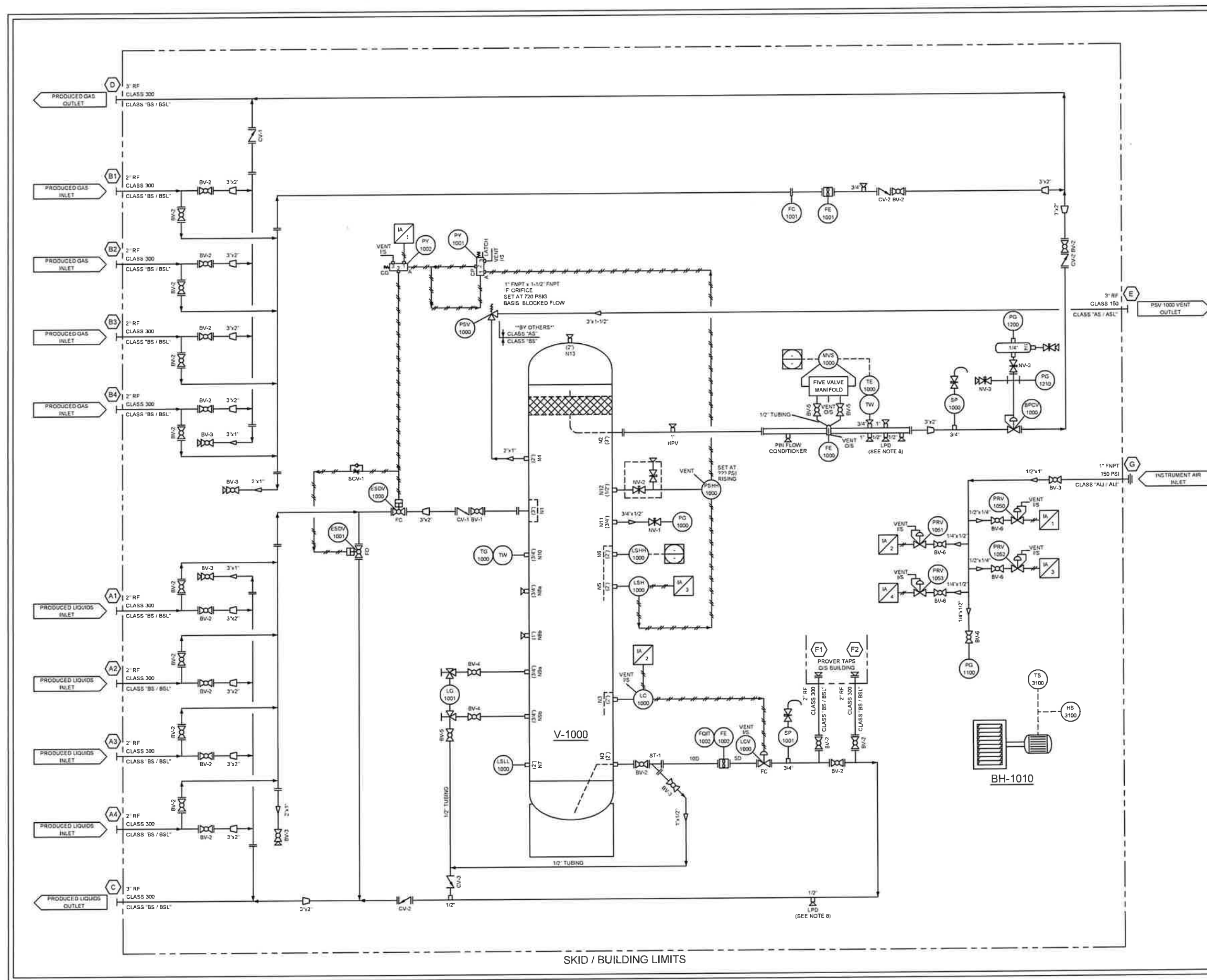




Issued for Construction
CP DEC 04 2024

PACKAGE CONNECTION SCHEDULE				
A1 - A4	2" RF, CLASS 300, PRODUCED LIQUIDS INLET			
B1 - B4	2" RF, CLASS 300, PRODUCED GAS INLET			
C	3" RF, CLASS 300, PRODUCED LIQUIDS OUTLET			
D	3" RF, CLASS 300, PRODUCED GAS OUTLET			
E	3" RF, CLASS 150, PSV 1000 VENT OUTLET			
F1 / F2	2" RF, CLASS 300 C/W 2" FNPT (PLUGGED); LIQUIDS PROVER OUTLET / INLET			
G	1" FNPT, 150 PSI, INSTRUMENT AIR INLET			
0	ISSUED FOR CONSTRUCTION		FP	KRD 12/03/24
REV.	DESCRIPTION		BY	CHK'D DATE APP'D
			CUSTOMER 	
JOB NO: 24-207 QUANTITY 1			TITLE / PROJECT 24"OD X 90" S/S X 720 PSI AB SOUR VERTICAL TEST SEPARATOR PACKAGE	
DRAWING NAME P&ID			DATE (MO/Y) 10/09/2024	
DRAWING SERIAL NO (S) 24-207			DRAWN BY D. BRYAN	
REV NO 0 PAGE NO 1 OF 2			SCALE N.T.S. DRAWING NO 24-207-P&ID	

TAG NO.		DESCRIPTION
BH-1010		SUPPLIED BY OTHERS
V-1000		24"OD X 90" S/S X 1475 PSI @ +100°-20°F AB SOUR VERTICAL SEPARATOR, 1/8" CA (RARE SUPPLIED) CRN:K7385.2, A0429538
BPCV 1000		SURFLO CONTROL VALVE, 2" CLASS 300 RF, CS BODY, SF55 SLEEVE, 316SS 3/16" PERF, CONE, NACE, SF10V-C-55-S63-2.3 C/W CENTERING
		KIT, 2" CL300, SF10V-2.3CK & 3" NPS X 12" X 1000 PSI EXPANSION, 4.25" LG BOTTLE, 1/4" LOADING VALVE, 1000-12-80-EXPBOTTLES(AHEAT TREATED)
		CVS 2" CLASS 300 RF FP, FLOATER, WCB BODY, NACE,
ESDV 1000		STD. TEMP. C/W CVS PNEUMATIC SPRING RETURN ACTUATOR, 80 PSI SUPPLY, FC
		CVS 2" CLASS 300 RF FP, FLOATER, WCB BODY, NACE,
ESDV 1001		STD. TEMP. C/W CVS PNEUMATIC SPRING RETURN ACTUATOR, 80 PSI SUPPLY, FO
		CANALTA CONTOUR INNER GASKET STYLE 316 FLOW CONDITIONER, 316SS, 260IGFC80CK5-316SS, 1/8" THK.
FC 1001		DANIEL SENIOR METER RUN, 3" CLASS 600, FOE, SCH. 80, PIN FLOW
FE 1000		CONDITIONER, (2) - 1" FNPT, (1) - 3/4" FNPT, & (2) 1/2" FNPT **PROVIDED BY RARE**
		NUFLO WAFER GAS TURBINE FLOW METER, 2", 316LSS, 2.5" LG
FE 1001		10:1 TO 15:1 FLOW RANGE, NACE, C/W 2" CLASS 300 FLOW CONDITIONER
		NUFLO TURBINE FLOW METER, 2" EZ-IN X 1", 316LSS, 170 - 1700 BPD,
