

MINIMUM PROJECTION OF TUBES = 6 1/4"
TUBES TO BE BELL-MOUTHED UNTIL THEY ARE 6 LARGER IN DIA THAN NORMAL DIA OF TUBES
MAX DIA OF TUBE HOLES = 1 1/2 + 6 1/4"
MIN DIA OF TUBE HOLES = 1 1/2 + 6 1/4"

DIAPHRAGMS ELECTRIC WELDED
ROUND BOX & AT JOINTS.

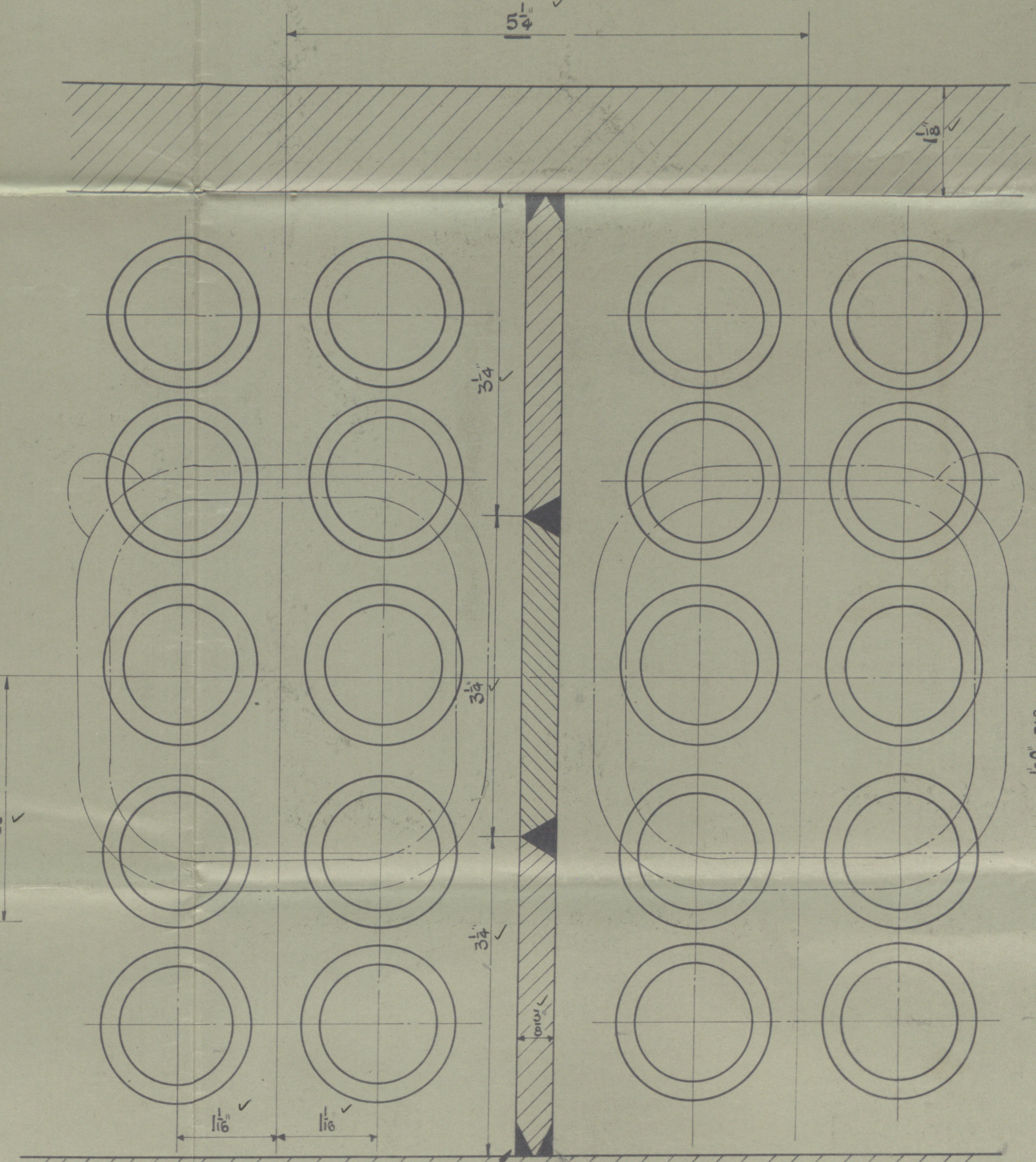
DETAIL OF DIAPHRAGM & BORING
