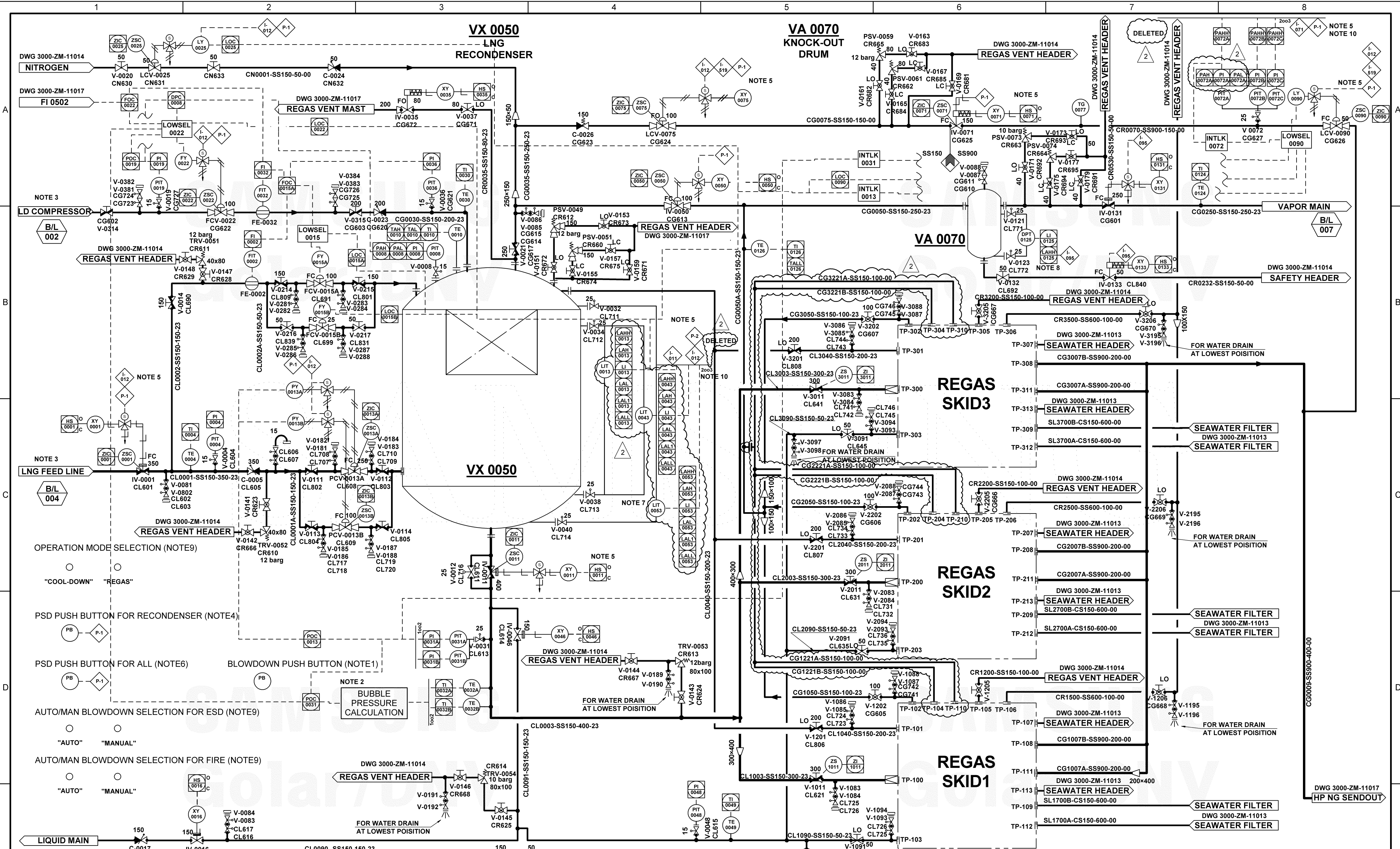


1	2	3	4	5	6	7	8				
PIPING SYMBOL	VALVE SYMBOL	CONTROL AND OPERATING DEVICE	TAGGING OF PIPING AND LINE	TAGGING OF INSTRUMENTATION / EQUIPMENT	IDENTIFICATION OF PIPING		IDENTIFICATION OF PIPING				
NOT CONNECTED CROSSING PIPES CONNECTED CROSSING PIPES TEE PIPE FLEXIBLE JOINT FLEXIBLE PIPE JOINT FLANGED JOINT REDUCER SCREWED JOINT WELDED JOINT SLEEVE TYPE EXPANSION JOINT DRESSER TYPE EXPANSION JOINT BELLOWS TYPE EXPANSION JOINT RUBBER COMPENSATOR EXPANSION PIPE JOINT BLANK(BLIND) FLANGE SPOOL PIECE HOSE COUPLING SPECTACLE FLANGE (OPEN) SPECTACLE FLANGE (CLOSE) CONICAL TYPE STRAINER SIMPLEX STRAINER Y TYPE STRAINER ORIFICE FLOWMETER RUPTURE DISC OFF CONNECTION PIPING SPEC BREAK TIE POINT BATTERY LIMIT	GLOBE STOP VALVE 3-WAY VALVE LIFT CHECK VALVE <small>(ARROWHEAD MAY BE OMITTED)</small> SCREW DOWN STOP CHECK VALVE <small>(ARROWHEAD MAY BE OMITTED)</small> SWING CHECK VALVE <small>(ARROWHEAD MAY BE OMITTED)</small> PRESSURE REDUCING VALVE SPRING LOADED CHECK VALVE (FLAP) <small>(ARROWHEAD MAY BE OMITTED)</small> FLAP SWING CHECK VALVE <small>(ARROWHEAD MAY BE OMITTED)</small> SAFETY VALVE SELF CLOSING VALVE <small>(ARROWHEAD MAY BE OMITTED)</small> REGULATING VALVE BUTTERFLY VALVE (WAFER) BUTTERFLY VALVE <small>(FLANGED OR LUGGED)</small> GATE VALVE HOSE VALVE NEEDLE VALVE