

- NOTES**
- ALL PIPES ARE SIZED TO ENSURE THE FLOW VELOCITIES ARE BETWEEN 0.75 AND 3.75 m/s.
  - ALL ITEMS SHOWN SUPPLIED AS LOOSE COMPONENTS.
  - SHIPYARD TO INSTALL.
  - ALL FLANGES JIS 10K.
  - ALL PIPING AND CABLE TO BE SUPPLIED AND INSTALLED BY OTHERS.
  - 316SS/TRAFFOLYTE TAG NO. LABELS CAN BE SUPPLIED BY SIEMENS (CLIENT TO ADVISE MATERIAL AND NUMBERING).
  - EFFECTIVE TREATMENT ASSUMES ONE OFF DOSING LINE TO BE OPERATING AT ANY ONE TIME:-  
 F VALVE 'Z1' IS OPEN THEN 'Z2' IS CLOSED.  
 F VALVE 'Z2' IS OPEN THEN 'Z1' IS CLOSED.  
 VALVE 'X' AND 'Z' ADJUSTS FLOW RATE.
  - ENCLOSURES/ EQUIPMENT TO BE SUPPLIED PAINTED AS FOLLOWS:-

MUNSELL BG 7/2 (BLUE/GREEN)
TRANSFORMER/RECTIFIER
SW PUMP STARTER
SW PUMP MOTOR

**GENERAL**

FLOW REQUIRED : 11m<sup>3</sup>/h NOMINAL  
 ELECTROLYSER : 2 x 100%  
 PRESSURE AT INLET : 0.5 TO 1 barg  
 PRESSURE MIN. OPERATING : 4.5 barg (ELECTROLYSER)  
 PRESSURE MAX. DESIGN : 8 barg (ELECTROLYSER)  
 TEMP. SUPPLY SEAWATER : 32°C MAX.  
 TEMP. DESIGN SEAWATER : 40°C MAX.  
 TEMP. DESIGN AMBIENT : 50°C MAX.  
 PIPING MATERIAL : CS (PE LINED)  
 CHLORIDE CONC. SEAWATER : 19g/l (TYPICAL)  
 CAPACITY ELECTROLYSER : 24000m<sup>3</sup>/h (TREATABLE) AT 0.5ppm

