

**LEGEND**

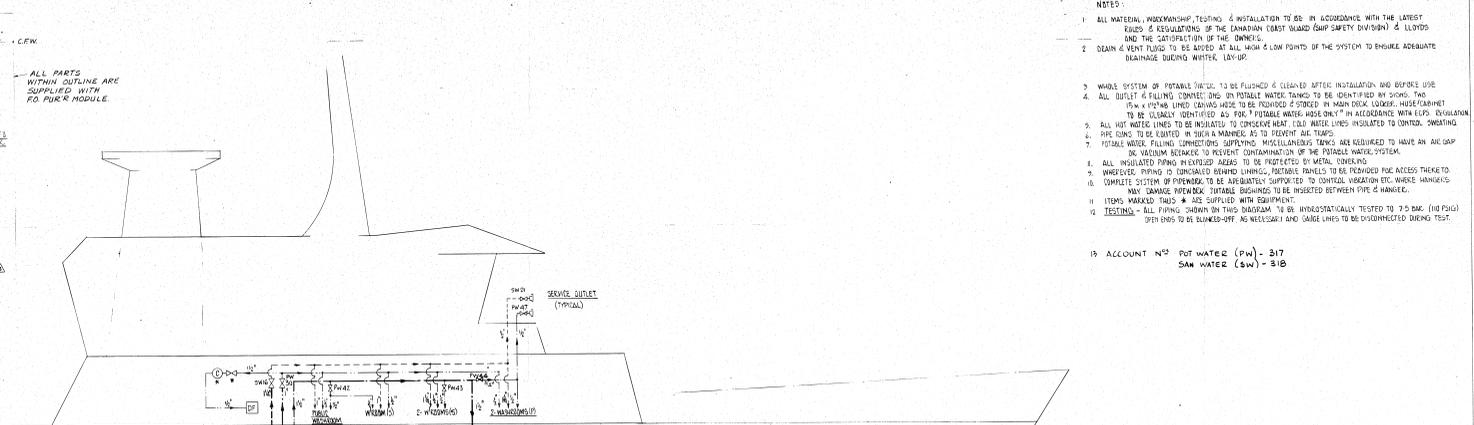
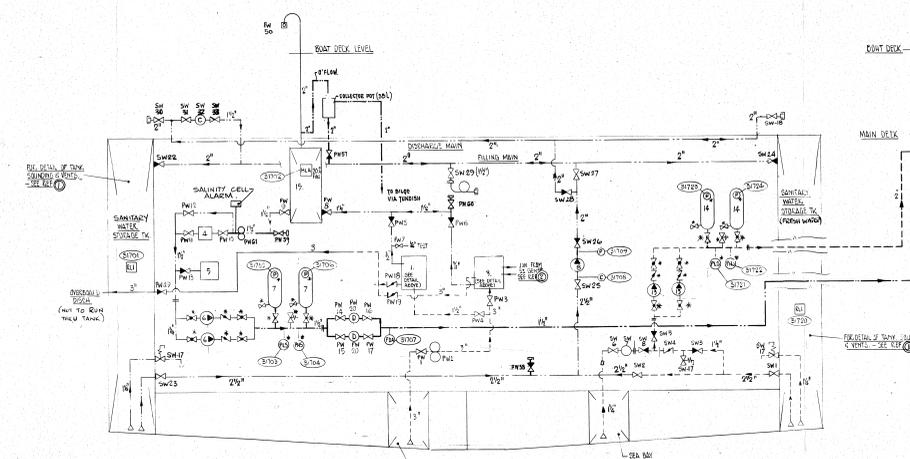
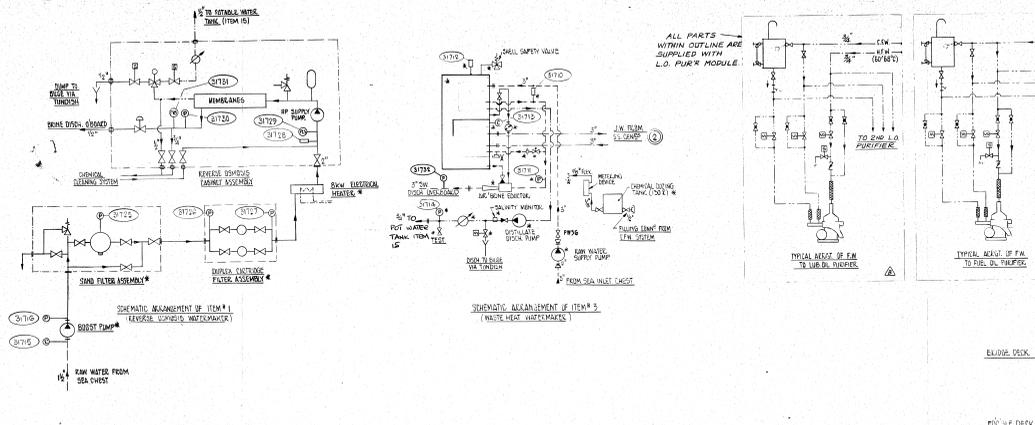
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(S)	SOOL. GLOBE VALVE L.O. LOCKED OPEN	(M)	METER/BI-METER
(V)	SOOL. GLOBE VALVE	(G)	PRESSURE GAUGE 1/2" ISOLATION VALVE
(C)	CHECK VALVE	(D)	DIFFERENTIAL PRESSURE ALARM
(P)	PRESSURE RELIEF VALVE	(I)	TEMPERATURE INDICATOR
(S)	SPRING LOADED SELF CLOSING VALVE	(L)	LOW PRESSURE SWITCH
(B)	BALL VALVE	(H)	HIGH PRESSURE SWITCH
(O)	SOLENOID OPERATED VALVE	(T)	TEMPERATURE SWITCH
		(A)	HIGH LEVEL ALARM
		(N)	INSTRUMENTATION LIST REF NO.
		(F)	FLOW METER
		(H)	HOSE CONNECTION
(P)	PUMP (REF TO EQUIPMENT LIST)	(F)	SPECIAL FLANGE
(S)	STRAINER	(S)	Y-STRAINER
(F)	FILTER (EXPRESSIBLE CARTRIDGE TYPE)	(F)	FLANGED CONNECTION
(F)	FILTER (NON-CORROSION)	(D)	DIFFERENTIAL PRESSURE
(D)	DUPLICATED STEAMER	(G)	GLASS
(T)	SOOT TERMINAL FITTING (1/2" SOCKET & BALL CHECK)	(G)	SIGHT GLASS
(B)	SECTION BELLBOUW	(P)	PERFORATED PLATE
(B)	BONGING FOUNTAIN	(F)	FILTER