RELIEF VALVE COCK 3-WAY COCK (L-PORT) 3-WAY COCK (T-PORT) BALL VALVE 3-WAY BALL VALVE (L-PORT) 3-WAY BALL VALVE (T-PORT) REMOTE OPERATED VALVE SELF REGULATING VALVE	HAND-OPERATED REMOTE CONTROL SPRING WEIGHT FLOAT HYDRAULIC CONTROL DIAPHRAGM MEMBRANE ELECTRIC MOTOR DRIVEN AIR MOTOR DRIVEN SOLENOID DRIVEN WAX DRIVEN LOCKED CLOSED LOCKED OPENED NORMAL OPENED NORMAL CLOSED THE SIGNAL IS HARD WIRED <small>TO MAIN DCS</small> HYDRAULIC CONTROL WITH <small>SINGLE ACTING ACTUATOR</small>	<p style="text-align:center;">AA B XXX Y EENN DD CC</p> <p>AA IDENTIFICATION OF PIPING</p> <p>B EQUIPMENT LOCATION CODE</p> <p>XXX SEQUENTIAL NUMBER</p> <p>Y PARALLEL ITEM</p> <p>EENNN PIPING CLASS IDENTITY</p> <p>DD NOMINAL DIAMETER (DN)</p> <p>CC INSULATION CLASS</p>	<p style="text-align:center;">AA B XXX Y</p> <p>AA IDENTIFICATION OF LETTER / EQUIPMENT</p> <p>B EQUIPMENT LOCATION CODE</p> <p>XXX SEQUENTIAL NUMBER</p> <p>Y PARALLEL ITEM</p>	<p>CL LIQUID LINE</p> <p>CS SPRAY / STRIPPING LINE</p> <p>CG VAPOUR / GAS LINE</p> <p>CN NITROGEN LINE</p> <p>CR RELIEF LINE</p> <p>SA SAMPLING LINE</p> <p>FM FLOW METER</p> <p>SL SEAWATER LINE</p>		<p>CA REGENERATIVE FILTER</p> <p>HA SHELL AND TUBE HEAT EXCHANGER</p> <p>PA CENTRIFUGAL PUMP</p> <p>VA SEPERATOR</p>				
				IDENTIFICATION OF LETTERS		EQUIPMENT IDEDNTIFICATION					