		NACE, 9A-100005115 C/W MAGNETIC PICKUP, 7/8" - 8", 9A-100002077 & HARDWARE KIT, 2" CLASS 3/600, NACE, 2296600 & MC-III TOTALIZER,
FE / FQIT 1002		4-20mA, LCD DISPLAY, CSA, XP, CL.1 DIV.1, 9A-50179024, 2.5" LG
		FISHER L2 LEVEL CONTROLLER, 2" MNPT, 3705 PSI, LCC, NACE,
		PNEUMATIC SNAP, BACK MOUNT, DA, 0-30 PSI, 1-7/8"OD X 12" PVC DISPLACER
LC 1000		FISHER D3 CONTROL VALVE, 2" CLASS 600 RF, LCC STEEL BODY,
LCV 1000		1" SS TRIM, 17-4PH SST PLUG AND SEAT, INTEGRAL ACTUATOR, FAIL CLOSED, 0-35 PSI OPERATING SIGNAL, NACE
		PROVIDED BY RARE
LG 1001		SOR 1540C-G2A-C-J0-PS-CV-NC-MC, 2" NPT, 316SS BODY, 316SS FLOAT,
LSH 1000		NACE
		SOR 1510C-G2A-C-L1-ES-CS-CV-MC, 2" NPT, 316SS BODY, 316SS FLOAT,
LSHH 1000		NACE
		SOR 1510C-G2A-C-L1-ES-CS-CV-MC, 2" NPT, 316SS BODY, 316SS FLOAT,
LSLL 1000		NACE
MVS / TE 1000		SUPPLIED BY OTHERS
MVS / TE 1001		SUPPLIED BY OTHERS
PG 1000		WGI PRESSURE GAUGE, 4" FACE, 800 PSI, DUAL SCALE, 316LSS, 316LSS INTERNALS, 1/2" MNPT, BOTTOM MOUNT, SILICONE FILLED
		WGI PRESSURE GAUGE, 2-1/2" FACE, 200 PSI, DUAL SCALE, 316LSS, 316LSS INTERNALS, 1/4" MNPT, BOTTOM MOUNT, SILICONE FILLED
PG 1100		WGI PRESSURE GAUGE, 2-1/2" FACE, 200 PSI, DUAL SCALE, 316LSS, 316LSS INTERNALS, 1/4" MNPT, BOTTOM MOUNT, SILICONE FILLED
PG 1200		WGI PRESSURE GAUGE, 2-1/2" FACE, 800 PSI, DUAL SCALE, 316LSS, 316LSS INTERNALS, 1/4" MNPT, BOTTOM MOUNT, SILICONE FILLED
		WGI PRESSURE GAUGE, 2-1/2" FACE, 200 PSI, DUAL SCALE, 316LSS, 316LSS INTERNALS, 1/4" MNPT, CBM, SILICONE FILLED
PG 1210		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-120 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
PRV 1050		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
PRV 1051		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
PRV 1052		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
PRV 1053		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET
		FISHER 67CFR PRESSURE REDUCING REGULATOR, 1/4" FNPT, ALUMINUM BODY & SPRING CASE, 1/4" FNPT SPRING CASE VENT, 0-35 PSI RANGE, -40°F / +180°F, 250 PSI MAXIMUM INLET

