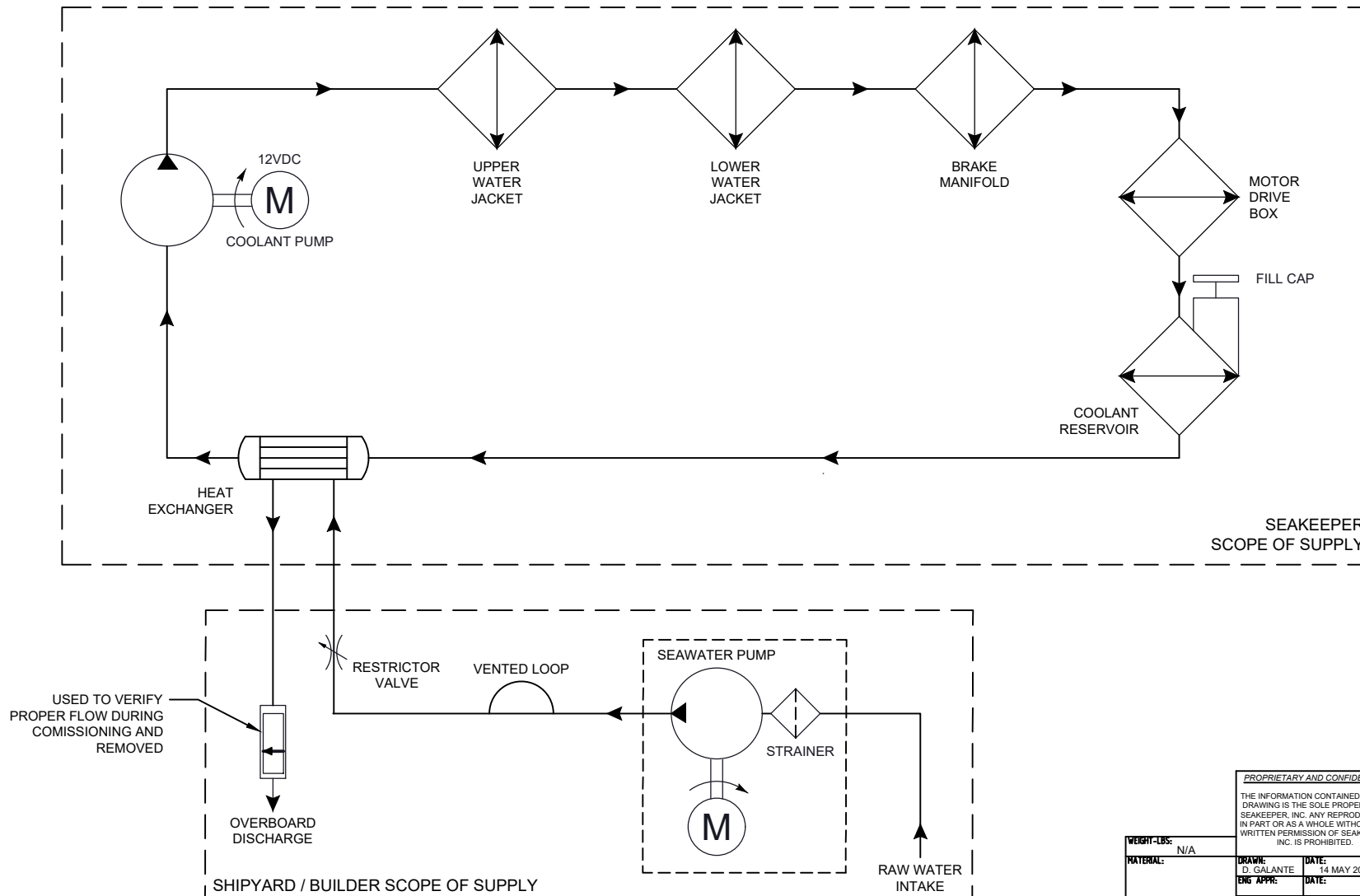


NOTES:

- 1) THE COOLANT SYSTEM IS FILLED WITH A 50% ETHYLENE GLYCOL / 50% DISTILLED WATER MIXTURE.
- 2) DC POWERED SEAWATER PUMP MUST BE PURCHASED FROM SEAKEEPER (30331) OR CUSTOMER SUPPLIED (W/ COMPARABLE SPECIFICATIONS). A SEAWATER STRAINER IS REQUIRED, 50 MESH (300 MICRON) OR FINER, ON THE INLET SIDE OF THE SEAWATER PUMP. A STRAINER IS INCLUDED WITH THE SEAKEEPER SEAWATER PUMP (30331).
 - a) REFER TO CABLE BLOCK DIAGRAM (90470) FOR PUMP WIRING DETAILS.
- 3) SEAWATER FLOW REQUIREMENT THROUGH HEAT EXCHANGER IS 2 GPM (7.6 LPM) MINIMUM AND 6 GPM (22.7 LPM) MAXIMUM UNDER ALL OPERATING CONDITIONS OF THE BOAT. MAXIMUM SEAWATER PRESSURE TO BE 20 PSI (1.4 BAR). WHEN SIZING SEAWATER PUMP, INSTALLER SHOULD FACTOR IN LOSSES FOR RAW WATER PLUMBING.
 - a) IN ADDITION TO INITIAL OPERATION AT DOCK, NEW SEAKEEPER INSTALLATIONS SHOULD BE CHECKED FOR MINIMUM 2 GPM (7.6 LPM) AND 6 GPM (22.7 LPM) MAXIMUM FLOW WHILE VESSEL IS AT SPEED AND WHEN BACKING DOWN.