				1st LETTER	2nd LETTER	3rd LETTER	4th LETTER	5th LETTER			
				A	ABSOLUTE	ALARM / ABNORMAL	ALARM		CA	REGENERATIVE FILTER	
				C		CONTROL	CONTROL / CLOSE	CONTROL		HA	SHELL AND TUBE HEAT EXCHANGER
				D	DIFFERENTIAL	DIFFERENTIAL				PA	CENTRIFUGAL PUMP
				E	EXTREME	ELEMENT	EXTREME	ELEMENT		VA	SEPERATOR
				F	FLOW/FLOAT					INSULATION CLASS	
				G	GAS	GAUGE	GAUGE			0	NO INSULATION
				H	HAND	HIGH	HIGH	HIGH	HIGH	1	HEAT CONSERVATION
				I	CONSOLE OPERATED	INDICATOR	INDICATOR			2	COLD MEDIUM CONSERVATION
				L	LEVEL	LEVEL / LIGHT	LOW / LEVEL	LOW	LOW	3	PERSONNEL PROTECTION
				P	PRESSURE	PRESSURE	OPEN				
				O		OUTPUT					
				R		RELIEF / READY					
				S	STATE	SWITCH / SAFETY	SWITCH				
				T	TEMPERATURE	TRANSMITTER	TRANSMITTER				
				U							
				V	VERY / VELOCITY	VALVE	VALVE				
				W							
				X	VIBRATION / OTHER						
				Y							
				Z	POSITION						
				TAG BALLOONS							
				○	INSTRUMENT LOCAL						
				◻	REGAS CONSOLE INSTRUMENT REMOTE LOCATION						
				○	MAIN CONTROL PANEL MOUNTED (HARD WIRED)						
				LOW SEL	LOW SELECTOR						
				I	INTERLOCK						
EQUIPMENT SYMBOL		CONNECTION TYPE		GENERAL NOTES							
CENTRIFUGAL PUMP SHELL & TUBE HEAT EXCHANGER ELECTRICAL MOTOR SUBMERGED HIGH PRESSURE PUMP VESSEL		LINES									
		PRIMARY LINE PNEUMATIC LINE HYDRAULIC LINE CAPILLARY LINE ELECTRIC LINE SOFTWARE LINK SKID LIMITS									