FOR TUBES
SCALE: FULL SIZE

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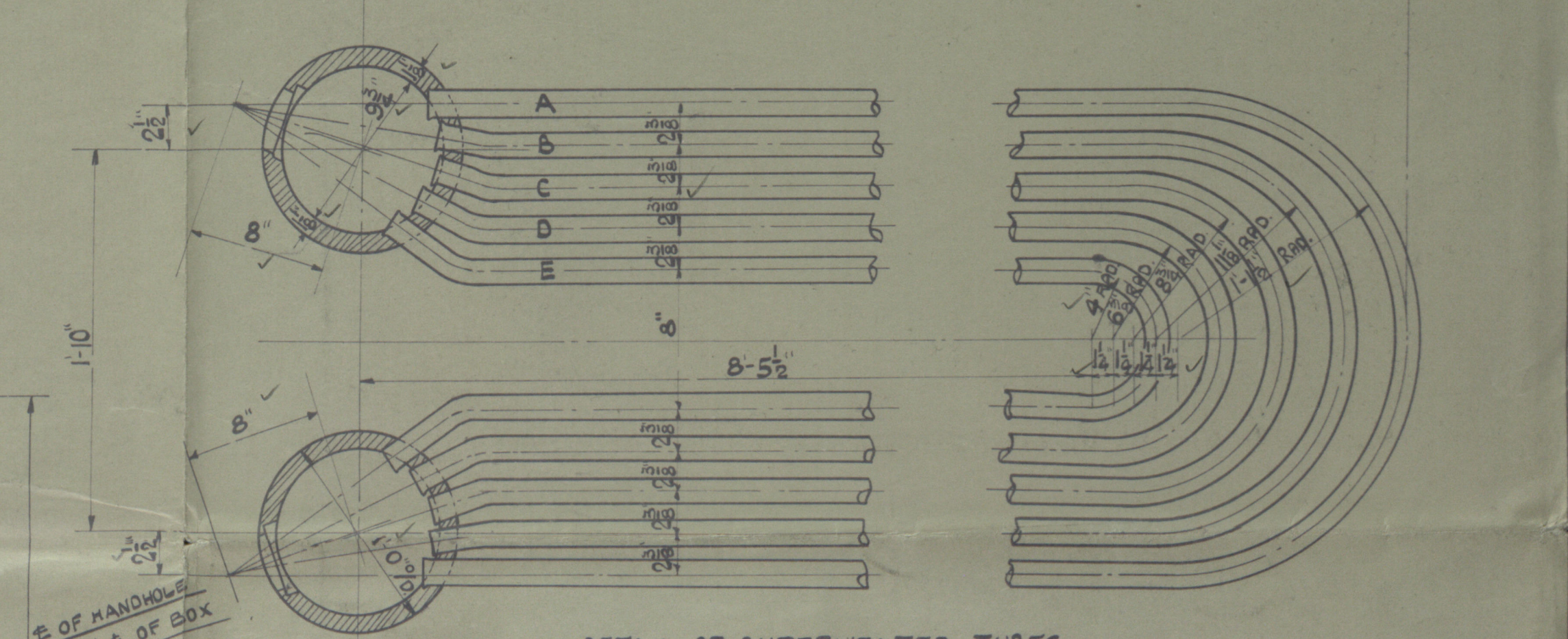
