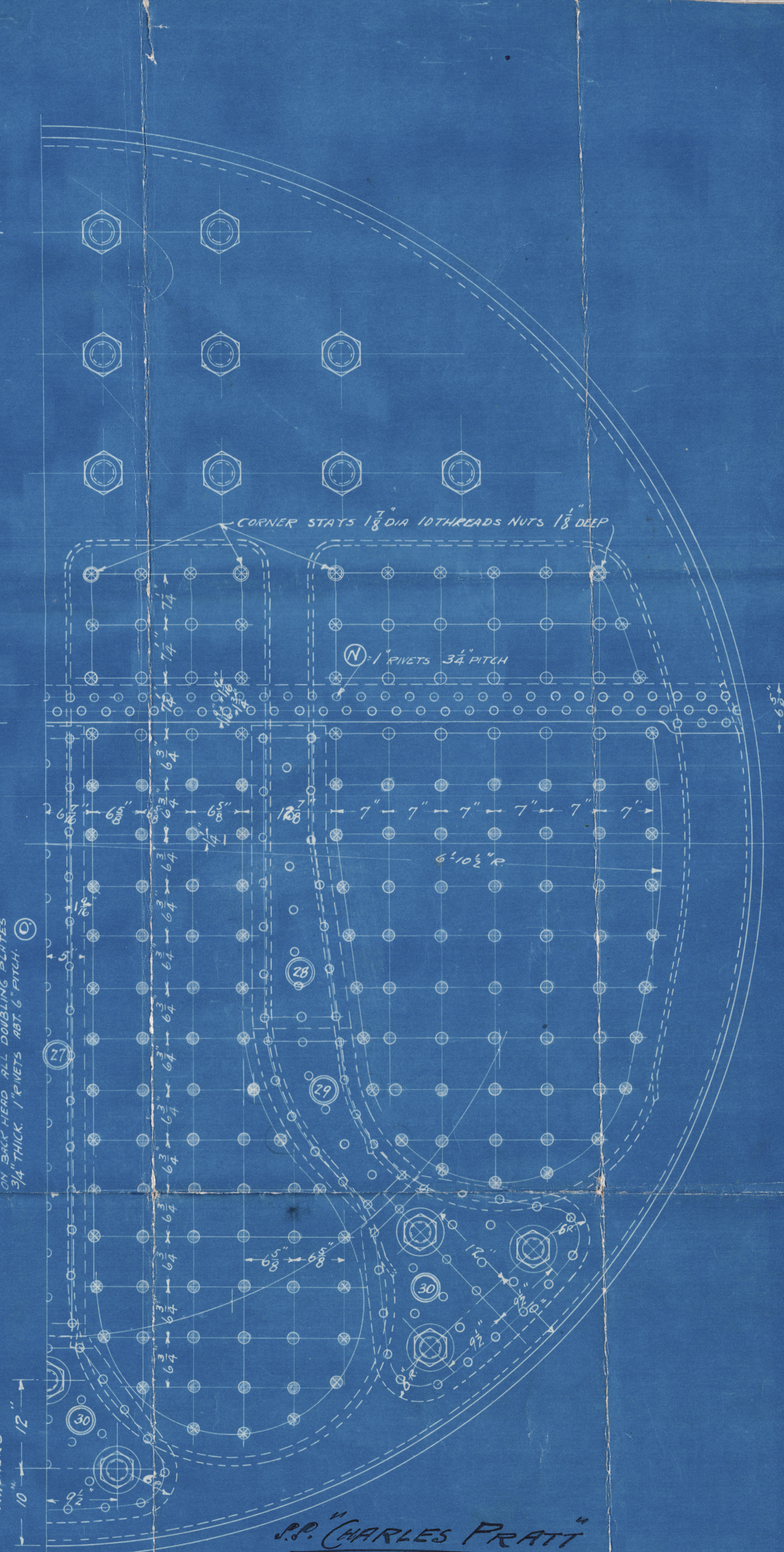
