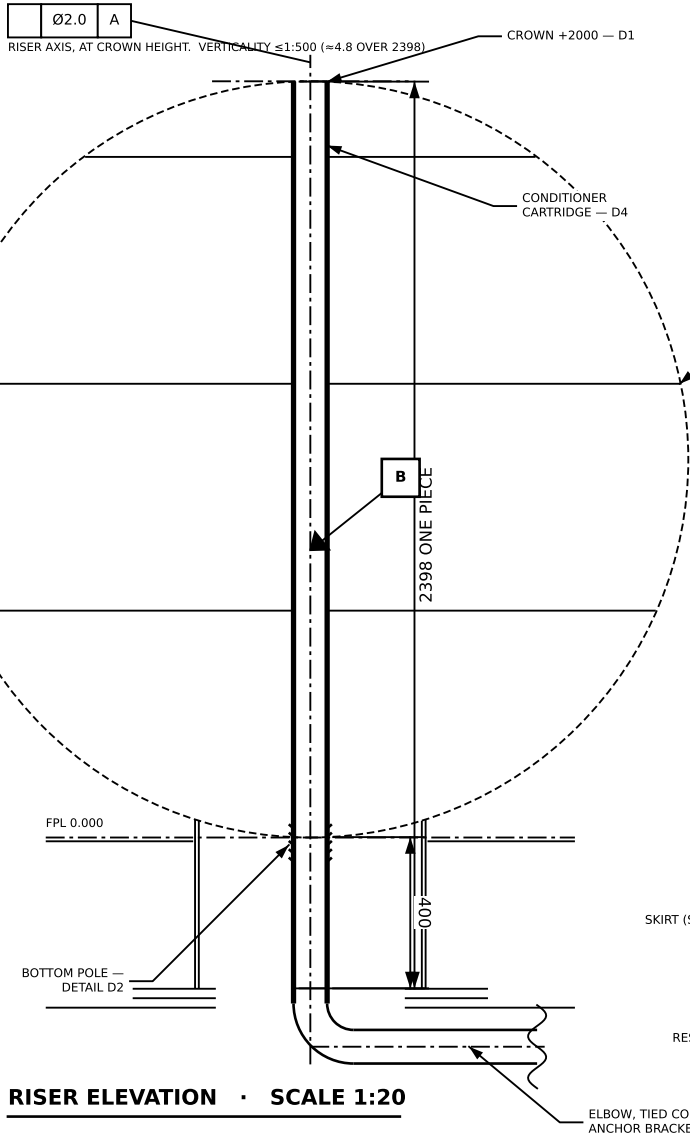


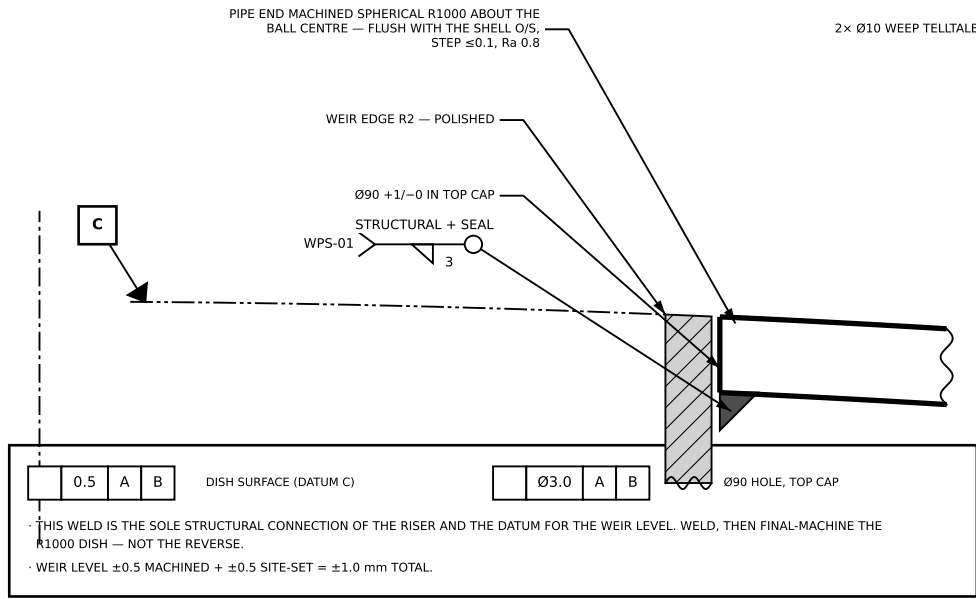


RISER ELEVATION · SCALE 1:20

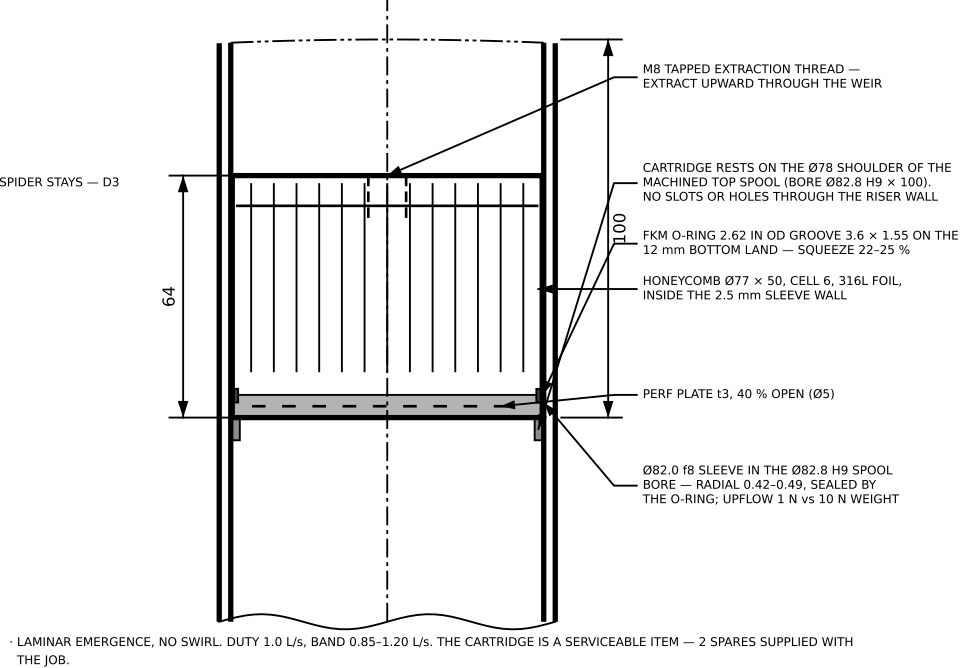
RISER FIXITY — REV D

- RISER IS ANCHORED AT THE CROWN ONLY. DO NOT WELD AT THE BOTTOM POLE.
- THE BOTTOM POLE IS A SEALED SINGLE-PLY 316L BELLOWS (D2) — NOT A SLIDING GLAND AND NOT A SEAL WELD.

