


















EQUIPMENT/PUMP DETAILS				
ITEM	TYPE	CAPACITY	DIFF. HEAD (BAR)	LOCATION
BILGE/BALLAST /FIRE PUMP	CENTRIFUGAL PUMP	60m <sup>3</sup> /hr	6	ENGINE ROOM
BILGE/G.S./FIRE PUMP	CENTRIFUGAL PUMP	60m <sup>3</sup> /hr	6	
BWTS SYSTEM	UV TREATMENT	60m <sup>3</sup> /hr	—	

REFERENCE DRAWING/DOCUMENT		
DRAWING No.	Rev.	DRAWING TITLE
GSPL-P1482-PI-0004	0	SANITARY & F.W SERVICE SYSTEM PIPING SCHEMATIC
GSPL-P1482-PI-0003	0	COMPRESSED AIR SYSTEM (CONTROL AIR) PIPING SCHEMATIC

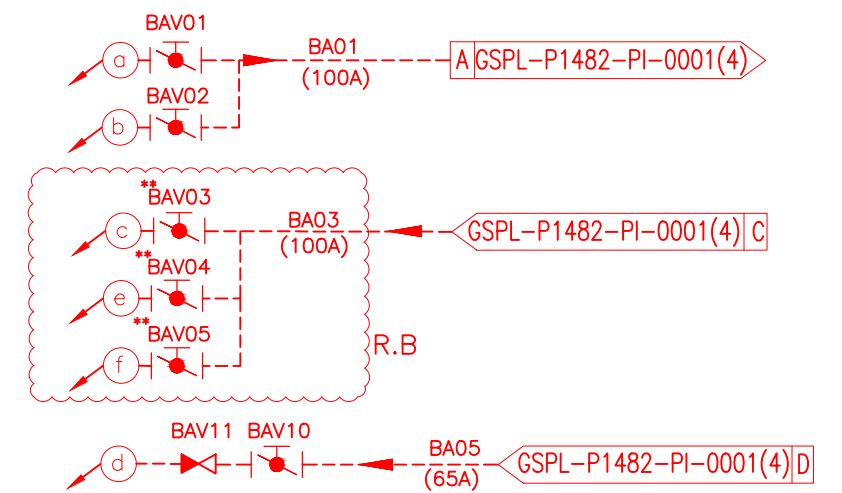
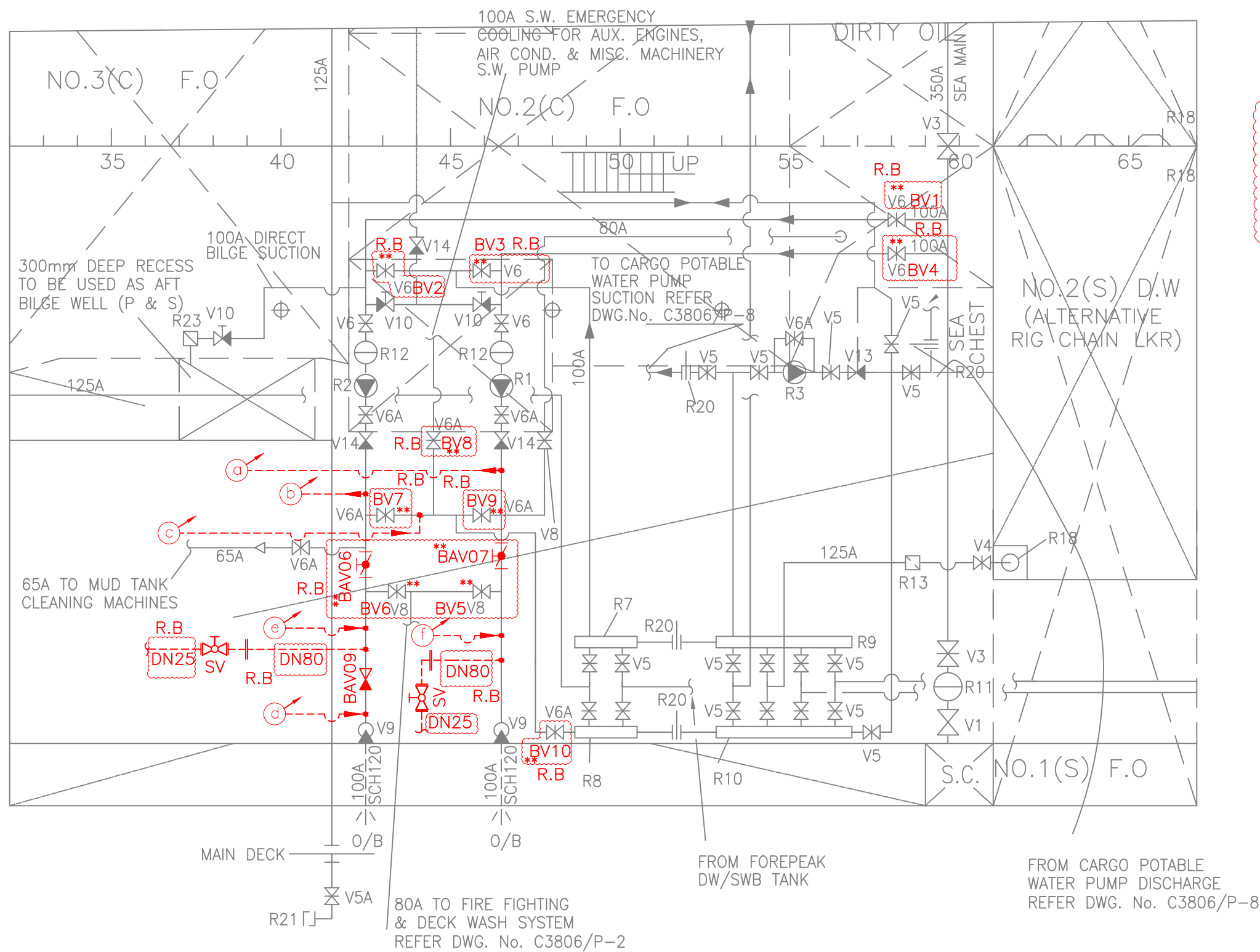
SYSTEM	DESIGN CONDITION		CLASS	TESTING		NOM. DIA.	PIPE	FITTINGS/FLANGE			GASKET	COATING	VALVE		REMARKS
	PRESSURE (bar)	TEMP. (°C)		MEDIUM	PRESSURE (bar)		MATERIAL & SCHEDULE	MATERIAL (FITTINGS)	MATERIAL (FLANGES)	FLANGE RATING			MATERIAL		
													BODY	TRIM	
BWTS	6	AMB	III	WATER	9	300A TO 600A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K /PN10	NON ASBESTOS	HOT-DIP GALVANIZED	CAST IRON	AL. BRONZE	
						200A TO 250A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K/ PN10					
						50A TO 150A	JIS G3454 STPG370,Sch40	JIS B2312 PG370	JIS B2220 SF440	JIS 5K/ PN10	NON ASBESTOS	HOT-DIP GALVANIZED	BRONZE	BRONZE	
						15A TO 40A									