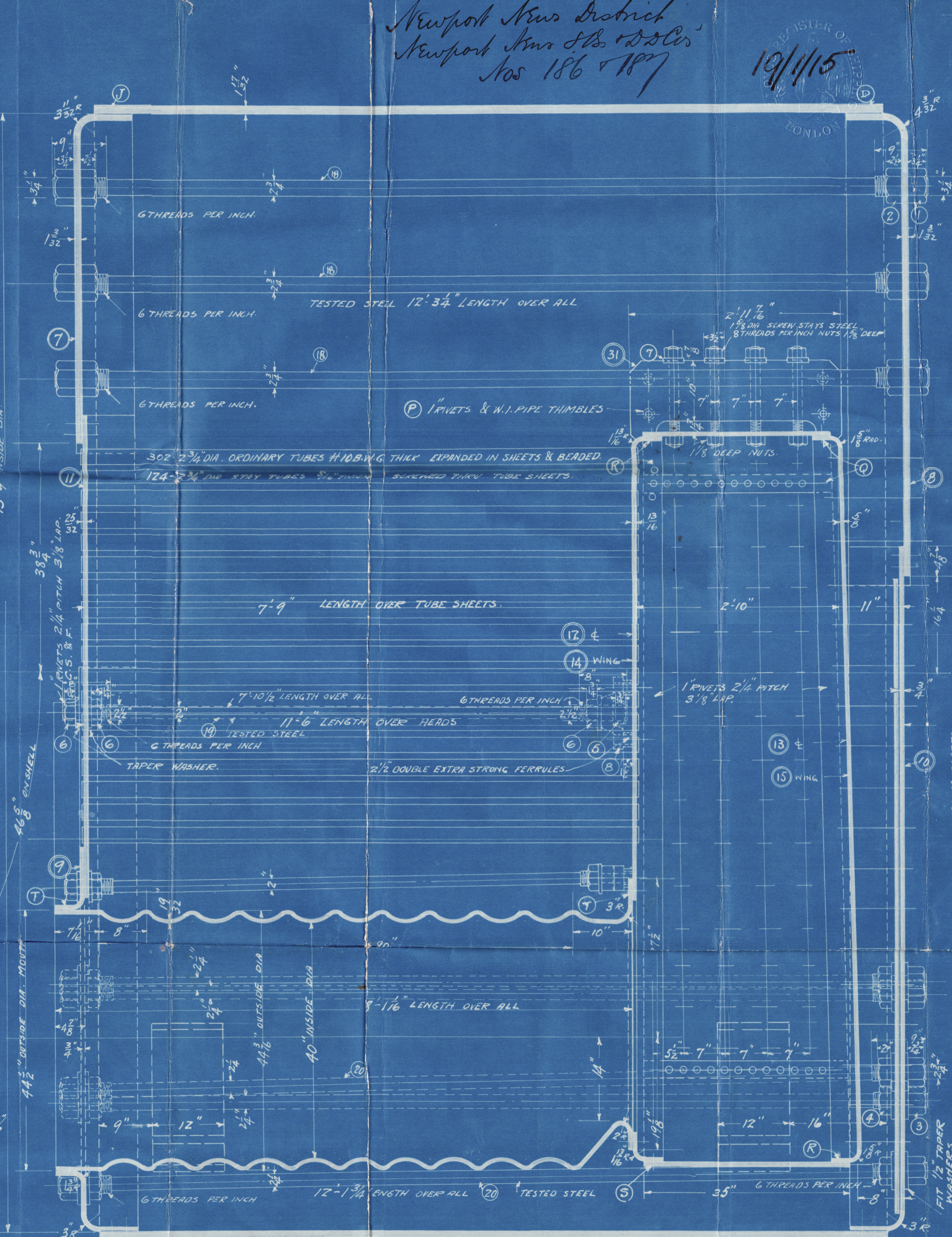