BILL OF MATERIALS	
PSV 1000	MERCER 9100 SAFETY RELIEF VALVE, 1" FNPT X 1-1/2" FNPT
	"F" ORIFICE, WCC BODY, 316SS TRIM, TEFLON SEAT,
	SET AT 720 PSIG, 91-22F1T25U1
	PROVIDED BY RARE
PSHH 1000	CVS 7970 HIGH PRESSURE PILOT, SET AT ??? PSI RISING
PY 1001	CVS 4057 3-WAY PILOT VALVE, MANUAL LATCH, CP
PY 1002	CVS 4057 3-WAY PILOT VALVE, CG
SP 1000	WELKER THREADED QUILL, 3/4" MNPT X 1/2" FNPT X 3-1/2" OAL X 1-3/4" U X 0.260" BORE, 45° TIP, 316SS, CRN,
	WELKER THREADED QUILL, 3/4" MNPT X 1/2" FNPT X 3-1/2" OAL X 1-3/4" U X 0.260" BORE, 45° TIP, 316SS, CRN,
SP 1001	WGI TEMPERATURE GAUGE, 3" FACE X 9" STEM, -40°F/160°F,
	DUAL SCALE, 304SS, 1/2" MNPT, CENTER BACK MOUNT C/W
	THERMOWELL, 3/4" MNPT X 1/2" FNPT X 9" X 0.260" STEM, 316LSS
TG / TW 1110	

