

Approved
8/12/41

DIA OF BOILER 17'-0" EXTERNAL
LENGTH OF BOILER 11'-0" MEAN LENGTH
NUMBER OF TUBES 404
LENGTH OF TUBES 7'-0" BETWEEN PLATES
DIAMETER OF TUBES 3"
HEATING SURFACE IN TUBES 2220 ft^2
TOTAL HEATING SURFACE 3020 ft^2
DIAMETER OF SAFETY VALVES 3"
WORKING PRESSURE 215 LBS/SQ IN LLOYDS
OIL BURNING FORCED DRAUGHT

AMOS & SMITH LTD
ENGINEERS
ALBERT DOCK WORKS
HULL

PARTICULARS OF STAYING			
	DIA	THREADS/INCH	EFFECTIVE AREA
STEAMSPACE STAYS	3 1/2	6	8.48 in^2
BOTTOM STAYS	2 3/4	6	5.05 in^2
BREAST STAYS	2 1/4	6	3.26 in^2
(C) STAYS (2)	2	9	2.71 in^2
(C) STAYS (1 1/4)	1 3/4	9	2.03 in^2
STAY TUBES 1/16	3	9	2.867 in^2
STAY TUBES 3/8	3	9	2.447 in^2
STAY TUBES 5/16	3	9	1.983 in^2

LONGITUDINAL SEAMS 10 1/2" PITCH
1/2" PLATE 84.89 1/2" RIVET 85.2
COMBINED 89.84 1/2"
CIRCUMFERENTIAL SEAMS 4 1/2" PITCH
1/2" PLATE 65 1/2" RIVET 42.1

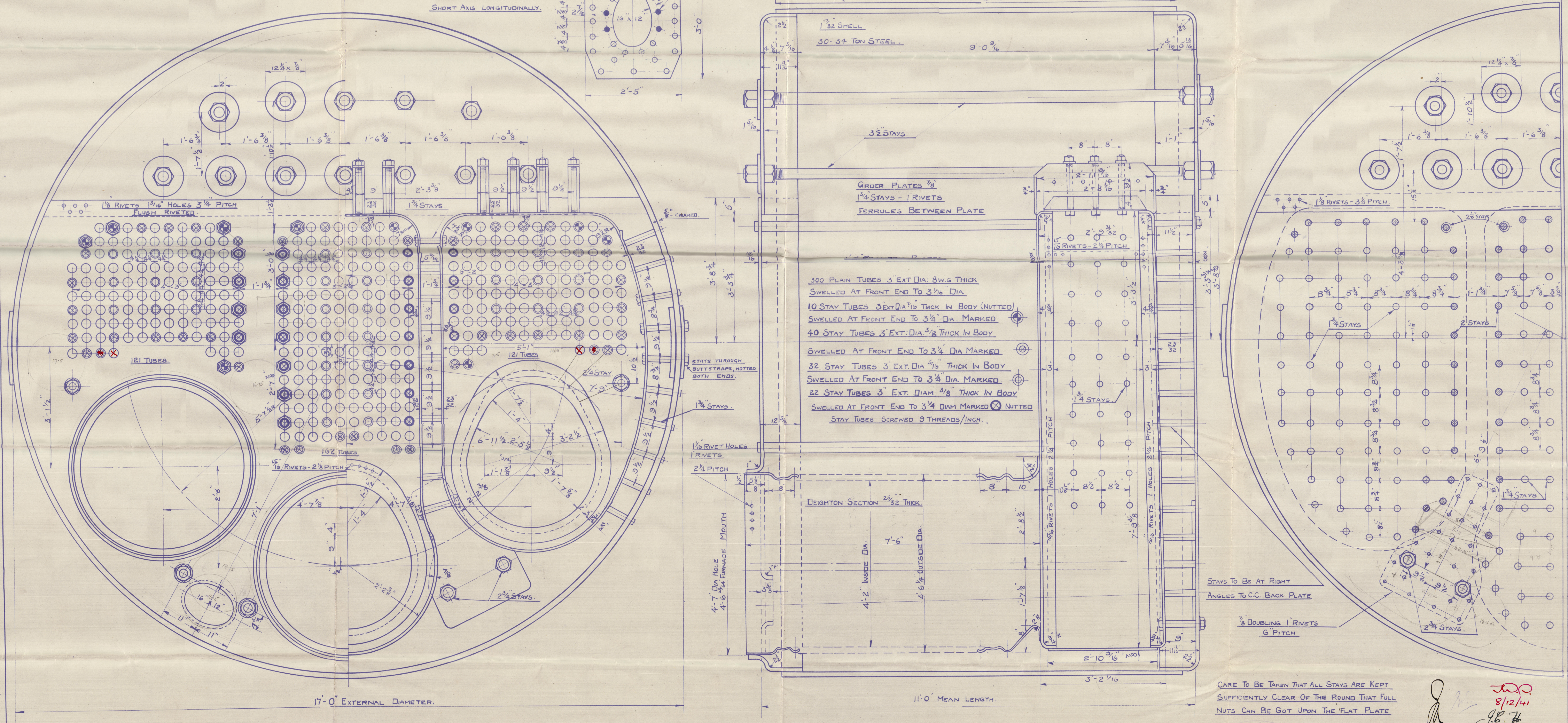
ALL RIVETS IN SHELL 1 1/2" DIA 1 1/2" HOLES
OUTSIDE BUTTS 1 1/2"
INSIDE BUTTS 1 1/2"