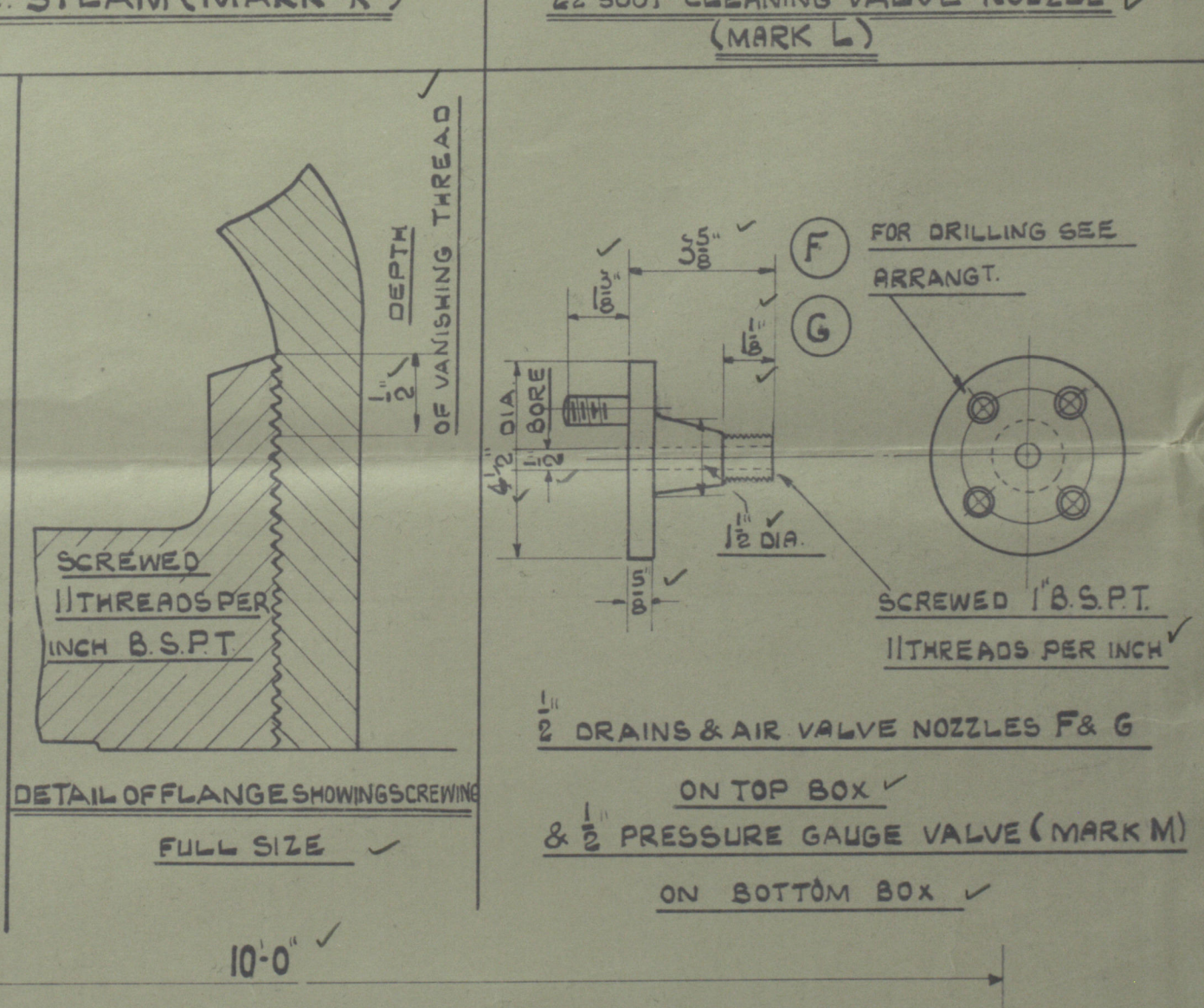
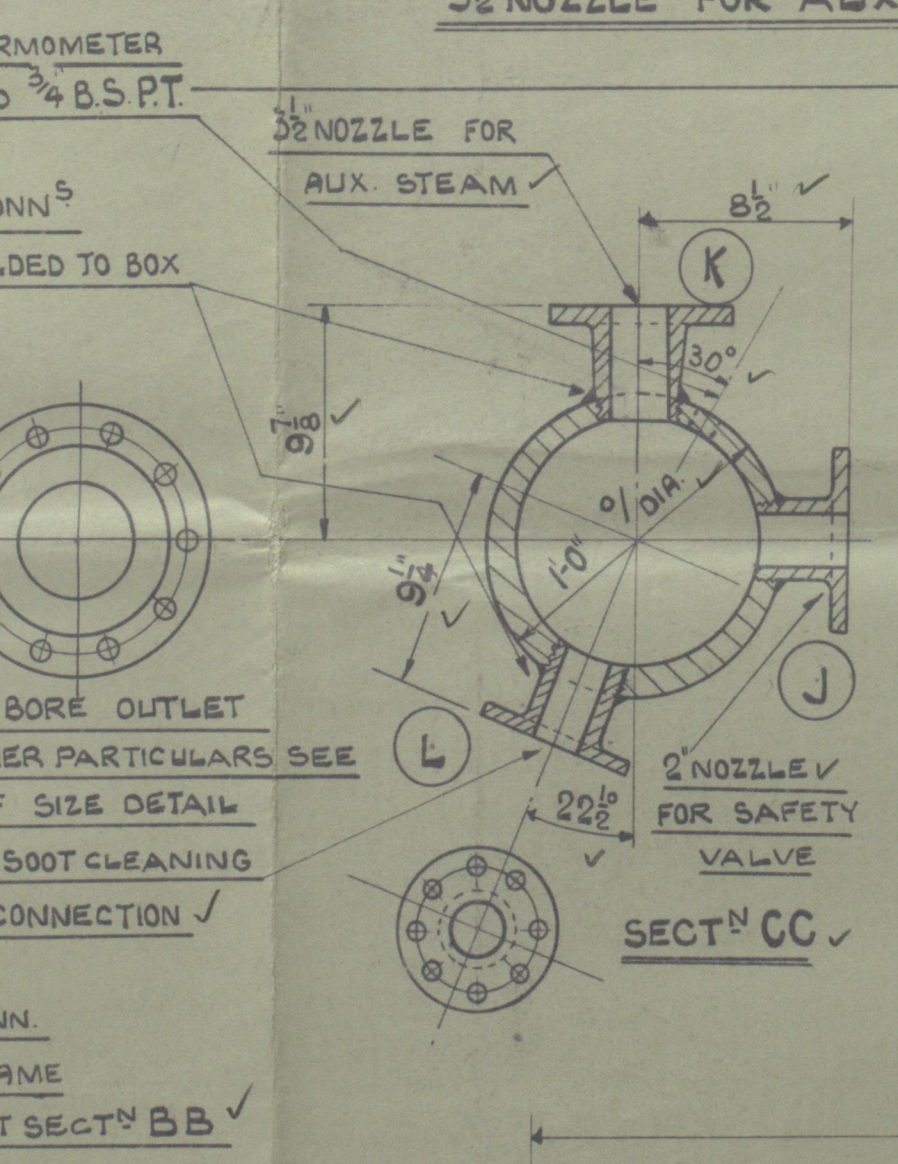
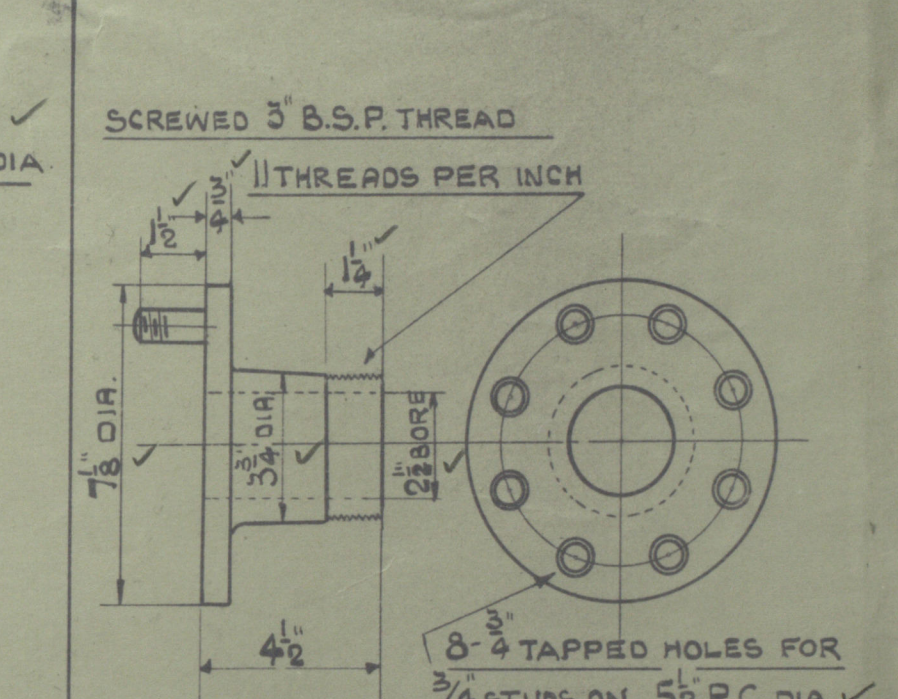
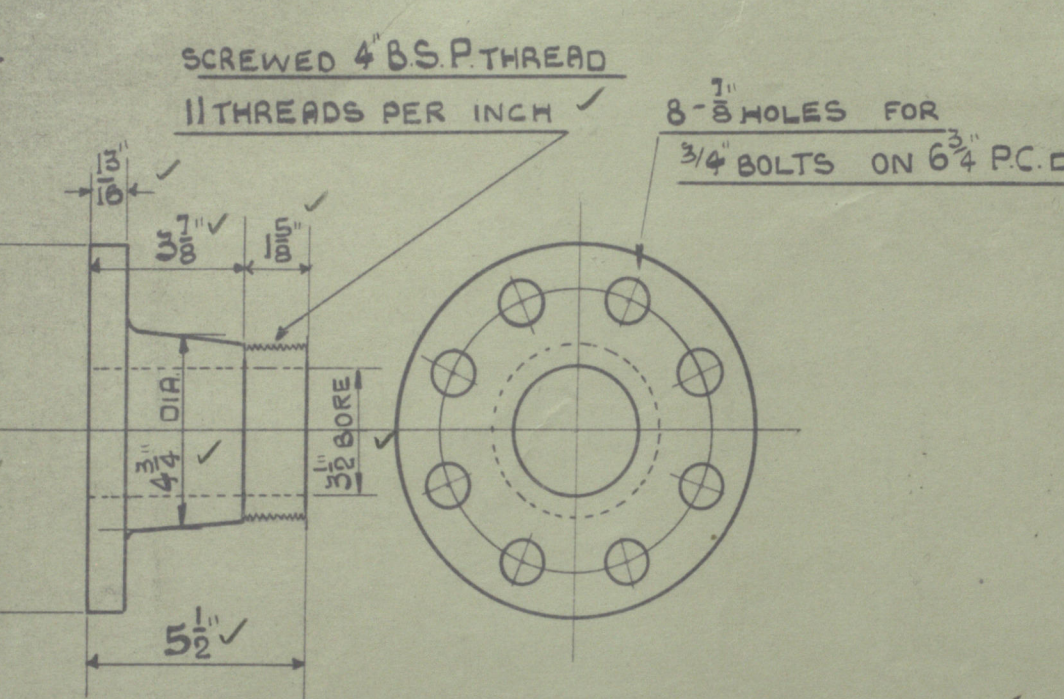
