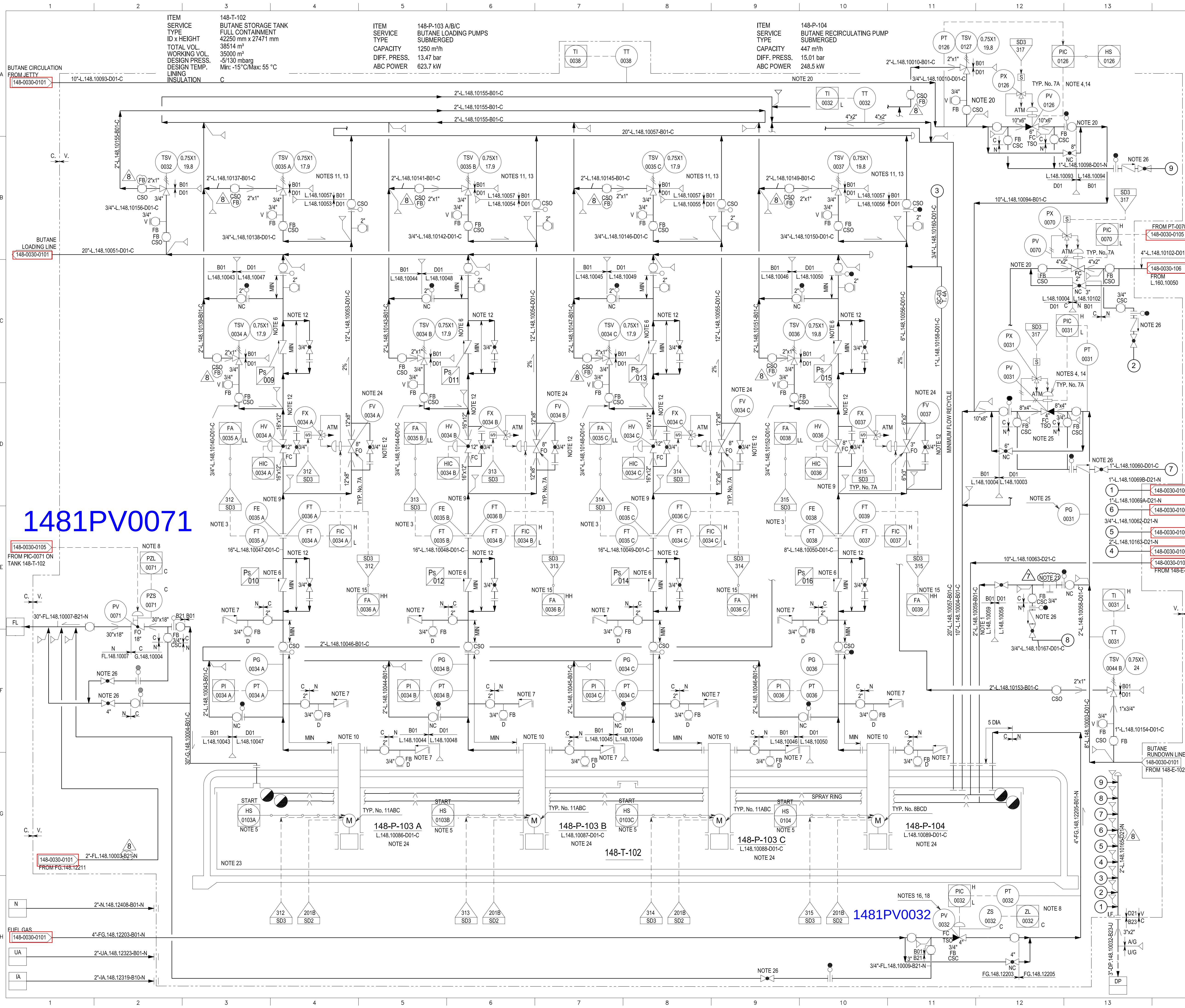




- ### NOTES
- DELETED.
 - ALL VALVES ON THIS P&ID TO BE TANK ROOF MOUNTED.
 - OPERATIONAL OVERRIDE WITH A MAX 10-20 sec TIME DELAY IS REQUIRED TO ALLOW PUMP START-UP.
 - LOCATE ON TANK ROOF. CLOSE TO TANK INLET FLANGE.
 - ENSURE RECYCLE VALVE IS OPEN PRIOR TO PUMP START; ALSO ENSURE THE RECYCLE VALVE IS CLOSED ON THE OTHER TANK.
 - NON SLAM VALVE TO OPEN OR CLOSE FULL STROKE IN TWO SECONDS.
 - NITROGEN CONNECTION FOR MAINTENANCE. MINIMUM DISTANCE BETWEEN CHECK AND BALL VALVE.
 - ALARM WHEN NOT CLOSED.
 - CONNECT TO TOP OF LINE.
 - PUMP JUNCTION BOX PURGE DETAIL BY EQUIPMENT SUPPLIER.
 - HIGH POINT.
 - BY PASS CONNECTIONS TO BE MADE FROM TOP OF LINE.
 - PIPING CONFIGURATION TO BE SUCH THAT PUMP DISCHARGE PIPING MINIMUM FLOWLINE (UP TO THE MANIFOLD) IS FLOODED AT ALL TIMES.
 - SLOW CLOSURE. 30-60 s.
 - HIGH FLOW TRIP AT 120% OF DESIGN CAPACITY.
 - PV-0032 TO BE LOCATED ON TOP OF TANK.
 - DELETED.
 - PROVIDE MECHANICAL STOP TO PREVENT FULL OPENING.
 - DELETED.
 - VALVE AND DOWN STREAM LINE TO BE SUPPORTED FOR 2 PHASE FLOW.
 - TO BE USED IN THE EVENT OF EXCHANGER BY PASS IN USE.
 - DELETED.
 - PUMP WILL BE TRIPPED BY VIBRATION HIGH HIGH:
148-P-101 A/B/C BY VSHH 0101 A/B/C
148-P-102 BY VSHH 0102
 - OPEN LIMIT SWITCH IS PERMISSIVE TO START RELATED PUMP.
 - PG-0031 SHOULD BE READABLE FROM GLOBE VALVE.
