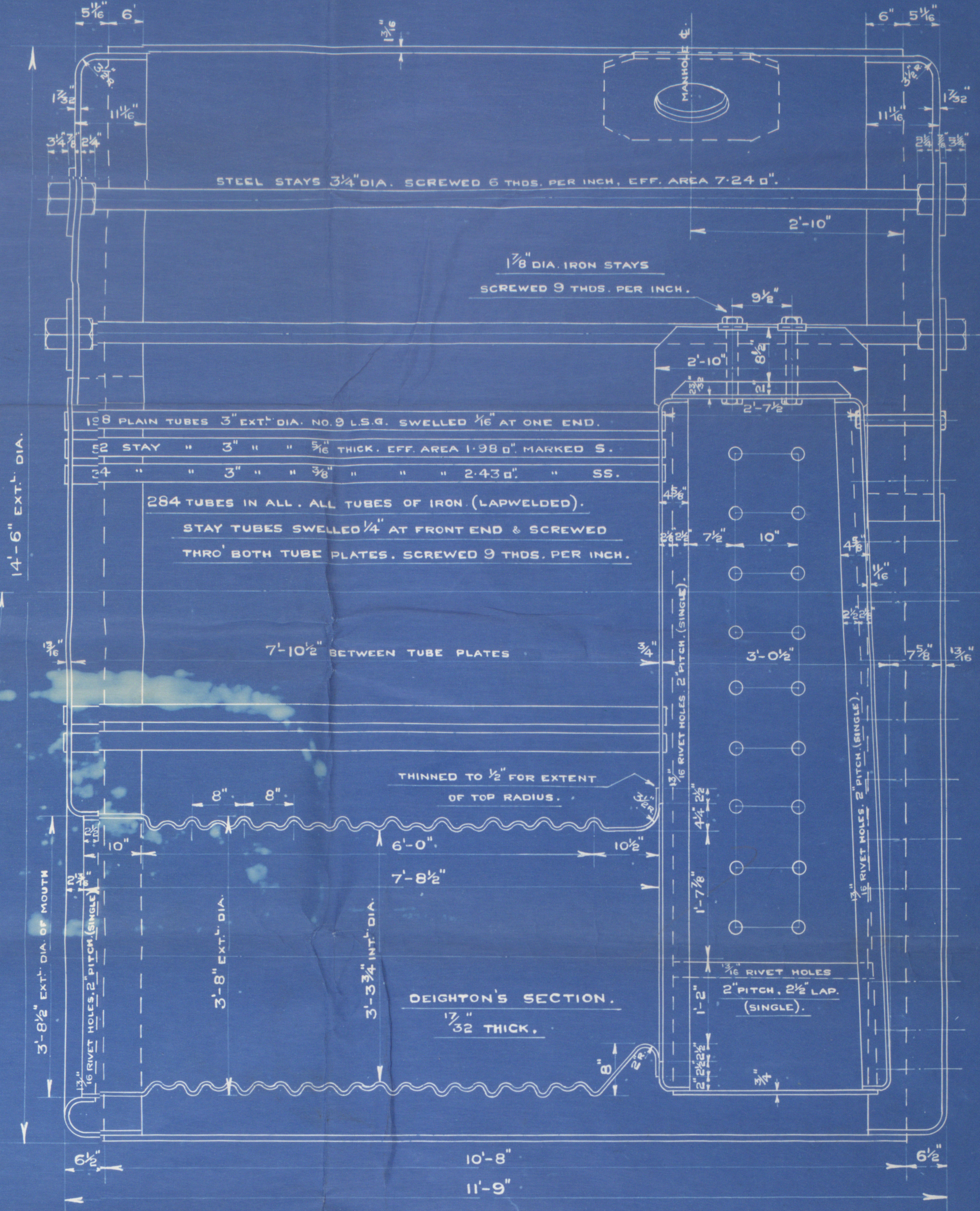
2-15"x12" MANHOLES AT BACK.
PLATE FLANGED IN & EDGE
FACED TO TAKE DOOR.

COMBUSTION CHAMBER STAYS (W. IRON).			
POSITION	MARK	DIA.	EFF. AREA
BACK, TOP, & SIDES.	○	1 7/8"	2.36 sq. in.
BACK WIDE SPACE.	⊗	2"	2.71 sq. in.
BACK TOP ROW.	⊗	2"	2.71 sq. in.

ALL SCREWED 9 THDS. PER INCH.
ALL COMBUSTION CHAMBER STAYS SCREWED THRO'
BOTH PLATES & NUTS FITTED AT EACH END, EXCEPT
STAYS FROM WING FIREBOX TO SHELL WHICH PROJECT
3/8" & ARE CAULKED.



MAIN BOILERS. ENGINE N° 480. 3 OFF.



SCALE: 1" & 1 1/2" = 1 FT.

DWG. N° 3898.

J. Readhead & Sons.
Main Boilers

J. READHEAD & SONS.

MAIN BOILERS.

480.

S.S. "Zurichmoor"

S.S. ZURICHMOOR.
NEWCASTLE ON TYNE.

Report No. 79568.



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Lloyd's Register
Foundation

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