- b) IF SEA WATER FLOW RATE FROM DEDICATED PUMP OR CENTRAL SYSTEM IS HIGHER THAN MAXIMUM RECOMMENDED VALUE, AN APPROPRIATE RESTRICTOR VALVE SHOULD BE INSTALLED BETWEEN THE PUMP AND THE HEAT EXCHANGER TO DECREASE THE FLOW RATE.
- 4) WATER CONNECTIONS FOR SEAWATER INLET / OUTLET ON SEAKEEPER DC POWERED SEAWATER PUMP AND ON HEAT EXCHANGER ARE 3/4 INCH (19 mm) DIAMETER HOSE BARBS. 3/4 INCH HOSE BARB ADAPTERS ARE PROVIDED WITH SEAKEEPER DC POWERED SEAWATER PUMP.
 - a) SEE SEAKEEPER DRAWING #90487 FOR RECOMMENDED SEAWATER HOSE ROUTING TO SEAKEEPER STABILIZATION SYSTEM.
- 5) A VENTED LOOP, SUCH AS FORESPAR MARELON VENTED LOOP P/N 161810 OR SIMILAR, IS RECOMMENDED TO BE INSTALLED IN AN APPROPRIATE LOCATION TO ALLOW AIR PURGING IN THE SEAWATER SUPPLY LINE.

NOTES CONT'D. SH 2, ZONE 1-F



REVISIONS					
REV	ECN NO.	ZONE	DESCRIPTION	DATE	APPROVED
1			1. RELEASED FOR PRODUCTION.	14MAY18	WHK
2			1. REMOVED RESTRICTION VALVE & ADDED VENTED LOOP. 2. RELOCATED STRAINER AFTER PUMP FLOW. 3. CHANGED TYPE OF PUMP PER TYPICAL INSTALLATION.	14MAY18	DDG
3			1. CHANGED COOLANT FLOW PATH TO MATCH GYRO.	20AUG18	SAC
4			1. CHANGED HEAT EXCHANGER AND ADDED SEPARATE RESERVOIR. 2. CHANGED SEAWATER PUMP & NOTE AND SPECIFIED STRAINER BEFORE PUMP. 3. ADDED INSTRUCTION FOR RESTRICTION VALVE, IF REQUIRED.	03AUG20	DF
5	906	SH 1 SH 1 SH 2	1. REMOVED PARTS LIST AND CALLOUTS. 2. COMBINED NOTES & RECOMMENDATIONS. 3. REPLACED GRAPHIC FOR SK2 TOP VIEW.	22NOV21	G. REED