						TITLE : REGAS			
						P&ID - LNG Regasification PIPING SYMBOLS AND LEGEND			
				HULL NO.: SN 2056		DWG.NO.: 3000-ZM-11001		2	00
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG HEAVY INDUSTRIES CO., LTD		
2	2015.07.23	Approval for Design	JCL	GJG	HBY				
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBY				



NOTES:

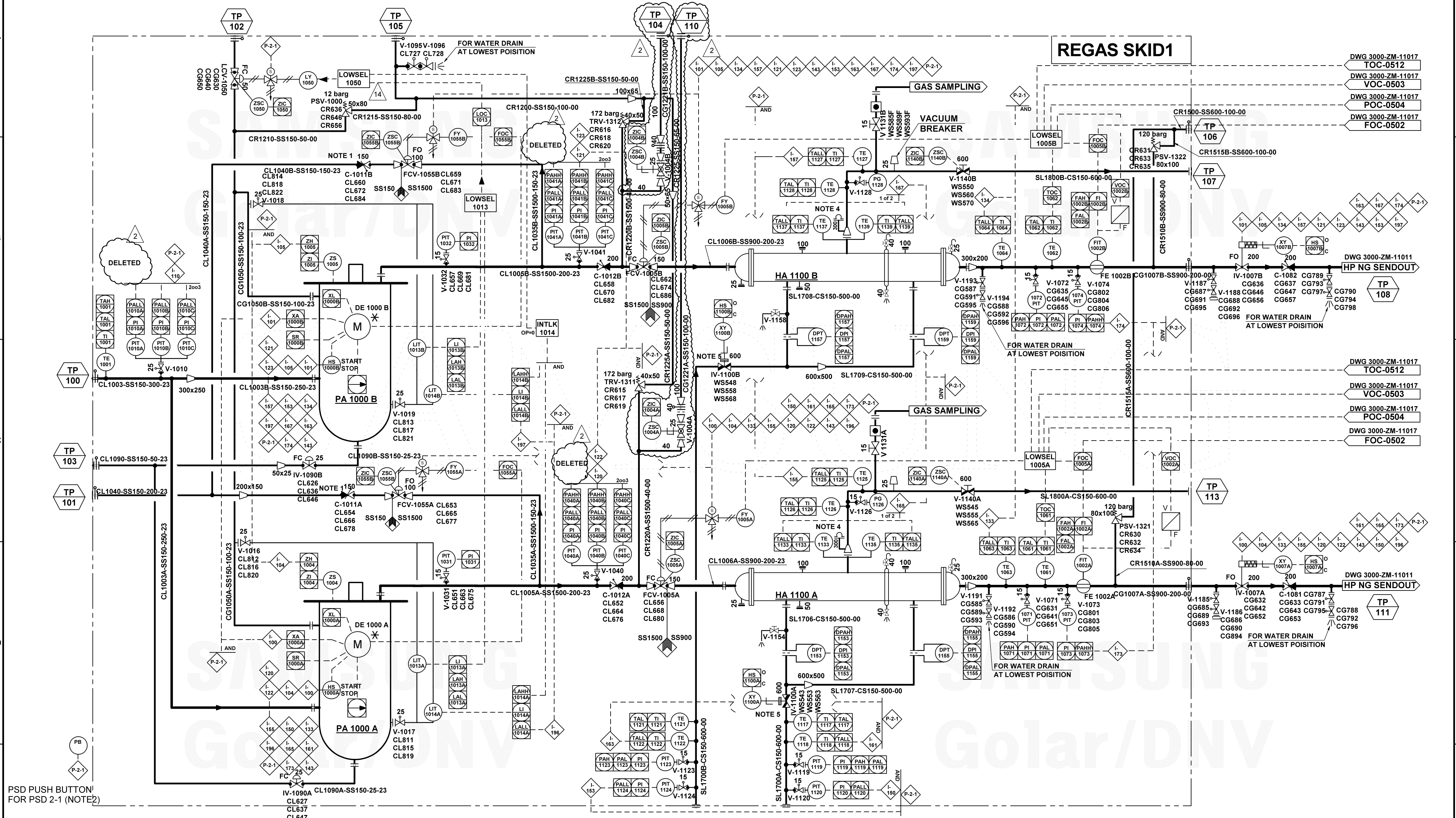
- LOCATED AT CARGO CONTROL CONSOLE.
- LD COMPRESSOR LOAD IS LIMITED BY LNG CONDITION AT THE SUCTION OF HP BOOSTER PUMP.
- COMMUNICATION SIGNALS TO BE CONFIRMED LATER.
- LOCATE AT LOCAL. (NEAR TO THE RECONDENSER)
- P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-011: LALL-LI 0013/0043/0053
I-012: LAHH-LI 0013/0043/0053
I-071: PAHH-PI 0072B/C
I-095: LAHH-LI 0125
- LOCATE AT BOSUN STORE ENTRANCE, FWD END TRUNK DK, HIGH PRESS. MANIFOLD PORT/STBD (TOTAL 4 EA AT LOCAL).
- MINIMUM DISTANCE FROM NOZZLE TO LIT: 4m.
- IF THE LEVEL IS INDICATED, INTERLOCK IS ACTIVATED.
- MODE SELECTION IS PREPARED ON THE REGAS CONTROL MIMIC.
- PSD VOTING FUNCTION AS 2 OUT OF 3 BY ONE(1) PCS SIGNAL AND TWO(2) PSD SIGNAL

TITLE : REGAS					
P&ID - LNG Regasification					
2	2015.07.23	Approval for Design	JCL	GJG	HBV
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBV
REV	DATE	DESCRIPTION	DGN	CHK	APP
HULL NO.: SN 2056					
DWG. NO.: 3000-ZM-11011					
2					
01 05					
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD					