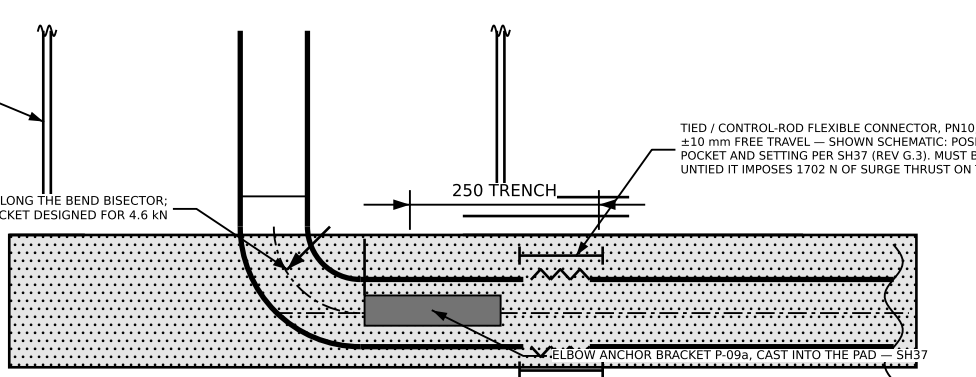
D1 — CROWN PORT (FLUSH) · SCALE 2:1



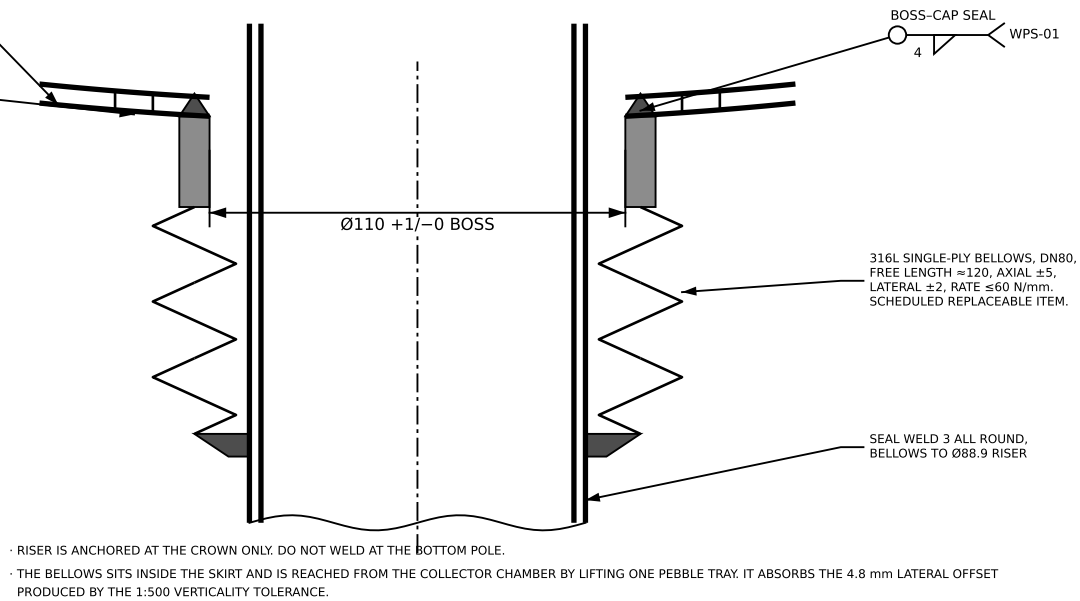
D4 — REMOVABLE CONDITIONER CARTRIDGE · SCALE 1:2



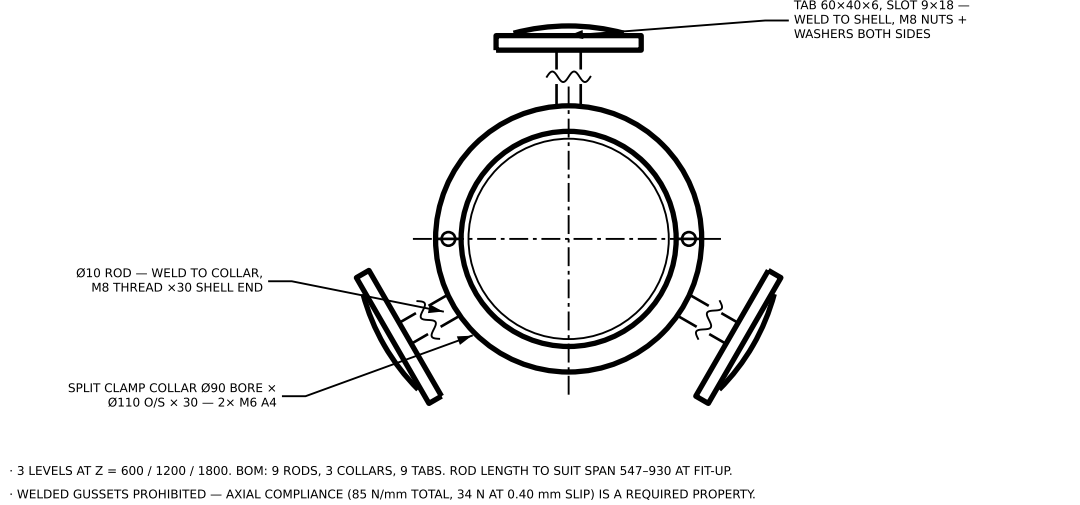
D5 — CHAMBER, ELBOW AND TIED CONNECTOR · SCALE 1:10



D2 — BOTTOM POLE: SEALED BELLOWS · SCALE 1:2



D3 — SPIDER STAY (PLAN OF ONE LEVEL) · SCALE 1:3



RISER NOTES

- Pipe DN80 sch10S — OD 88.9, wall 3.05, ID 82.8, ASTM A312 TP316L seamless. ONE PIECE, crown to chamber. Cut 2410, machine the crown end to the R1000 dish, finished length 2398.
- CROWN PORT (D1): dish flush with the shell O/S, step ≤0.1, edge R2 polished, profile 0.5 [A]B. Weir level ±1.0 TOTAL.
- BOTTOM POLE (D2): sealed 316L single-ply bellows over a Ø110 +1/-0 boss. NO WELD AT THE BOTTOM POLE. Axial ±5 against a 0.58 mm demand.
- Interior sealed and dry: desiccant breather on the SKIRT WALL above the standing-water line. CRC-V low-point drain plug, 2× Ø10 weep telltales discharging visibly into the chamber, conductivity leak switch to the PLC, borescope port through one tray position.
