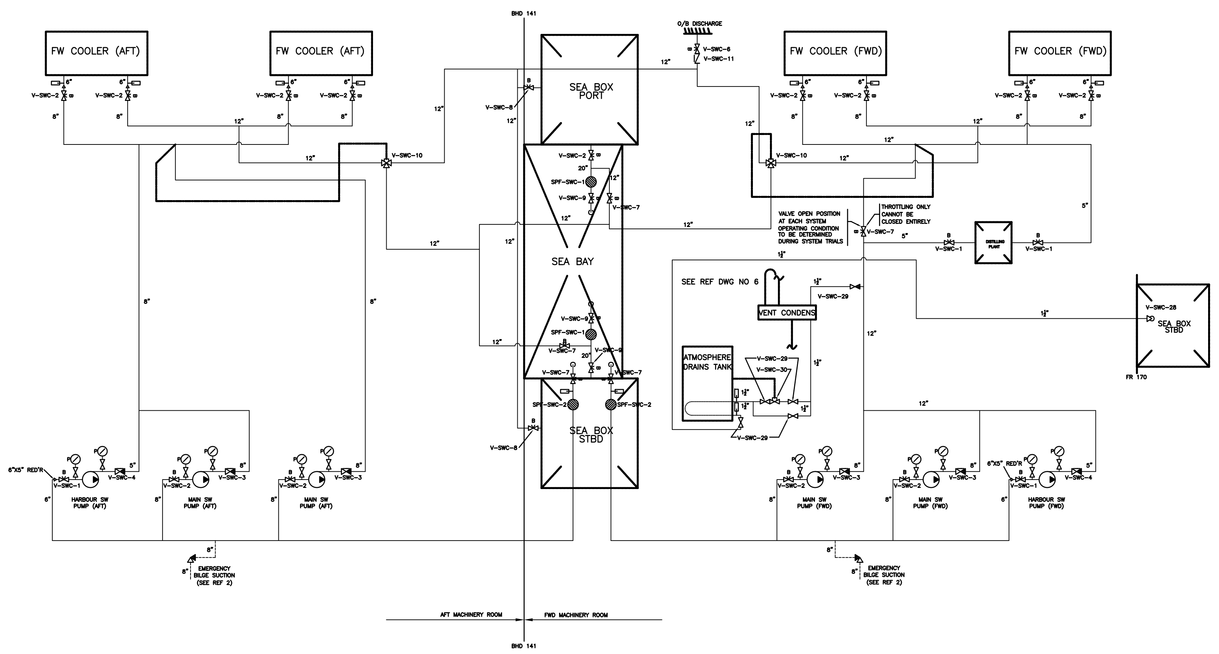
PUMP DATA						
PUMP	NO. OF	TYPE	NO. OF SPEEDS	CAPACITY	TOTAL HEAD	MANUFACTURER
MAIN SW (FWD)	2	CENTRIFUGAL	1	1833 IGPM	35 FSW	MAK SUPPLY
MAIN SW (AFT)	2	CENTRIFUGAL	1	1833 IGPM	35 FSW	MAK SUPPLY
HARBOUR SW	2	CENTRIFUGAL	1	367 IGPM	35 FSW	MAK SUPPLY

MATERIAL SPECIFICATION						
PIPE						
SYSTEM	MP/TP	SIZE	MATERIAL		CONNECTION	GASKET
SW COOLING PIPING (NEW)	SCH 40S	3/8" TO 14"	SCH 40S SMLS PLA. SS ASTM A312 GR 316 OR 316L		FLANGED	BUNA-N
SEA INLET PIPING (NEW)	SCH 80S	3/4" TO 20"	SCH 80S SMLS PLA. SS ASTM A312 GR 316 OR 316L		FLANGED	BUNA-N
VALVES						
SYSTEM	TYPE	SIZE	BODY	TRIM	BONNET	CONN.
SW COOLING PIPING (NEW)	BTFLY	ALL	CAST STEEL	S.S.	BOLTED	LUGGED
SEA INLET PIPING (NEW)	ALL (EXCEPT BTFLY)	ALL	CAST STEEL	S.S.	BOLTED	FLANGED

GENERAL NOTES:

1. VALVES V-SWC-5 & V-SWC-6 SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN OPTIMUM OPERATING CONDITIONS DURING BOTH SUMMER AND WINTER.
2. ITEMS MARKED * ARE SUPPLIED WITH EQUIPMENT.
3. ALL VALVES ARE OPEN UNLESS OTHERWISE INDICATED.
4. ALL PIPES ARE NOMINAL AND DIMENSIONED IN INCHES.
5. ALL PIPING, VALVES AND FITTINGS SHALL BE IN ACCORDANCE WITH CCG STD. (3) AND OWNER AGREED EXCEPTIONS.
6. THE SYSTEM TEST PROCEDURE SHALL BE IN ACCORDANCE WITH THE SPECIFICATION OF THE MODERNIZED VESSEL.
7. ALL PIPELINES SHOWN ON THIS SHEET ARE NEW.
8. THE EMERGENCY BILGE SUCTION VALVES SHALL BE FITTED WITH A NAMEPLATE INSCRIBED "FOR EMERGENCY USE ONLY"



REFERENCE DRAWINGS		
REF	DRW. NO.	TITLE
6	6005-500-000	DIAGRAMMATIC ARR OF STEAM CONDENSATE & FEED WATER
5	6005-422-001	DIAGRAMMATIC ARR OF FRESH WATER COOLING SYSTEM
4	A-A-8146 Rev	MAK HEAT BALANCE
3	6005-500-000	STANDARD SYMBOLS
2	6005-401-001	DIAGRAMMATIC ARR OF BILGE & BALLAST SYSTEM
1	MA-286-163	DIAGRAMMATIC ARR OF SW CIRC IN FWD & AFT MOTOR ROOMS

---	CONVERTED TO CAD FORMAT	2001-07-16	MB	---
NO.	REVISION	DATE	BY	APPROVED

PÊCHES & OCÉANS CANADA COAST GUARD MARITIMES
PÊCHES ET OCÉANS CANADA GARDE CÔTIÈRE MARITIMES

VESSEL: C.C.G.S. LOUIS .S ST. LAURENT

DIAGRAMMATIC ARRANGEMENT OF SALT WATER COOLING

DRAWN BY: S. DOUGLAS	DATE: 99-06-27	UPDATED BY: M. MCINTOSH	DATE: 12-07-04
APPROVED BY:	DATE:	CHECKED BY:	DATE:
SCALE: NTS	REF. No: 6005-419-001		SHEET: 1/5 SIZE: A4
C.C.G. DWG. No.:	6005-419-001		REV: 4