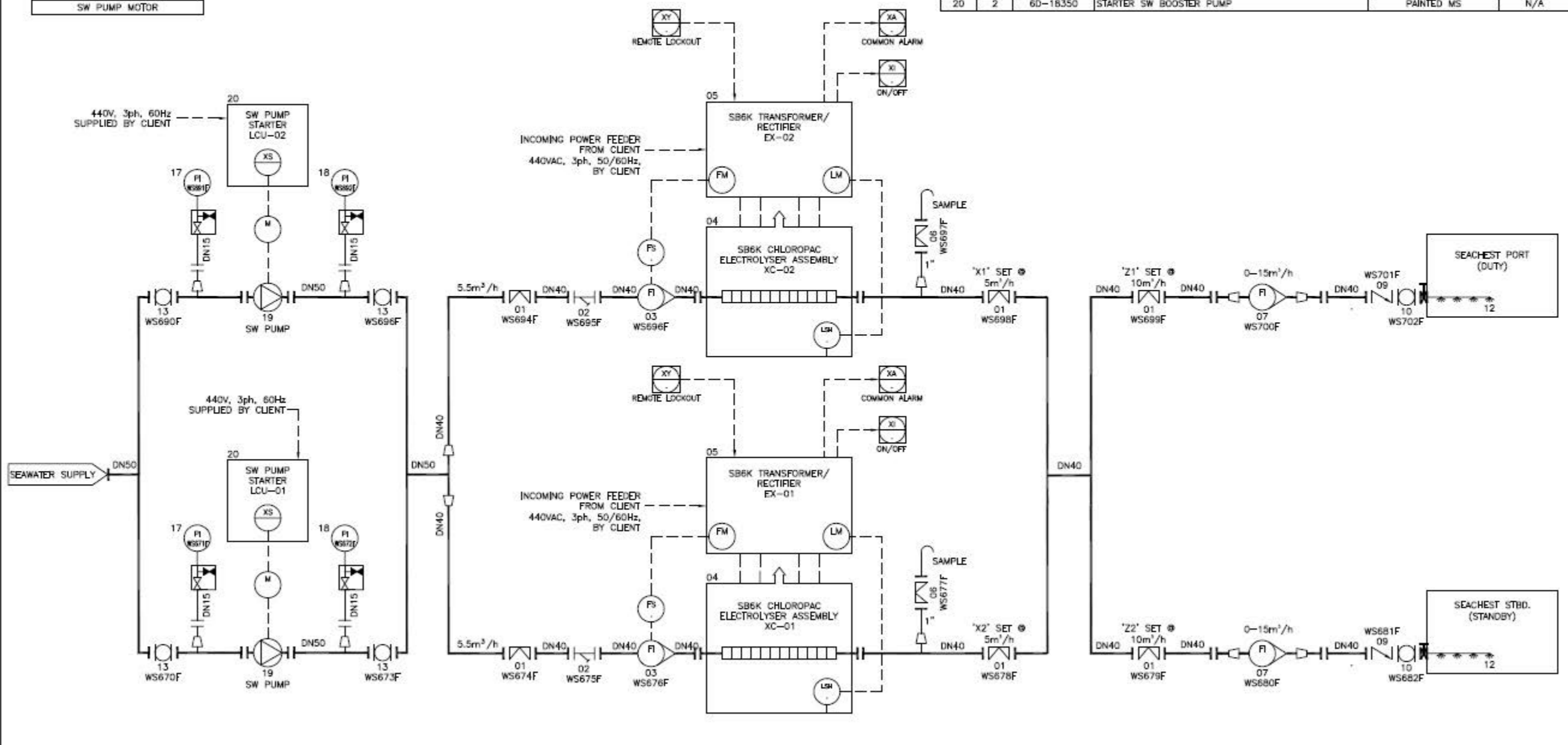
**TRANSFORMER/RECTIFIER (SB6K)**

POWER CONSUMPTION : 52kW  
 OUTPUT : 90VDC, 440A

**SW BOOSTER PUMP (2 x 100%)**

NPSH REQUIRED : 9m<sup>3</sup>/h  
 DUTY FLOW RATE : 9m<sup>3</sup>/h  
 HEAD @ DUTY FLOW RATE : 54m  
 HEAD (MAX. CLOSED VALVE) : 62m

ITEM	QTY.	DRG. NO.	DESCRIPTION	MATERIAL	PRESS. DROP (bar)
01	6	6D-16982	VALVE DIAPHRAGM DN40 JIS 10K	CI RUBBER LINED	0.05
02	2	6D-18278	STRAINER, SINGLE BASKET, DN40 DRILLED JIS 10K	BRONZE/MONEL	0.10
03	2	6D-18328	FLOWSWITCH ASSY. DN40 JIS 10K	CPVC	0.10
04	2	6D-18345	SB6K HYPO ELECTROLYSER ASSY DN40 JIS 10K	Ti/ABS/316SS	3.50
05	2	6D-17636	SB6K TRANSFORMER/RECTIFIER	PAINTED MS	N/A
06	2	6D-16980	VALVE DIAPHRAGM DN25 JIS 10K	CI RUBBER LINED	N/A
07	2	6D-18325	FLOW INDICATOR ASSY. 0-15m <sup>3</sup> /h DN40 JIS 10K	PA/PVDF/CPVC	0.01
09	2	6D-17750	VALVE CHECK DN40 JIS 10K	CS PFA LINED	0.10
10	2	6D-18320	VALVE SHIPSIDE DN40 JIS 10K	DI FEP LINED	0
12	2	6D-18342	DISPERSAL PIPE DN40 JIS 10K 1850mm LG CUST. 2	TITANIUM	N/A
13	4	6D-18344	VALVE BALL DN50 JIS 10K	DI FEP LINED	0
17	2	6D-18144	PRESSURE INDICATOR 0-2.5BAR C/W 2-WAY MANIFOLD	ALLOY 400/316	N/A
18	2	6D-18144	PRESSURE INDICATOR 0-10BAR C/W 2-WAY MANIFOLD	ALLOY 400/316	N/A
19	2	6D-18343	PUMP SW BOOSTER DN50 JIS 10K	TITANIUM	N/A
20	2	6D-18350	STARTER SW BOOSTER PUMP	PAINTED MS	N/A



C	TREATABLE VOLUME WAS 10000.	20.02.12	CL	SCE	NF	
B	CUSTOMER COMMENTS.	01.02.12	CL	NF	CWH	
REV	DESCRIPTION	DATE	DWN	CHKD	APVD	ECN

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DESIGNER: CL DATE: 23.01.12  
 CHECKER: NF DATE: 27.01.12  
 ENGINEER: NF DATE: 27.01.12  
 DRAWING NUMBER: NF DATE: 27.01.12  
 FILE: .  
 SCALE: .

**TITLE**  
 P & I DIAGRAM  
 SB6K ELECTROCHLORINATION SYSTEM  
 HULL 2031

**CLIENT**  
 GOLAR FSRU  
 SAMSUNG HEAVY INDUSTRIES

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PROJECT: 70PO-02727  
 CODE: .  
 DRAWING: 6D-18302  
 SHEET: 1 of 1  
 REV: C