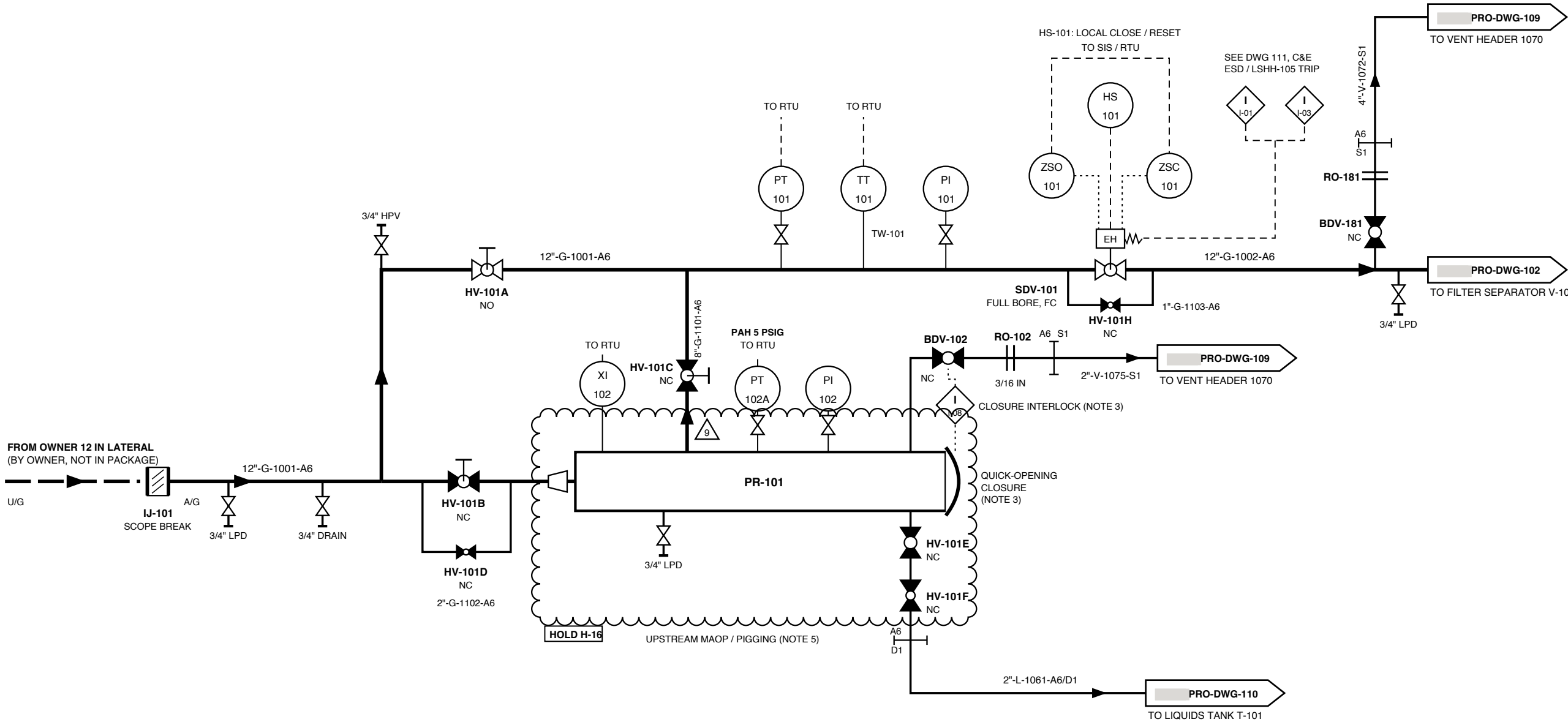


PR-101
INLET PIG RECEIVER
NPS 12 LINE x NPS 16 BARREL
QUICK-OPENING CLOSURE WITH PRESSURE WARNING
INTERLOCK
DESIGN: 1,440 PSIG @ -20 / 150 F
ASME VIII DIV. 1, CLASS 600 RF, CA 1/16 IN