THESE 4 RIVETS C'S K ON
OUTSIDE OF SHELL

1 1/2" DOUBLING PLATE
1 1/2" RIVETS - 1 1/2" HOLES
FITTED INSIDE SHELL WITH
SHORT AXIS LONGITUDINALLY

STAYS THRO BUTT STRAPS
NUTTED BOTH ENDS

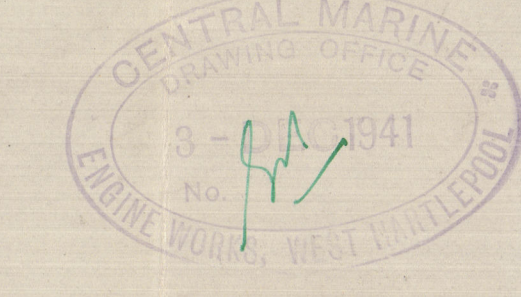
NOTE-ALL PLATES, RIVETS & STAYS OF STEEL BY THE SIEMENS MARTIN PROCESS
ALL RIVET HOLES DRILLED THROUGHOUT THE BOILER THOSE IN THE SHELL AFTER
THE PLATES ARE BENT
ALL FLANGED PLATES TO BE ANNEALED AFTER FLANGING
STAYS ARE NOT TO BE WELDED
TUBES ARE OF IRON
THE TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS TO BE BETWEEN
30 & 34 TONS/SQ IN GIRDER PLATES 20 TO 33 TONS/SQ IN
THE COMBUSTION CHAMBER STAYS ARE SCREENED INTO BOTH PLATES &
FITTED WITH A NUT AT EACH END, EXCEPT AT THE SHELL
WASHERS ON OUTSIDE OF SHELL ONLY NONE INSIDE C.C.
C.C. PLATE EDGES TO BE BEVELLED



STEEL BOILER N^o R. 354-5.

SCALE: 1" = 1 FOOT

CARE TO BE TAKEN THAT ALL STAYS ARE KEPT
SUFFICIENTLY CLEAR OF THE ROUND THAT FULL
NUTS CAN BE GOT UP ON THE 'FLAT PLATE



APPROVED BY LLOYDS

DRWG. N^o 52864A
8/12/41
J.B.H.
5/1/42

State duplicate of plan approved 6/12/39
for Amos & Smith
J.C.

Central Marine Engine Works

Boilers R. 354/5.

~~London Copy~~

Goole 387/8
Boilers.

W1185-0070

~~GREEN BOX NO 324~~
~~12~~

W Section 374

Engine Harry



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Foundation