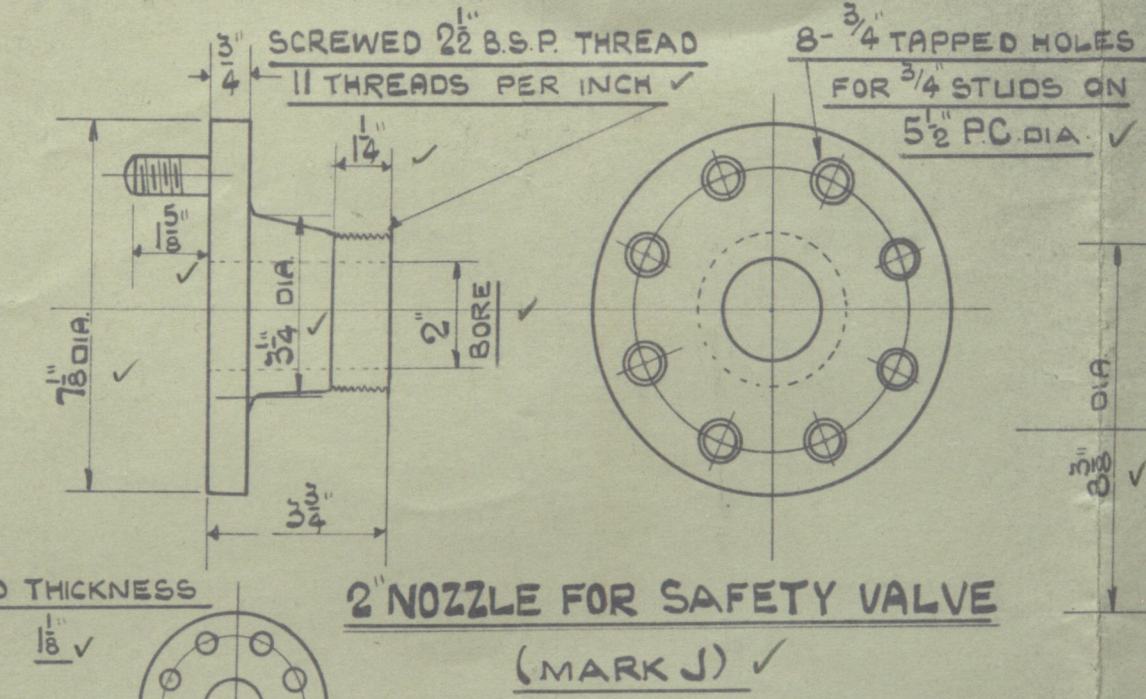
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DRAWN BY 3-12-36
TRACED BY M.L.B. 29-12-36
CHECKED BY
PASSED BY