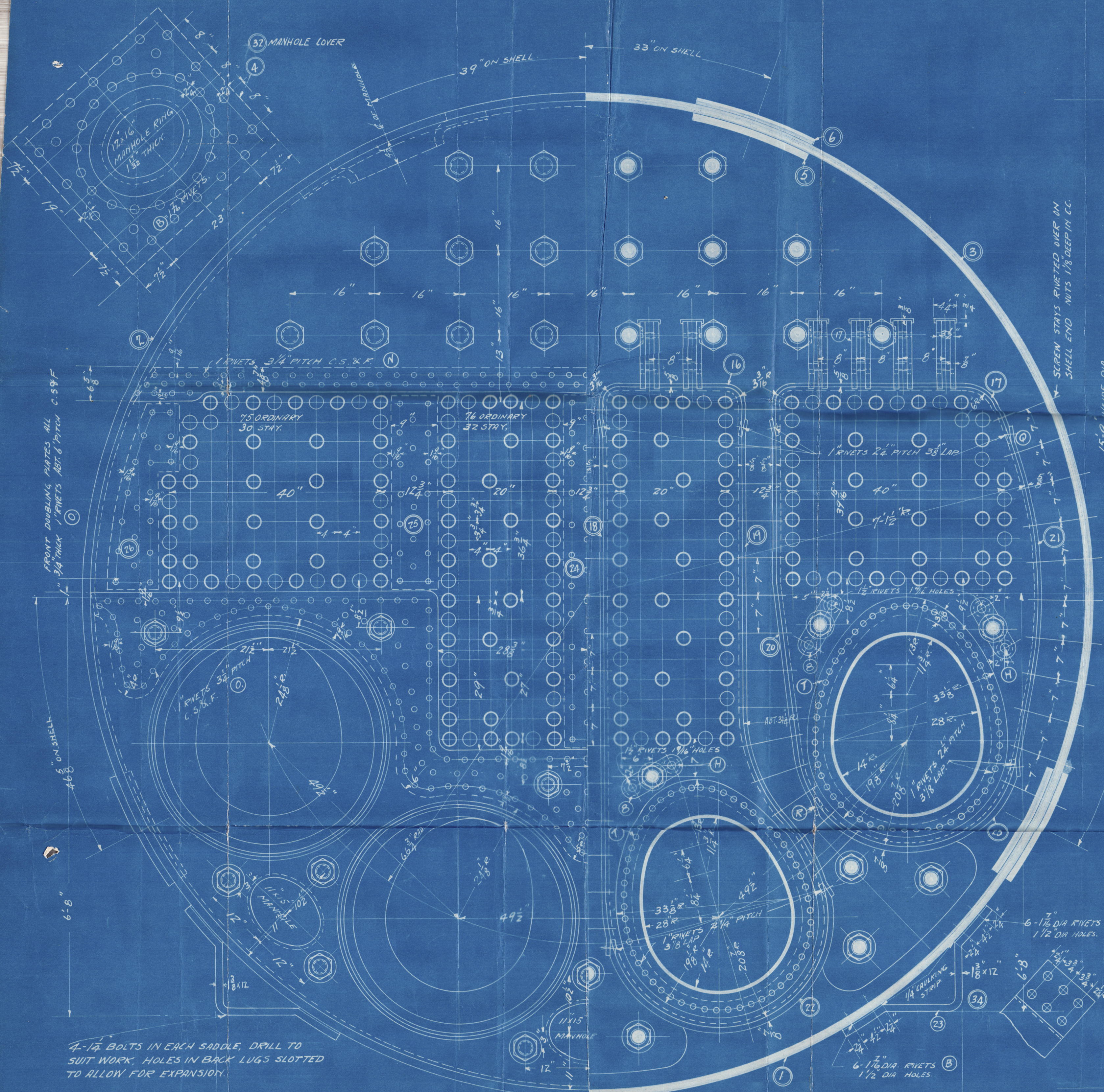