ALL DIMENSIONS IN METRES

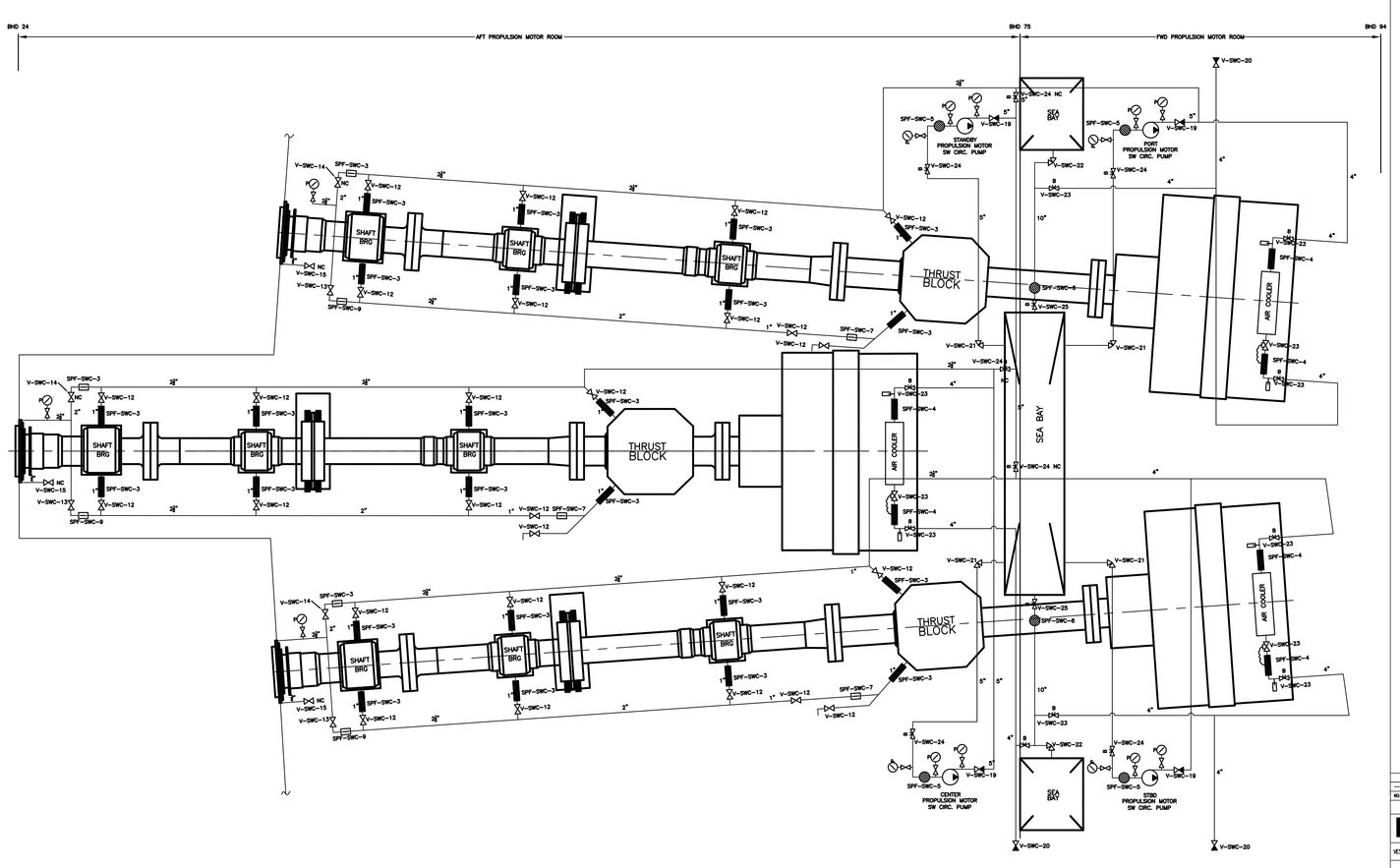
Plot Scale
XXX

PUMP DATA						
PUMP	NO. OF	TYPE	NO. OF SPEEDS	CAPACITY	TOTAL HEAD	MANUFACTURER
PROPULSION MOTOR SW CIRCULATING- MAIN	3	CENTRIFUGAL	1	350 IGPM	60 FT	PEACOCK BROTHERS
PROPULSION MOTOR SW CIRCULATING- STANDBY	1	CENTRIFUGAL	1	350 IGPM	60 FT	PEACOCK BROTHERS

MATERIAL SPECIFICATION						
PIPE						
SYSTEM	MP/TP	SIZE	MATERIAL		CONNECTION	GASKET
SW COOLING PIPING	ALL	ALL	90/10 CU-NI A ASTM-B43 SCH 40 W/ GALVD		FLANGED	'A' RUBBER CLOTH INSIDE
VALVES						
SYSTEM	TYPE	SIZE	BODY	TRIM	BONNET	CONN.
SW COOLING PIPING	ALL	ALL	CAST STEEL	S.S. OR BRONZE	BOLTED	FLANGED

GENERAL NOTES:

1. ALL VALVES ARE OPEN UNLESS OTHERWISE INDICATED
2. ALL PIPE SIZES ARE NOMINAL AND DIMENSIONED IN INCHES
3. ALL PIPING, VALVES & FITTINGS ARE EXISTING
4. THE SYSTEM TEST PROCEDURE SHALL BE IN ACCORDANCE WITH THE SPECIFICATION OF THE MODERNIZED VESSEL.



REFERENCE DRAWINGS		
REF	DRW. NO.	TITLE
3	SEE SHEET 1	
2	6005-500-000	STANDARD SYMBOLS
1	MA-286-163	DIAGRAMMATIC ARR OF SW CIRC IN FWD & AFT MOTOR ROOMS

---	CONVERTED TO CAD FORMAT	2001-07-16	MB	---
NO.	REVISION	DATE	BY	APPROVED

PÊCHES & OCÉANS CANADA COAST GUARD MARITIMES
PÊCHES ET OCÉANS CANADA GARDE CÔTIÈRE MARITIMES

VESSEL: C.C.G.S. LOUIS .S ST. LAURENT

DIAGRAMMATIC ARRANGEMENT OF SALT WATER COOLING

DRAWN BY: S. DOUGLAS	DATE: 99-06-27	UPDATED BY: M. MCINTOSH	DATE: 12-07-04
APPROVED BY:	DATE:	CHECKED BY:	DATE:
SCALE: NTS	REF. No: 6005-419-001		SHEET: 2/5 SIZE: A4
C.C.G. DWG. No.:	6005-419-001		REV: 3

ALL DIMENSIONS IN METRES

Plot Scale
XXX