ELEVATION LOOKING ON TUBE HOLES
SCALE: 1/2 = 1 FOOT
9' 10 1/2" OVERALL LENGTH OF BOX



SECTION THRO' D6
DIAPHRAGM TO BE ELECTRIC WELDED AROUND EDGE TO ENSURE STEAM TIGHTNESS.
ARRANGEMENT & DETAIL OF SUPERHEATER
PRESSURE PARTS
2 SUPERHEATER BOXES AS DRAWN
1" OFF TO OPPOSITE HAND
2 SHIPS
SCALES AS MARKED



3 SUPERHEATERS PER SHIP - 2 SHIPS

LIST OF MATERIAL REQUIRED FOR ONE SUPERHEATER			
Nº OFF	DESCRIPTION	REMARKS	
1	TOP BOX 1'-0" OUTSIDE DIA 1 1/2" THICK 6'-10 1/2" LONG FORGED SEAMLESS STEEL (LENGTH)	TO DETAIL	
1	BOTTOM BOX 1'-0" 1 1/2" THICK 9'-11 1/2" (ORDERING LENGTH)		
26	HOT FINISHED SEAMLESS STEEL TUBE A 1 1/2" x 9 L.G. THICK 20'-7 1/2" FINISHED LENGTH		
26	B 1 1/2" x 9 19'-8 1/2"		
26	C 1 1/2" x 9 18'-11 1/4"		
26	D 1 1/2" x 9 18'-3 1/2"		
26	E 1 1/2" x 9 17'-9 1/4"		
26	3/8 SQUARE HANDLE FITTINGS CLAMP PATT 88 BRIDGE 65 A & 1 OPEN HEX. NUT	1/2 GASKETS	
3	DIAPHRAGMS COMPLETE TO DETAIL		
1	1/2 BORE NOZZLE FOR AIR VALVE MARK F		
1	1/2 DRAIN - G		
2	1/2 SAFETY - H		
1	1/2 AUX. STEAM - K		
1	1/2 SOOT CLEANING VALVE MARK L		
1	1/2 PRESSURE GAUGE MARK M		
1	THERMOMETER POCKET		

SUPERHEATER BOXES TO BE OF FORGED SEAMLESS STEEL AND TO HAVE A TENSILE STRENGTH OF 28 TO 32 TONS PER SQ INCH MINIMUM ELONGATION NOT LESS THAN 27% ON 2 STANDARD TEST PIECE AND IN NO CASE MUST THE SUM OF TENSILE AND ELONGATION BE LESS THAN 57

LOAD ON BOILER SAFETY VALVE = 250 LBS PER SQ INCH
LOAD ON SUPERHEATER SAFETY VALVE = 240 LBS PER SQ INCH
TEST PRESSURE = 425 LBS PER SQ INCH

DESIGNED MAXIMUM TEMPERATURE OF STEAM AT SUPERHEATER OUTLET = 630°F
TUBE HEATING SURFACE OF ONE SUPERHEATER = 940 SQ FT

TO LLOYD'S SURVEY & TO THE REQUIREMENTS OF AUSTRALIAN NAVIGATION ACT & TO THE LATEST REQUIREMENTS OF THE BOARD OF TRADE FOR GARGO VESSELS

2/1320 & 2/1321
DRC. Nº 6277/10S
DATE: -

Gak20447 Babcock & Wilcox.

S/S John Knight R.B. 6/1321.

108

Iron Chaffin Lithgow's Land no 903

Rowan by no 1008.

(B)

Superheater Press: Parts.

by 6277/108.

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