**EQUIPMENT LIST**

ITEM	DESCRIPTION	NO. OFF	MODEL NO.	CAPACITY	HEAD	POWER	HEIGHT	P.D. NO.
1	SEWERAGE TREATMENT WATERMAKER	ONE	100000	2000 GPD	5-7	270	81361	
2	WASTE HEAT WATERMAKER	ONE	100000	2000 GPD	7.8	115	81004	
3	ULTRA VIOLET STERILIZER UNIT	ONE	100000	2000 GPD			81745	
4	CHLORINE INJECTION UNIT	ONE	100000	2000 GPD			80244	
5	P.W. PRESSURE PUMPS	2	100000	2000 GPD	4 BAR	2.4	1750	80244
6	P.W. PRESSURE TANKS	2	100000	2000 GPD			80244	
7	S.W. TREATMENT PUMP	ONE	100000	2000 GPD	5 BAR	11.0	1750	81444
8	P.W. TREATMENT PUMPS	2	100000	2000 GPD	4 BAR	2.4	1750	81007
9	P.W. CIRCULATING PUMPS	2	100000	2000 GPD	12 BAR	1.8	1750	81286
10	P.W. CIRCULATING PUMPS (SHEATH COOLING)	ONE	100000	2000 GPD			81007	
11	S.W. PRESSURE PUMPS	2	100000	2000 GPD	4 BAR	2.4	1750	80244
12	S.W. PRESSURE TANKS	2	100000	2000 GPD			80244	
13	P.W. ONLY SERVICE TANK	ONE	100000	2000 GPD			80244	