Newport News District
Newport News S.B. & S. Co.
Nov 186 & 187

19/1/15



1/2" BOLTS IN EACH SADDLE DRILL TO SUIT WORK. HOLES IN BACK LUGS SLOTTED TO ALLOW FOR EXPANSION.

SECTION THRU MANHOLE FRONT OF BOILER

MATERIAL LIST FOR (3 BOILERS) 1 SHIP

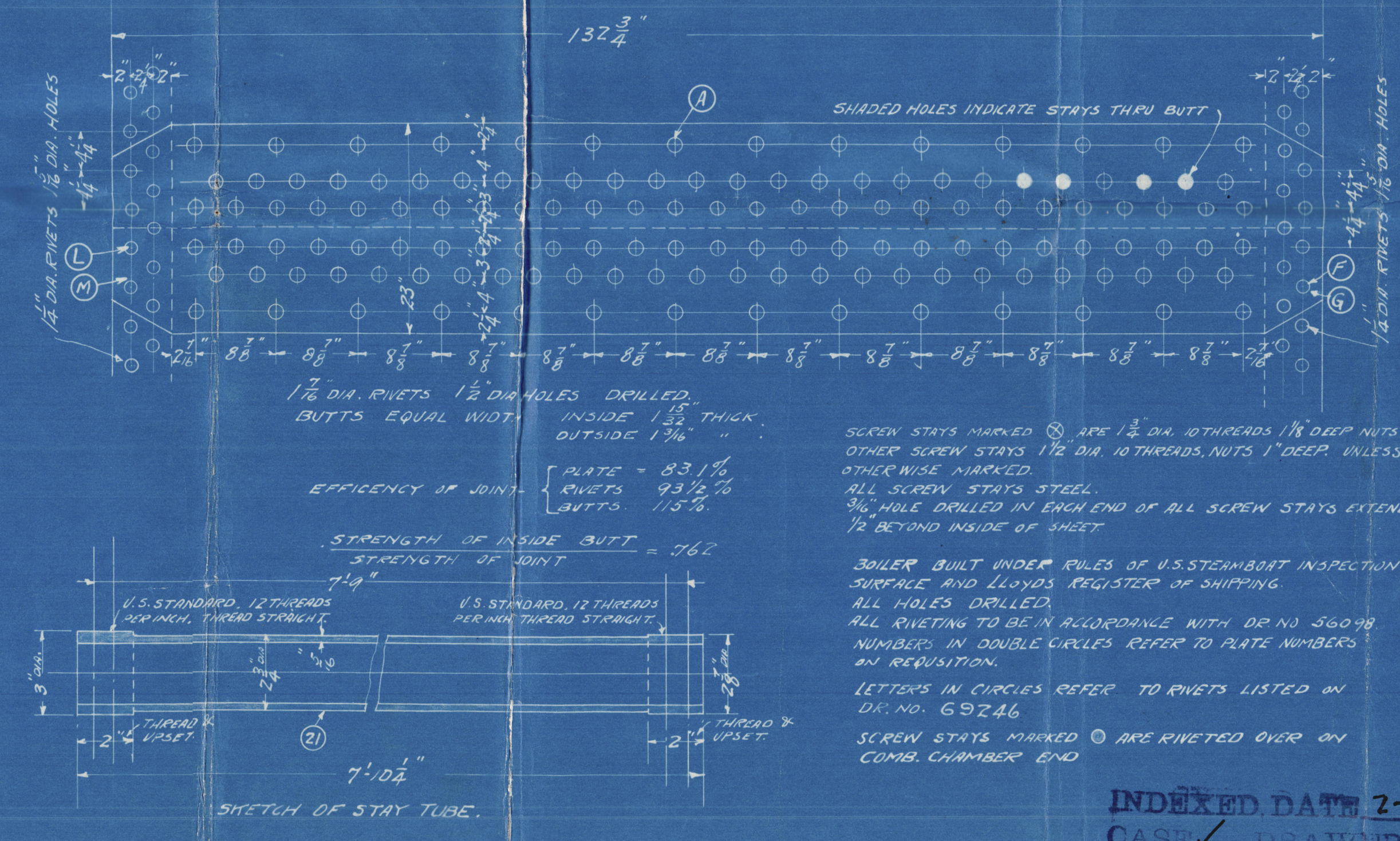
MATERIAL	NAME OF PART	ITEM	QTY	REMARKS
WROT IRON	3/4" DEEP 3/4" DIA SHELL	1	108	
WROT IRON	2 1/2" x 3 1/4" "	2	108	
WROT IRON	2 1/2" x 2 3/4" "	3	54	
WROT IRON	2" x 2 3/4" "	2	54	
WROT IRON	1 3/8" x 2 1/2" " SQ	3	18	
WROT IRON	1 1/2" x 2 1/2" " HEX	2	54	
MEDIUM STEEL	GIRDER CAP	7	144	
O.H. STEEL	PLATE FOR 2" STAY	8	656	
BEST LAMPED CARBON IRON	2 1/2" DIA RIBBING, ORD. TUBES	9	30	
O.H. STEEL	12 1/4" MANHOLE DOG	10	49-11	6
O.H. STEEL	1 1/2" x 5" MANHOLE DOG	11	49-11	18
WROT IRON	12 1/4" MANHOLE BOLT	12	384	6 3
WROT IRON	1 1/2" x 5" MANHOLE BOLT	13	384	18
WROT IRON	HANDLE FOR MANHOLE	14	391	3
WROT IRON	1/2" OPEN WRENCH	15	640	1
WROT IRON	1/2" SOCKET WRENCH F-24	16	620	1
O.H. STEEL	GIRDER COMPLETE	17	36	
O.H. STEEL TESTED	STAYS, MAIN	18	54	
O.H. STEEL TESTED	STAYS, AUX.	19	18	
O.H. STEEL TESTED	STAY TUBES	20	27	
BEST DOUBLE REFINED IRON	THREADED CUTTING	21	372	
O.H. STEEL TESTED	BOLTING LUGS	22	15	REQUIRED
MEDIUM STEEL	BOLTING LUGS	23	15	REQUIRED
WROT IRON	SCREEN STAY NUTS	24	72	REQUIRED