VALVES & SPECIAL ITEMS		
TAG	QTY.	DESCRIPTION
BV-1	1	BALL VALVE, 3" CLASS 300 RF RP, A216 WCB BODY, ENP TRIM, LEVER OP, NACE
BV-2	22	BALL VALVE, 2" CLASS 300 RF RP, A216 WCB BODY, ENP TRIM, LEVER OP, NACE
BV-3	6	BALL VALVE, 1" CLASS 2000 NPT FP, A105N, 316SS TRIM, NACE
BV-4	2	BALL VALVE, 3/4" CLASS 2000 NPT FP, A105N, 316SS TRIM, NACE
BV-5	3	BALL VALVE, 1/2" CLASS 2000 NPT FP, A105N, 316SS TRIM, NACE
BV-6	5	BALL VALVE, 1/4" CLASS 2000 NPT FP, A105N, 316SS TRIM
CV-1	2	SWING CHECK VALVE, 3" CLASS 300 RF FP, A216-WCB, TRIM 10, NACE
CV-2	3	SWING CHECK VALVE, 2" CLASS 300 RF FP, A216-WCB, TRIM 10, NACE
CV-3	1	SWING CHECK VALVE, 1/2" CLASS 800 NPT, A105N, TRIM 12, NACE
NV-1	1	NEEDLE VALVE, 1/2" MNPT X 1/2" FNPT, CLASS 6000, 316SS, 316SS TRIM, HARD SEAT, NACE
NV-2	1	BLOCK AND BLEED NEEDLE VALVE, 1/2" MXF, 10000 PSI, HARD SEAT, WN8534, 316SS
NV-3	2	NEEDLE VALVE, 1/4" FNPT X 1/4" FNPT, CLASS 6000, 316SS, 316SS TRIM, HARD SEAT, NACE
SCV-1	1	REXROTH INLINE QUICK RELEASE VALVE, R431003039, ALUMINUM, 3/8", 200 PSI, -40°F/+160° F
ST-1	1	ALTA Y-STRAINER, 2" CLASS 300 RF, 316 BASKET, 1/8" PERF. NACE

GENERAL NOTES	
1. QUALITY CONTROL PROGRAM NUMBER IS AQP-1464	
2. THREADED PIPING PROGRAM IS RC-1 REV, 1	
3. PROCESS/SENSING TUBING (GAS) TO BE 1/2" X 0.049" W.T, 316SS	
4. PROCESS/SENSING TUBING (HYDRAULIC) TO BE 1/2" X 0.049" W.T, 316SS	
5. INSTRUMENT LINE TUBING TO BE 3/8" X 0.035" W.T, 316SS	
6. ALL TUBE FITTINGS TO BE SS (PROCESS/SENSING), SS (INSTRUMENT)	
7. ALL INSTRUMENTS TO BE INSTALLED, INCLUDING INSTRUMENT FLOAT, FOR FUNCTION TEST. AFTER FUNCTION TEST, INSTRUMENTS AND FLOATS THAT NEED TO BE SHIPPED LOOSE FOR SHIPPING CAN BE REMOVED AND PACKAGED UP	
8. ALL LOW POINT DRAIN PLUGS TO BE REMOVED AND ATTACHED TO ADJACENT PIPING PRIOR TO SHIPPING. WATER TO BE COMPLETELY REMOVED FROM PACKAGE AFTER PLUGS ARE REMOVED, PLUGS TO BE INSTALLED PRIOR TO PACKAGE START-UP,	
9. ALL INSTRUMENTS TO BE VENTED AS SHOWN	
10. INSTRUMENT SUPPLY LINES TO BE TESTED AS PER ABSA AB-522	
11. ALL LOW PRESSURE REGULATORS ON BUILDING HEATERS TO BE VENTED OUTSIDE	
12. HEATER INSTALLATION, TESTING AND COMMISSIONING TO BE IN ACCORDANCE WITH CSA B149.1 AND THE ALBERTA GAS CODE REGULATION (LATEST EDITION)	
13. NO GAS VENTING WITHIN 1.5m OF SCADA/RTU PANEL OR BUILDING VENTS	
14. "ATM" PIPING, FITTINGS & TUBING TO BE LEAK TESTED DURING FUNCTION TEST	
15. FINAL REVISION OF IFC DRAWING IS CONSIDERED AS-BUILT	
16.	
17.	
18.	
19.	
20.	

		CUSTOMER	
			
JOB NO		TITLE/PROJECT	
24-207		24"OD X 90" S/S X 720 PSI AB SOUR VERTICAL TEST SEPARATOR PACKAGE	
DRAWING NAME		QUANTITY	
P&ID		1	
PACKAGE SERIAL NO (S)		DRAWN BY	
24-207		D. BRYAN	
REV NO		DATE (MM/YY)	
0		10/09/2024	
PAGE NO		SCALE	
2 OF 2		N.T.S.	
DRAWING NO		24-207-P&ID	