- Conditioner (D4) is a REMOVABLE Ø82.0 f8 sleeve cartridge resting on the Ø78 shoulder of a MACHINED TOP SPOOL (bore Ø82.8 H9 — not achievable in as-rolled pipe), O-ring sealed on its bottom land; no wall slots, no grub screws; M8 extraction thread, extracted UPWARD through the weir.
- Duty 1.0 L/s (3.6 m³/h); band 0.85-1.20; film 0.344 mm at 0.463 m/s; We = 1.03 against the derived criterion We ≤ 2.0.
- Surge 240 kPa (Joukowsky). Elbow resultant 1828 N along the bend bisector — bracket designed for 4.6 kN.

REV	DATE	DESCRIPTION	BY
D	2026-08-05	CONCEALED SKIRT ANCHORAGE, RESERVOIR + PLANT, PEBBLE COLLECTOR	NX
E	2026-08-20	REV D.2 ALIGNMENT + VISUAL QA CORRECTIONS	NX
F	2026-09-03	LOGO ENGRAVING ADDED (SH15); SHEET COUNT 14 -> 15	NX
G	2026-09-05	AUDIT CLOSE-OUT: CART Ø82 f8, SLOT 24, 24 TRAYS, DN80	NX
G.2	2026-09-06	PART DRAWINGS SH30-38; SLOTS AZ22.5; DOUBLER R995	NX
G.3	2026-09-06	SH37 BRACKET, SH42 WELD MAP, P-16 BELLOWS; IFF	NX

SPA FOUNTAIN — B7 SPA, MALDIVES

SPA-F-SH03 — RISER ASSEMBLY & PENETRATIONS

DRAWN: NaXief Eng.	CHECKED: NX 2026-09-06	APPROVED: I. NAZEEF 2026-09-06	STATUS: IFF REV G.3
DATE: 2026-09-06	REV: G.3	UNITS: mm	SCALE: AS NOTED
A3 · SHEET 3/25			

ISSUED FOR FABRICATION — REV G.3 · HOLD POINTS PER SH42

WORK TO FIGURED DIMENSIONS · ISO 2768-mK U.O.S.