IJ-101
STATION INLET INSULATING JOINT
MONOLITHIC, NPS 12, BUTT WELD
1,440 PSIG DESIGN
AT SOIL-TO-AIR RISER

SDV-101
STATION INLET SHUTDOWN VALVE
NPS 12 CLASS 600 RF FULL-BORE BALL, API 6D
ELECTRO-HYDRAULIC SPRING-RETURN
FAIL CLOSED (FC)

- NOTES**
1. LINE 1001 FROM IJ-101 TO SDV-101 AND THE PR-101 BARREL ARE CLASS 600 (A6), MAOP 1,440 PSIG.
 2. NORMAL (NOT RECEIVING): HV-101A OPEN, HV-101B / HV-101C / HV-101D CLOSED, BARREL AT 0 PSIG. RECEIVING: EQUALIZE WITH HV-101D, OPEN HV-101B AND HV-101C, THROTTLE HV-101A. PIGGING PROCEDURE BY OWNER (HOLD H-16).
 3. PR-101 QUICK-OPENING CLOSURE HAS A PRESSURE WARNING DEVICE PER ASME VIII UG-35.2. MECHANICAL INTERLOCK I-08: CLOSURE CANNOT BE OPENED UNTIL BDV-102 IS OPEN AND PI-102 READS 0 PSIG. PT-102A GIVES REMOTE INDICATION, PAH 5 PSIG (ADVISORY). INTERLOCK TYPE BY VENDOR (HOLD H-15).
 4. SDV-101 CLOSURES ON STATION ESD (I-01) AND V-101 HIGH-HIGH LEVEL LSHH-105 (I-03). LOCAL CLOSE AND RESET AT HS-101 AFTER THE SIS IS RESET. EQUALIZE ACROSS SDV-101 WITH HV-101H (NPS 1 CLASS 800 FORGED (API 602) SOCKET-WELD GLOBE, CV 5, NC) BEFORE REOPENING. SEE **INS-LST-004**.
 5. PR-101 AND LINE 1001 ASSUME THE UPSTREAM LATERAL MAOP DOES NOT EXCEED 1,440 PSIG. IF IT DOES, AN INLET OVERPRESSURE PROTECTION LAYER IS REQUIRED (HOLD H-16).
 6. BDV-181 IS OPENED MANUALLY AFTER AN ESD; NO AUTOMATIC BLOWDOWN (BASIS SECTION 9.3). RO-181 / RO-102 (3/16 IN) BORES PER **PRO-CAL-008**. PIPING DOWNSTREAM OF EACH RO IS SPEC S1 STAINLESS.
 7. VENT AND DRAIN VALVES 3/4 IN AND SMALLER ARE CLASS 6000 SOCKET WELD WITH PLUG, NORMALLY CLOSED. HPV / LPD ARE HYDROTEST HIGH-POINT VENTS AND LOW-POINT DRAINS.
 8. PI-101 / PI-102 / PT-101 / PT-102A ROOT VALVES ARE 1/2 IN NPT GAUGE VALVE MANIFOLDS (BLOCK AND BLEED).
 9. KICKER CONNECTION TO THE NPS 16 BARREL IS AN NPS 16 x 8 REDUCING TEE WITH GUIDE BARS.



INTERLOCKS ON THIS SHEET (DETAIL IN **INS-LST-004, LOGIC ON **PRO-DWG-111**):**

I-01 STATION ESD: CLOSE SDV-101. I-03 V-101 LSHH-105: CLOSE SDV-101.

I-08 PR-101 CLOSURE / BARREL VENT MECHANICAL INTERLOCK.

NOTES / REFERENCES

REF: **PRO-DWG-100** SH 1-2 (LEGEND)

REF: **INS-LST-004** (CAUSE AND EFFECT)

REF: **GEN-DB-001** SECTIONS 7, 8, 9

REF:

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP
A	2026-09-29	ISSUED FOR REVIEW (IFR)			

PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION

ENGINEER OF RECORD SEAL

NOT SEALED
PRELIMINARY

PE NO. _____

PROJECT

120 MMSCFD RECEIPT INTO _____

COUNTY, _____

DISCIPLINE: PROCESS

SCALE: NTS

P&ID STATION INLET

IJ-101, PIG RECEIVER PR-101, INLET SDV-101

DRAWN: ____ CHECKED: ____ APPROVED: ____

DWG NO.

PRO-DWG-101

SHEET 1 OF 1 REV A