 - MIN DISTANCE BETWEEN BLOCK VALVE AND GLOBE VALVE SHALL BE 600mm.
 - ORIFICE FLANGE OF FE-0035A/B/C AND FE-0038 SHALL BE TRIPLE TYPE SUITABLE FOR INSTALLING 3 FT.

GENERAL NOTES

ALL INSTRUMENT TAGS TO READ:
LETTERS NUMBER
1481 FFFF NNNN

IS APPLICABLE ONLY FOR PIPING DESIGN SCOPE NOT FOR SUPPLY SCOPE.

EQUIPMENT LIST

PUMPS	TANK
148-P-103 A/B/C	148-T-102
148-P-104	

UTILITY PID NUMBER

FL	PID-1718-191-0040-0004 (SHEET 2 OF 2)	
IA/UA	PID-1718-191-0040-0002	N PID-1718-191-0040-0002
DP	PID-1718-191-0040-0005	

FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	ORIG.	PREP.	CHKD.	APPD.	AUTH.
8	07.JAN.2015	APPROVED FOR CONSTRUCTION	IDRO	RT	GS	GS	MD
7	04.FEB.2013	APPROVED FOR CONSTRUCTION	IDRO	RS	NS	MF	AKH
6	08.JAN.2012	APPROVED FOR CONSTRUCTION	IDRO	SB	NS	MF	AKH
5	07.DEC.2010	ISSUED FOR APPROVAL	IDRO	MK	NS	MF	AKH
4	30.DEC.2009	ISSUED FOR APPROVAL	IDRO	NB	AD	MF	AKH
3	15.DEC.2008	ISSUED FOR COMMENT	IDRO	NB	NZ	MF	AKH
2	01/02/08	APPROVED FOR DESIGN	WP	RI	AF	RPW	MS
1	26/10/07	ISSUED FOR HAZOP	WP	RI	AB	RPW	MS
0	08/08/07	ISSUED FOR COMPANY APPROVAL	WP	RI	AF	RPW	MS

SOUTH PARS GAS FIELD DEVELOPMENT - PHASES 17 & 18, ASSALUYEH-IRAN ONSHORE FACILITIES

PROJECT No.: POGC-84-801-244 DOC. CLASS. 1 SCALE: N/A

WORKPERS IDRO OIEC

TITLE: UNIT 148: BUTANE STORAGE AND EXPORT BUTANE STORAGE TANK PIPING AND INSTRUMENT DIAGRAM

DWG No.: PID-1718-148-0030-0103 SHEET No. 1 OF 1 REV. 8

SIZE: A1