DATA	1 BOILER	3 BOILERS
LENGTH OF GRATE	5'-4 1/2"	
GRATE SURFACE	71 3/4 sq ft	215 sq ft
EXTERNAL DIA OF TUBES	2 3/4"	
NUMBER OF TUBES	426	1278
LENGTH BTWN TUBE SHEETS	7'-7 1/2"	
SURFACE OF TUBES	2336 sq ft	
" " G.C.	352 sq ft	
" " FURNACES	212 sq ft	
TOTAL HEATING SURFACE	2700 sq ft	8700 sq ft
H.S. + G.S.	40.5	
AREA THRU TUBES	13.2 sq ft	39.6 sq ft
G.S. + T.A.	5.43	
STEAM PRESSURE	200 LBS.	
WATER TEST PRESSURE	300 LBS.	
HEIGHT ABOVE C.C. - 1.14	.286	

MATERIAL REQUIREMENTS

MATERIAL	PART	QTY	REMARKS
O.H. STEEL	SHELL PLATES	62725#	1/800 LBS.
O.H. STEEL	MANHOLE RING	28 TONS	32 TONS.
DO	FLANGE AND FIRE BOX PLATES	58240#	67500 LBS.
DO	GIRDERS	26 TONS	30 TONS.
DO	MEDIUM STEEL	58240#	67500 LBS.
DO	WROT IRON	26 TONS	24 TONS.
BEST LAMPED CARBON IRON	TUBES	58240#	67500 LBS.
WILD STEEL	RIVETS	26 TONS	30 TONS.
O.H. STEEL	2 1/2" x 2 1/2" 2" DIA STAYS	28 TONS	33 TONS.
O.H. STEEL TESTED	SCREEN STAYS	26 TONS	34 TONS.
COLD PUNCHED WROT IRON	SCREEN STAY NUTS		
MEDIUM STEEL	BOLTING LUGS		

EVAPORATION - 235" PER # G.S. - 16840" PER # H.P.
16840 x 20 1/4 = 16 25 1/2
RIS
FIT 3 1/2" TWIN = 19 2 1/2"



DRK

19.1.15

J.P. CHARLES PRATT
1712 Rte 884

ITEM	QTY	REMARKS
COMBUSTION CHAMBER & FURNACES	1	
TUBING	1	
STAYING, SCREEN STAYS	1	
STAYING, MAIN STAYS	1	
STAYING, CRUMBY SHEETS	1	
FITTING UP MANHOLES & HANDHOLES	1	
HYDROSTATIC TESTS	1	
SET OF DETAILS AS PER MATERIAL LIST	1	
BOILER AS DRAWN	1	
BOILER TO OTHER HAND	1	
SET OF DETAILS AS PER MATERIAL LIST	1	

NEWPORT NEWS
ENGINEERING DEPARTMENT
MACHINERY DIVISION

ITEM	QTY	REMARKS
MAIN BOILER 15'9" INSIDE DIA	1	
11'6" LONG. 200 LBS WORKING	1	
STEAM PRESSURE	1	
SCALE 1"	1	
DRAWING NO	69053	
INDEXED DATE 2-4-15	1	
CASE 4 DRAWER 32	1	

W373-0194

"Charles Pratt"

V.Ns. 884.

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186 & 187

Main boiler plan

RETAIN



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