PA 1000 A/B
HIGH PRESSURE
BOOSTER PUMP

HA 1100 A/B
LNG/SEAWATER
HEAT EXCHANGER

REGAS SKID1

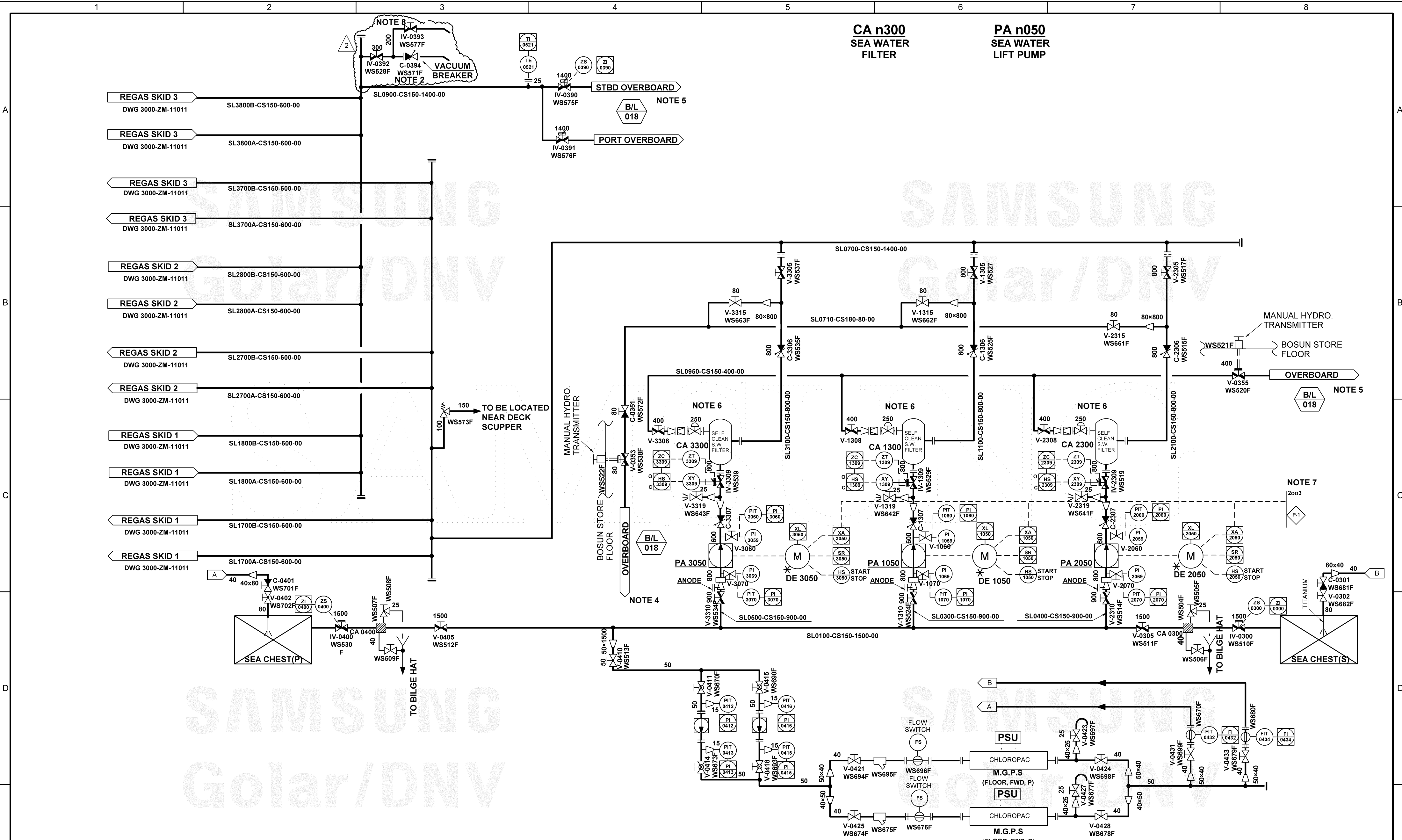


PSD PUSH BUTTON FOR PSD 2-1 (NOTE2)

NOTES:

- CONTAINS DRAIN HOLE
 - LOCATED AT NEAR TO SKID 1
 - P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2-1: PSD2 (SHUTDOWN SKID #1)
I-100: MOTOR A FAULT
I-101: MOTOR B FAULT
 - THE OUTLET FLOW OF RUPTURE DISC TO BE DIRECTED TOWARD OPEN DECK
 - THE VALVE WILL BE KEPT POSITION IN CASE OF FAILURE
- I-104: PUMP A POSITION LL (ZI 1004)
I-105: PUMP B POSITION LL (ZI 1005)
I-110: PALL-PI 1010B/1010C
I-120: PALL-PI 1040A/B/C
I-121: PALL-PI 1041A/B/C
I-122: PAHH-PI 1040A/B/C
I-123: PAHH-PI 1040A/B/C
I-133: TALL-TI 1063
I-134: TALL-TI 1064
I-143: CARGO FEED PUMP TRIP (Time delay 3min.)
- I-150: PALL-PI 1120
I-153: PALL-PI 1124
I-155: TALL-TI 1125
I-157: TALL-TI 1127
I-161: TALL-TI 1118
I-163: TALL-TI 1122
I-165: TALL-TI 1133/1135
I-167: TALL-TI 1137/1139
I-173: PAHH-PI 1073
I-174: PAHH-PI 1074
- I-196: LALL-LI 1014A
I-197: LALL-LI 1014B

TITLE : REGAS					
P&ID - LNG Regasification					
HULL NO.:		DWG. NO.:		REV	
SN 2056		3000-ZM-11012		2 02 05	
REV	DATE	DESCRIPTION	DGN	CHK	APP
2	2015.07.23	Approval for Design	JCL	GJG	HBV
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBV
SAMSUNG SAMSUNG HEAVY INDUSTRIES CO., LTD					



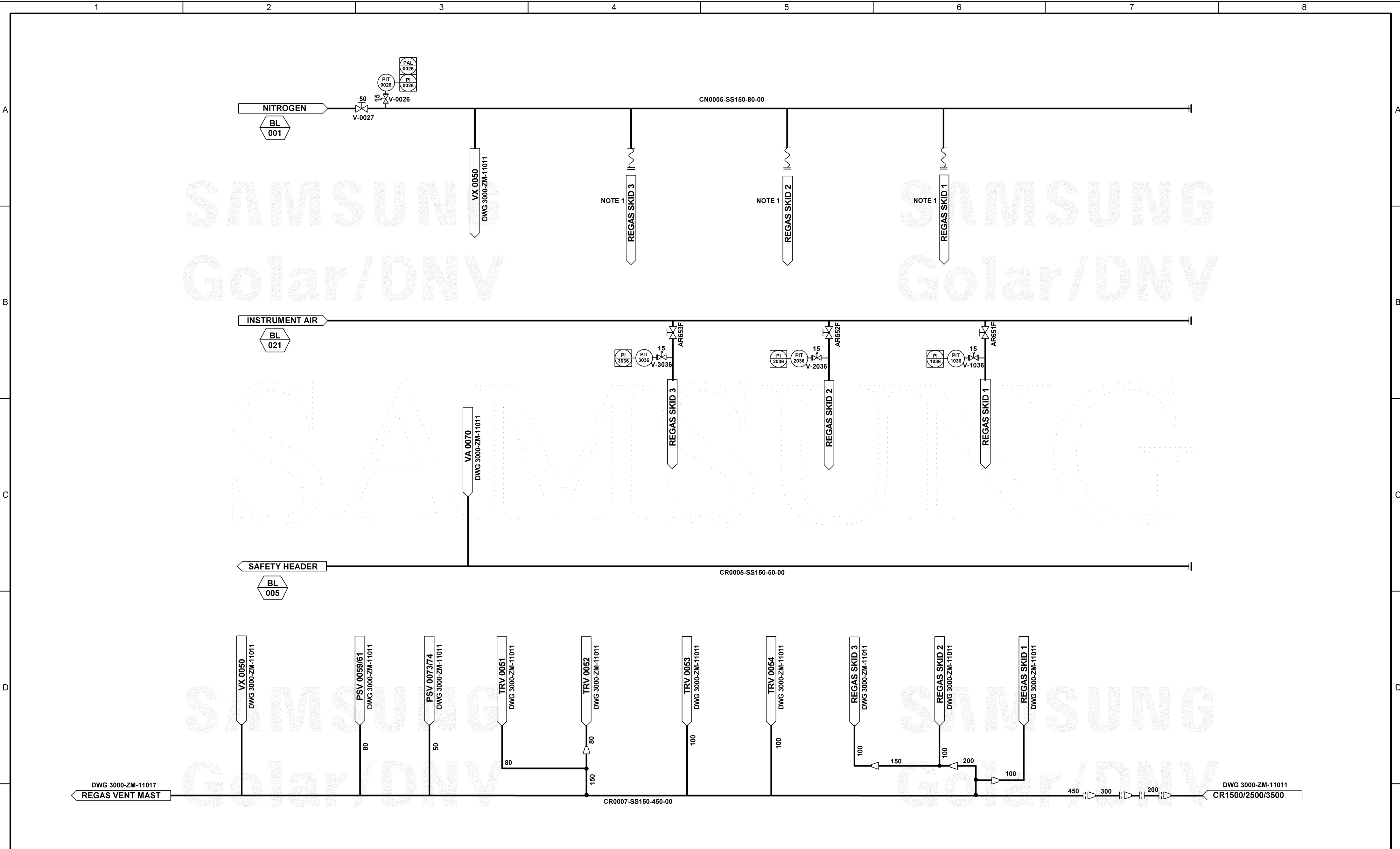
NOTES:

1. THIS DRAWING SHALL BE REVISED IN ACCORDANCE WITH VENDOR'S DESIGN
2. CONSIDER VACUUM BREAKER AT HIGHEST POINT
3. P-1: PSD1 (REGAS SYSTEM ALL PSD)
4. DRAIN OVERBOARD ABOVE SEA WATER LEVEL
5. OVERBOARD BELOW NORMAL DRAFT LEVEL.
6. ONE BY ONE SEAWATER FILTER IS FLUSHED.
7. REFER THE REGASIFICATION CONTROL PHILOSOPHY (3000-IC-15050) FOR THE DETAILS.
8. WS577F IS FOR ADJUSTING VACUUM THROUGH THE VACUUM BREAKER. THIS VALVE SHOULD BE CLOSED WHEN ANY OF SW LIFT PUMP STARTS.

**CA n300
SEA WATER
FILTER**

**PA n050
SEA WATER
LIFT PUMP**

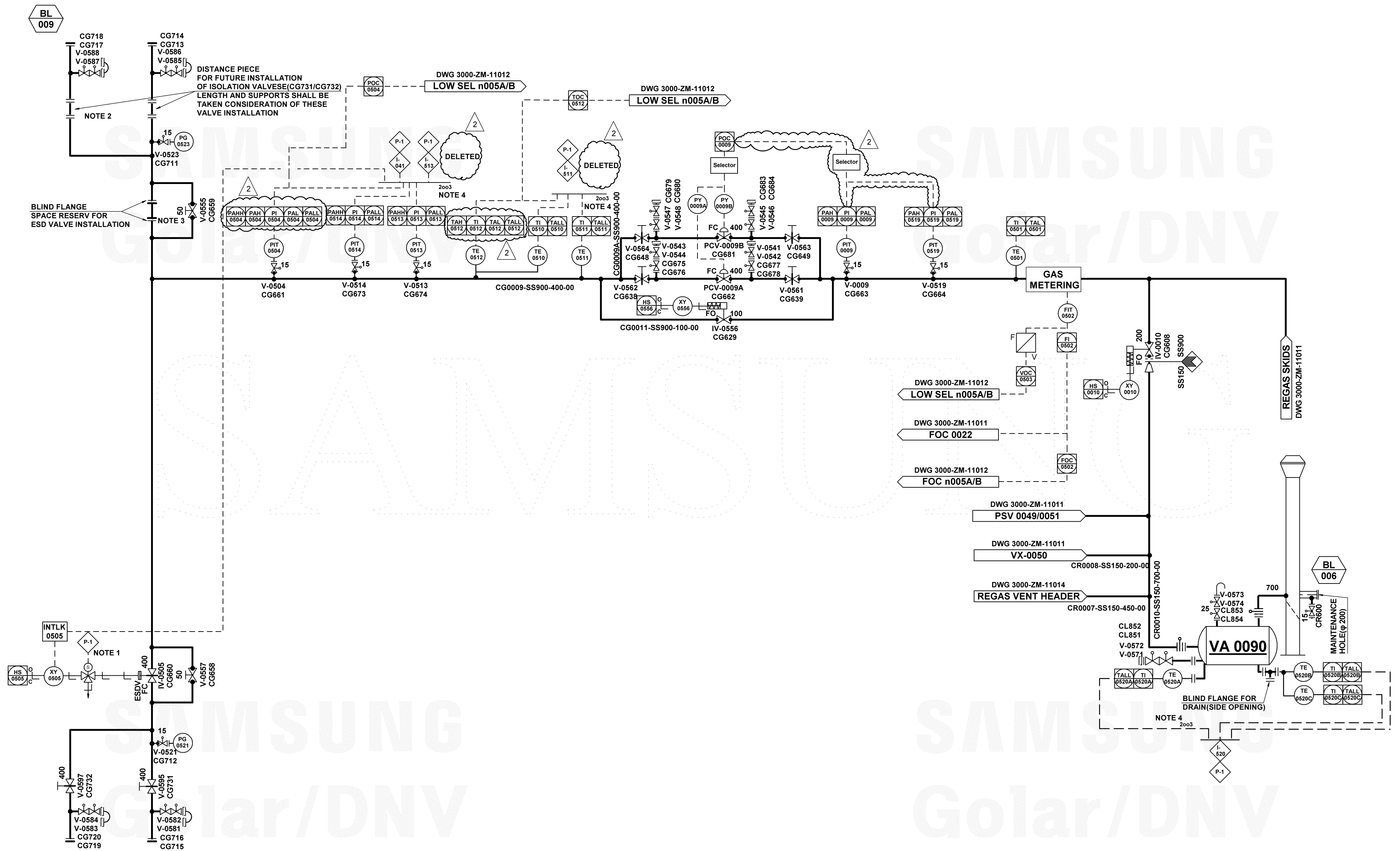
						TITLE : REGAS		
						P&ID - LNG Regasification		
						HULL NO.:	DWG. NO.:	
						SN 2056	3000-ZM-11013	2
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG HEAVY INDUSTRIES CO., LTD	
2	2015.07.23	Approval for Design	JCL	GJG	HBV			
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBV			



NOTES:
 1. N2 SUPPLY CONNECTION
 FOR HP BOOSTER PUMP ROTOR SUPPORT SYSTEM

							TITLE : REGAS					
							P&ID - LNG Regasification SAFETY HEADER / NITROGEN DISTRIBUTION					