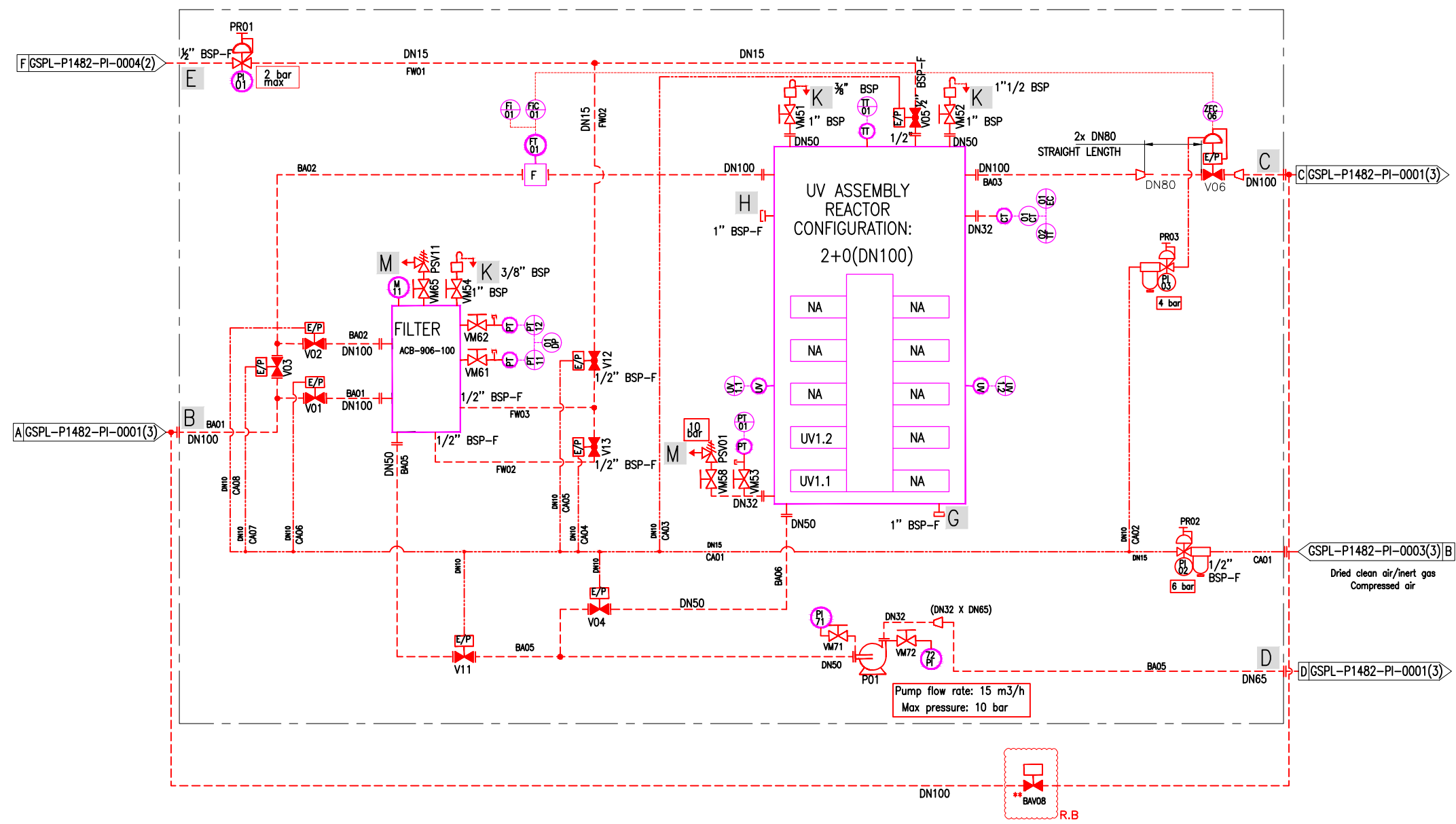
ITEM LIST			
No.	ITEM	ITEM NO.	REMARKS
1	PIPE	BA01-BA06	
2	VALVE	BAV01-BAV11	
3	SAMPLING DEVICE	SV	
4	FLOW METER	⊙	

