



- NOTES**
- REFER TO LEGEND SHEETS 168397-100-PR-PI-0001 TO 0012 FOR DETAILS OF PIPING CLASS, INSULATION, EQUIPMENT TYPES, INSTRUMENT DETAILS, VALVES AND SPECIFIC HOOK-UP REQUIREMENTS.
- LINE MAY BE SUBJECT TO SLUGGING.
2. LV-11103, LV-12103 AND LV-12103 TO BE LOCATED AT A MINIMUM DISTANCE FROM INLET NOZZLE, N1.
3. LIQUID OUTLET TO HAVE UPSTAND.
4. PIPING DESIGN TO ENSURE ANY BENDS CLOSE TO THE INLET NOZZLE ARE IN THE VERTICAL PLANE.
5. DELETED.
6. DELETED.
7. CORROSION PROBE LOCATED 45° OFF BOTTOM OF PIPE. CONNECTION IS 2" FLANGED FOR ACCESS FITTING.
8. 4" NOZZLE AND FLANGE FOR INTERNAL NUCLEONIC SOURCE AND DIP TUBE ON INTERFACE DUTY.
9. DELETED.
10. DELETED.
11. DELETED.
12. VESSEL LOCATED IN BUNDED AREA.
13. MINIMUM DISTANCE BETWEEN BLOCK VALVES TO MINIMISE TRAPPED VOLUME.
14. DELETED.
15. DELETED.
16. PRESSURISATION CONNECTION, UTILITY CONNECTION NOT TO BE USED DURING VESSEL PRESSURISATION.
17. DELETED.
18. DELETED.
19. SAMPLE POINT CONNECTION TO BE FROM TOP OF PIPE.
20. FLUSHING POINT TO ENABLE ANY POTENTIAL SAND BUILD UP IN AQUEOUS UPSTAND TO BE FLUSHED BACK INTO VESSEL.
21. SEE P&ID 168397-100-PR-PI-1401-02 FOR DETAILS OF SAND REMOVAL NOZZLES.
22. DELETED.
23. PASSIVE FIRE PROTECTION TO EXTEND BELOW LLLL. LIQUID SECTION TO ALSO HAVE PFP. MAXIMUM UNPROTECTED AREA BELOW LLLL NOT TO EXCEED 8.5m². VESSEL SADDLES/ SUPPORTS TO BE PROTECTED.
24. PFP TO BE APPLIED TO PIPE SUPPORTS ON OUTBOARD PIPERACK ONLY.
25. ELEVATION IS REFERENCED TO VESSEL CENTRE LINE.
26. BDV-14131 ACTUATOR REQUIRES PASSIVE FIRE PROTECTION AND BLAST PROTECTION.
27. PFP TO BE APPLIED TO SDV, ITS MEANS OF SUPPORT AND ACTUATOR AND SHOULD BE PROTECTED FROM BLAST.
28. SEPARATOR PRESSURE INDICATION TO BE READABLE FROM PRESSURISATION GLOBE VALVE.
29. DRAIN TO BE TAKEN FROM PIPING LOW POINT.
30. CORROSION PROBE LOCATED OFF BOTTOM OF PIPE BETWEEN 5 AND 7 O'CLOCK. ACCESS SHALL BE PROVIDED FOR REMOVAL.
31. CONNECTION 2" FLANGED FOR ACCESS FITTING.
32. PFP TO BE APPLIED UP TO AT LEAST HHLL IN V-1401.

Z1	25/07/2014	AS BUILT INC. RN 05 - 08	JPN	JG	JG	SH	JM
1H	18/05/2012	REVISED FOR CONSTRUCTION INC. RN 03 - 04	TSC	MF	RJD	IV	SA
0H	27/01/2012	AFC INC. RN 02	IF	MF	RJD	IV	SA
D2	24/10/2011	REVISED FOR DESIGN INC. RN 01	IF	TC	RJD	IV	SA
D1	04/07/2011	APPROVED FOR DESIGN	JP	IF	RJD	IV	SA
Z2	29/11/2021	AS-BUILT FOR GMOC0560	TPK	TF	JL	TR	
REV	DATE	DESCRIPTION	DRN	CHK	APP	CLT	



TITLE:
**PIPING & INSTRUMENT DIAGRAM
SECOND STAGE SEPARATOR**

SCALE (A1): NTS

ASSAI No: PR08PU0070

CONTRACT No: 168397

CLIENT CONTRACT No: GEA-CT-CON-00808

DRAWING No:
168397 - 100 - PR - PI - 1401 - 01

REV
Z2

- NOTES CONT.**
33. INTERFACE LEVEL CONTROL TO BE SELECTABLE VIA ICSS TO ALLOW GAP OR PID CONTROL.
34. PW RECYCLE PUMPS WILL NOW OPERATE IN PARALLEL UNDER FOLLOWING CONDITIONS:
- GAP CONTROL-**
- IF LIC-14106 LEVEL RISES TO HIGH 1 DUTY PUMP WILL START.
- IF LIC-14106 LEVEL CONTINUES TO RISE TO HIGH 2 STAND-BY PUMP WILL START.
- WHEN LIC-14106 LEVEL DROPS TO LOW1 BOTH PUMPS WILL STOP.
- PID CONTROL-**
- UNDER NORMAL PID CONTROL DUTY PUMP WILL OPERATE
- IF LIC-14106 LEVEL RISES TO HIGH 2 BOTH PUMPS WILL RUN.
- WHEN LIC-14106 LEVEL DROPS TO LOW 1 STAND-BY PUMP WILL STOP AND DUTY RETURNS TO PID CONTROL.