							HULL NO. : SN 2056		DWG. NO. : 3000-ZM-11014		2 / 04 / 05	
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT	SAMSUNG HEAVY INDUSTRIES CO., LTD					
2	2015.07.23	Approval fo Design	JCL	GJG	HBY							
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBY							

VA 0090
VENT KNOCK-OUT
DRUM



1. P-1: PSD1 (REGAS SYSTEM ALL PSD)
P-2: PSD2 (SHUTDOWN SKID)
I-041: PAHH-PI 0504/0513/0514
I-511: TALL-TI 0511/0512
I-513: PALL-PI 0504/0513/0514
I-519: PAHH-PI 0519
I-520: TALL-TI 0520A/B/C
2. DISTANCE PIECE FOR FUTURE INSTALLATION OF ISOLATION VALVES (V-0595/ V-0597) LENGTH AND SUPPORTS SHALL BE TAKEN CONSIDERATION OF THESE VALVE INSTALLATION
3. BLIND FLANGE SPACE RESERV FOR ESD VALVE INSTALLATION
4. PSD VOTING FUNCTION AS 2 OUT OF 3 BY ONE(1) PCS SIGNAL AND TWO(2) PSD SIGNAL

TITLE : REGAS						
P&ID - LNG Regasification HIGH PRESSURE NG SENDOUT LINE						
HULL NO.:		DWG. NO.:				
SN 2056		3000-ZM-11017		2 05		
REV	DATE	DESCRIPTION	DGN	CHK	APP	CLIENT
2	2015.07.23	Approval for Design	JCL	GJG	HBV	
1	2014.12.04	History continued from SN2031/2024	JCL	GJG	HBV	
SAMSUNG HEAVY INDUSTRIES CO., LTD						