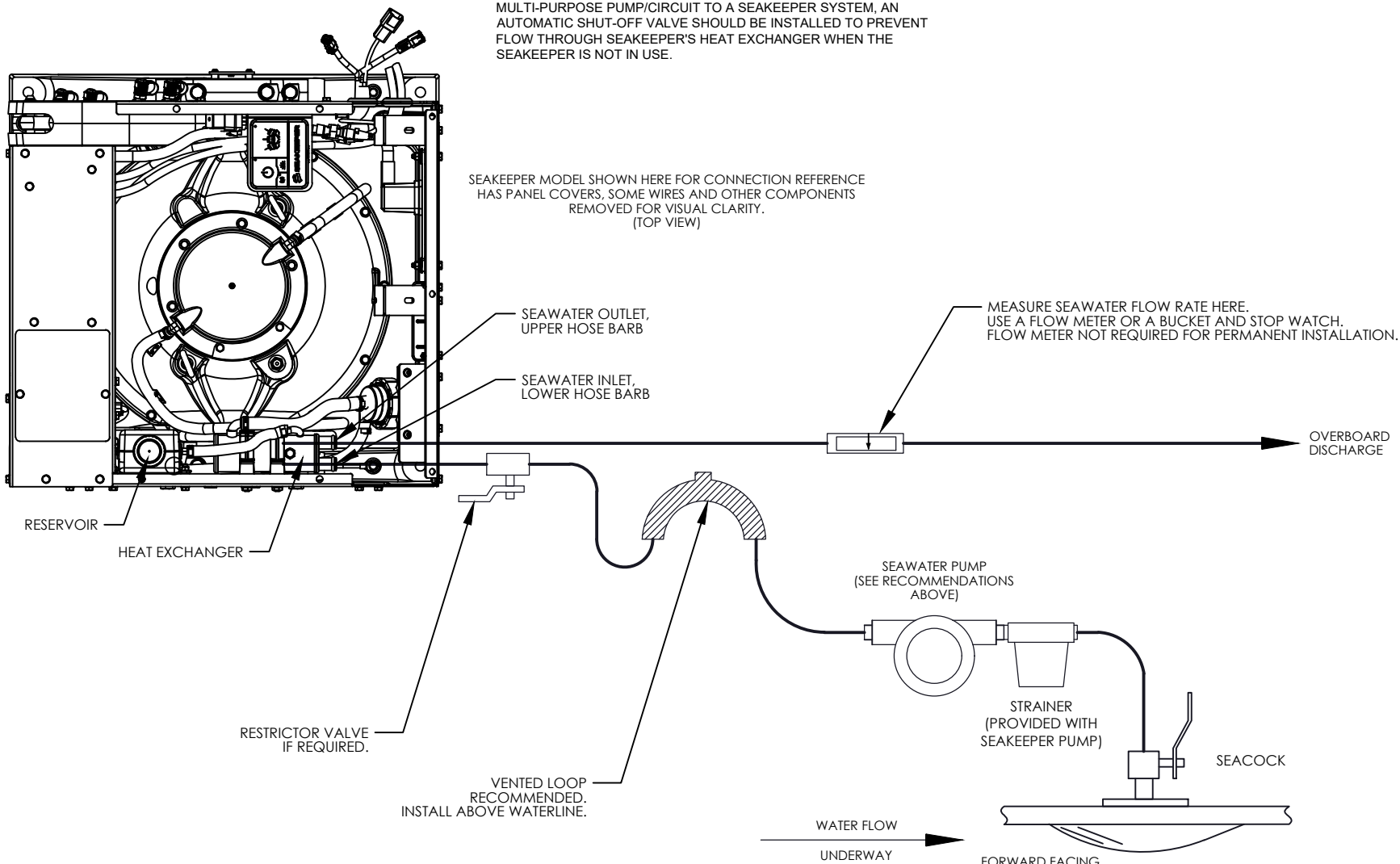
WEIGHT-LBS:		DRAWN:		TITLE SEAKEEPER 2 COOLING WATER SCHEMATIC	
N/A		DATE:			
MATERIAL:		D. GALANTE			
		14 MAY 2018			
		ENG APPR:		DWG NUMBER	
		DATE:		90490	
		PROD APPR:		REV SHEET NO.	
		DATE:		5 1 OF 2	

NOTES: CONT'D. FROM SH 1, ZONE 5-E

- 6) SEAWATER INTAKE SHOULD BE LOCATED IN THE AFT PORTION OF THE WATER PLANE AREA TO ENSURE THE INTAKE IS SUBMERGED IN ALL RUNNING CONDITIONS AND NOT BE LOCATED NEAR ANY HULL PROTRUSIONS OR STEPS THAT DISTURB FLOW.
- 7) RAW WATER INTAKE PUMPS SHOULD BE INSTALLED BELOW THE WATERLINE TO MAINTAIN POSITIVE PUMP SUCTION HEAD. SELF-PRIMING PUMP ARE RECOMMENDED FOR ALL INSTALLATIONS. THE SEAKEEPER SEAWATER PUMP IS A SELF-PRIMING PUMP.
- 8) SEAWATER PUMP SHOULD BE APPROPRIATELY SIZED TO ACCOUNT FOR PLUMBING LOSSES BETWEEN PICK-UP AND OVERBOARD DISCHARGE.

- 9) THE DISCHARGE HOSE OF THE PUMP SHOULD BE ROUTED CONTINUOUSLY UPHILL AS MUCH AS PRACTICAL TO ALLOW PUMP TO MAINTAIN PRIME SHOULD A SMALL AMOUNT OF AIR ENTER THE PLUMBING.
- 10) SEAWATER PUMP SHOULD BE RATED FOR SAME MAXIMUM AMBIENT AIR TEMPERATURE (60 °C) AS GYRO.
- 11) FOR MULTIPLE SEAKEEPER INSTALLATIONS, ONE SEAWATER PUMP PER INSTALLED SEAKEEPER IS RECOMMENDED.
- 12) A FORWARD FACING SCOOP OR HIGH-SPEED SEAWATER INTAKE IS RECOMMENDED.
- 13) IF SEAWATER COOLING FLOW IS BEING PROVIDED FROM A MULTI-PURPOSE PUMP/CIRCUIT TO A SEAKEEPER SYSTEM, AN AUTOMATIC SHUT-OFF VALVE SHOULD BE INSTALLED TO PREVENT FLOW THROUGH SEAKEEPER'S HEAT EXCHANGER WHEN THE SEAKEEPER IS NOT IN USE.

SEAKEEPER MODEL SHOWN HERE FOR CONNECTION REFERENCE HAS PANEL COVERS, SOME WIRES AND OTHER COMPONENTS REMOVED FOR VISUAL CLARITY.
(TOP VIEW)



TYPICAL SEAWATER COOLING PLUMBING ARRANGEMENT

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TITLE
SEAKEEPER 2 COOLING WATER SCHEMATIC

WEIGHT-LBS: N/A
MATERIAL:

DRAWN: D. GALANTE
ENG APPR:
PROD APPR:
DATE: 14 MAY 2018

DWG NUMBER
90490
REV 5
SHEET NO. 2 OF 2