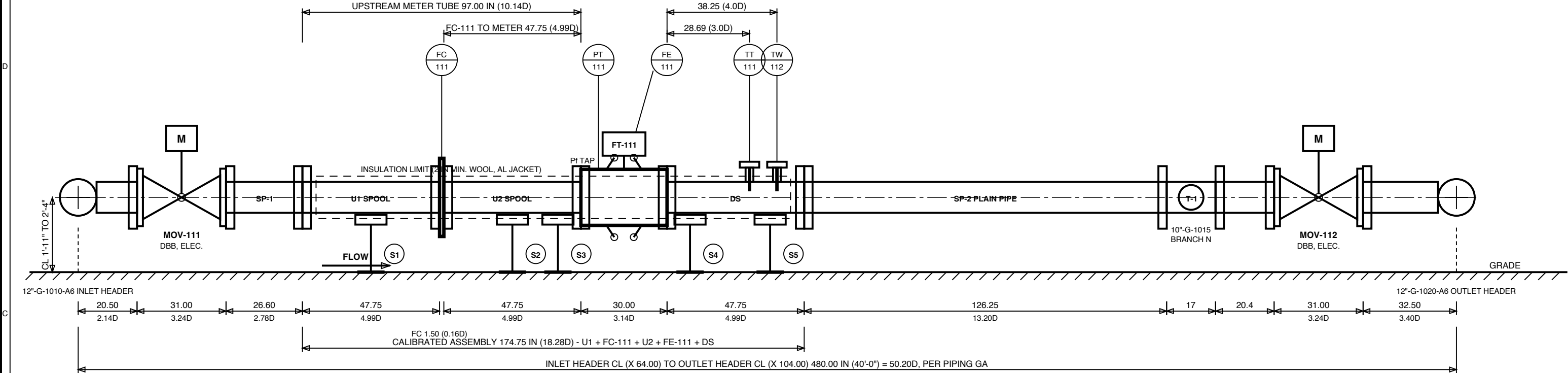
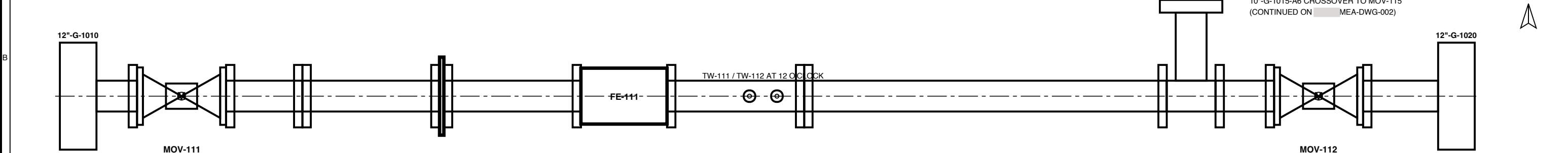


ELEVATION A - METER RUN MR-110 (RUN 1, LINE 10"-G-1011-A6), LOOKING NORTH

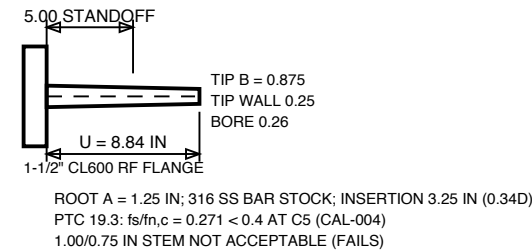
MR-120 (RUN 2, 10"-G-1012-A6) IS IDENTICAL EXCEPT THAT ITS CROSSOVER TEE IS IN SP-1 (CL AT X 69.80) AND T-1 IS PLAIN PIPE (NOTE 6). PLOT X PER PIPING GA (VOLUME 4).



PLAN B - METER RUN MR-110 (NORTH UP)



DETAIL C - THERMOWELL TW-111/112/121/122 (NTS)



BORE AND ALIGNMENT TOLERANCES (D = 9.562 IN)

REQUIREMENT	PROJECT	AGA 9 LIMIT
TUBE ID VS METER BORE	+/-0.5 % (9.514-9.610)	+/-1 % (9.466-9.658)
STEP AT ANY JOINT	0.029 IN (0.3 % D)	1 % D
OUT-OF-ROUND	1 % OF MEAN ID	1 %
FC BORE VS PIPE ID	WITHIN 1 %	WITHIN 1 %
FLANGE CONCENTRICITY	0.02 IN, 2 DOWELS	-
FACE PERPENDICULARITY	0.5 DEG MAX	-
SPOOL LENGTH	+/-0.06 IN	-

NOTES

- ALL DIMENSIONS IN INCHES UNLESS NOTED; D = METER BORE 9.562 IN (NPS 10 SCH 80). DRAWN NTS, PROPORTIONAL.
- DESIGN 1,440 PSIG / -20 TO 150 F; ASME B16.5 CLASS 600 RF WN FLANGES BORED TO D; API 5L X52 PSL2.
- U1 + FC-111 + U2 + FE-111 + DS FLOW CALIBRATED AS ONE ASSEMBLY (MEA-SPC-001); MATCH-MARK AND DOWEL EVERY JOINT; NO WELDING, GRINDING OR DRILLING AFTER CALIBRATION.
- INTERNAL WELDS GROUND FLUSH; NO PROTRUSION INTO BORE WITHIN U1, U2, DS.
- SUPPORTS S1-S5: CLAMP SADDLES, NOT WELDED TO CALIBRATED SPOOLS; S3/S4 WITHIN 12 IN OF METER FLANGES.
- MR-110: SP-1 PLAIN, T-1 = 10 IN TEE (CL X 96.30) BRANCH NORTH TO 10"-G-1015; POSITIONS PER PIPING GA.
- MR-120: SP-1 HAS 10 IN TEE (CL X 69.80) BRANCH SOUTH FROM 10"-G-1015, T-1 PLAIN. CAL. ASSY X 70.51-85.07.
- HYDROTEST 2,160 PSIG 8 H BEFORE CALIBRATION; 100 % RT/AUT BUTT WELDS, 100 % MT FILLETS.
- MOV FACE-TO-FACE AND METER LENGTH TYPICAL, CONFIRM WITH VENDOR DATA (HOLD H-15).
- INSULATE U1 TO DS (2 IN), REMOVABLE COVERS AT FLANGES; SKID CANOPY PER DWG-002.
- PT-111 ON METER BODY Pf TAP; TT-111 IN TW-111 (3.0D); TW-112 TEST WELL (4.0D).

NOTES / REFERENCES

- DIMENSIONS IN INCHES AND PIPE DIAMETERS D (D = 9.562 IN).
 - GEOMETRY PER MEA-CAL-001 SECTION 7.7.
 - THERMOWELLS PER MEA-CAL-004 AND DS-010.
- REF: MEA-SPC-001
- REF: MEA-DS-001/002/010
- REF: MEA-DWG-002

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: MEASUREMENT

SCALE: NTS

METER RUN FABRICATION DRAWING

MR-110 / MR-120, NPS 10 CLASS 600 USM RUN

DRAWN: _____ CHECKED: _____ APPROVED: _____

DWG NO.
MEA-DWG-001

SHEET 1 OF 1 REV A