**MATERIAL SPECIFICATION**

SERVICE	SIZE	PIPE	MATERIAL	JOINTS	VALVES	TYPE	FRS	BODY	TRIM	UNIT	ELBS	GASKETS
POTABLE - SANITARY FRESH WATER	1/2" & BELOW	TYPE 'M' HDPE	FLANGED 150#	FLANGED 150#	FLANGED 150#	150#	BRONZE	BRONZE	BRONZE	150#	150#	150#
P.W. FILTRATION (POTABLE)	ALL SIZES	ASTM A 53 GR. B	VICTALINE	FLANGED 150#	FLANGED 150#	150#	BRONZE	BRONZE	BRONZE	150#	150#	150#
SEWERAGE PIPING	80	P.V.C.	P.V.C.	FLANGED 150#	FLANGED 150#	150#	BRONZE	BRONZE	BRONZE	150#	150#	150#



- NOTES:**
- ALL MATERIAL, WORKMANSHIP, TESTING & INSTALLATION TO BE IN ACCORDANCE WITH THE LATEST EDITIONS & REGULATIONS OF THE CANADIAN MARINE BOARD (S.A.P. SAFETY DIVISION) & LLOYD'S AND THE SATISFACTION OF THE OWNER'S.
  - SEWERAGE VENT PIPING TO BE ADDED AT ALL HIGH & LOW POINTS OF THE SYSTEM TO ENSURE ADEQUATE DRAINAGE (SEE WASTE WATER LOG SHEET).
  - WASTE SYSTEM OF POTABLE WATER TO BE FLUSHED & CLEANED AFTER INSTALLATION AND BEFORE USE.
  - ALL OUTLET & FILLING CONNECTIONS ON POTABLE WATER TANKS TO BE IDENTIFIED BY SIGNING TWO (2) x 4" PAPER LABELS (SEE LOG SHEET) TO BE POSITIONED & COVERED IN MAIN DECK LOWER MIDDLE CABINET TO BE CLEARLY IDENTIFIED AS FOR POTABLE WATER ONLY IN ACCORDANCE WITH E.P. EVALUATION.
  - ALL HOT WATER LINES TO BE INSULATED TO CONSERVE HEAT. COLD WATER LINES INSULATED TO PREVENT SWELLING.
  - P.W. TANKS TO BE COVERED IN SUCH A MANNER AS TO PREVENT AIR FLOW.
  - POTABLE WATER FILLING CONNECTIONS, SUPPLIES, MISCELLANEOUS TANKS ARE REQUIRED TO HAVE AN AIR GAP OR VACUUM BREAKER TO PREVENT CONTAMINATION OF THE POTABLE WATER SYSTEM.
  - ALL INSULATED PIPING IN EXPOSED AREAS TO BE PROTECTED BY METAL COVERING.
  - WHEREVER PIPING IS DISCONNECTED BEHIND LIVING, PORTABLE TANKS TO BE PROVIDED FOR ACCESS THERE TO.
  - COMPLETE SYSTEM OF PIPING TO BE ARBITRARILY SUPPORTED TO PREVENT VIBRATION ETC. WHERE NECESSARY.
  - WALL DAMAGED BY WATER, PORTABLE BRASSINGS TO BE INSERTED BETWEEN PIPE & WAREHOUSE.
  - ITEMS MARKED THIS # ARE SUPPLIED WITH EQUIPMENT.
  - TESTING - ALL PIPING DRAWN ON THIS DIAGRAM TO BE HYDRAULICALLY TESTED TO 7.5 BAR (110 PSIG) WITH WATER TO BE BLOWN-OFF, AS NECESSARY AND GASKET LINES TO BE DISCONNECTED DURING TEST.
  - ACCOUNT NO: POT WATER (P.W.) - 317 SAN WATER (S.W.) - 318

Rev. No. \_\_\_\_\_ Revision \_\_\_\_\_ Date \_\_\_\_\_

Prepared by \_\_\_\_\_

Checked by \_\_\_\_\_

Approved by \_\_\_\_\_

**PICOT INDUSTRIES LIMITED**

**Canadian Coast Guard**      **Garde côtière canadienne**

Project: **CCGS 'EARL GREY'**

System: **HOT & COLD DOMESTIC FRESH WATER**

**SANITARY WATER DIAGRAM**

**(AS FITTED)**

Drawn: **J.M.B.**      Scale/Date: **NONE**      Rev. **F**

Equipment No. **218-317/004**

E.I.S.