Symbol	Name	NOTES	
	BWTS Line	1	VALVE ACTUATION MEANS IS PROVIDED VIA INSTRUMENT AIR
	BWTS Control & Auxiliary Air Line	2	QUALITY AND PRESSURE OF COMPRESSED AIR SHALL MEET BWTS MAKER STANDARDS
	Pressure reducing valve	3	VALVES MARKED WITH ** SYMBOL TO BE MONITORED DURING BWTS OPERATION.
	Electropneumatic ball valve	4	VALVE BAV08 ACT AS BYPASS VALVE FOR THE BWTS.
	Electropneumatic butterfly valve	5	THE SPILLAGE LINE SUITABLY ROUTED TO NEAR BILGE WELL/SCUPPER
	Manual valve	6	REFER BIOSEA BWTS (OMSM)
	Electropneumatic control valve		
	Pressure safety valve		
	Vent		
	Sensor		
	Flowmeter		
	Centrifugal pump		
	Flexible sleeve		
	Ejector or eductor		
	Butterfly valve		
	Check Valve		
	Air Filter		

[illegible]







B	Main water inlet
C	Main water outlet
D	Water discharge (backwash & draining)
E	Fresh water inlet
F	Air inlet
G	"To CIP inlet" connection
H	"From CIP outlet" connection
I	"To Stripping ejector" connection
J	"From Stripping ejector" connection
K	Vent outlet to gutter or bilge water
M	Safety valve outlet to gutter or bilge water

CT	Conductivity transmitter	PR	Pressure reducing valve
DP	Differential pressure	PSV	Pressure safety valve
EC	Electrical conductivity	PT	Pressure transmitter
F	Flow sensor	TT	Temperature transmitter
Fi	Flow information	UV	UV irradiance
FiC	Flow control	V	Valve
FT	Flow transmitter	VM	Manual valve
HA	Visual and audible alarm	ZEC	Control valve opening
P	Pump		
PI	Pressure indicator (indicative values, for information only)		