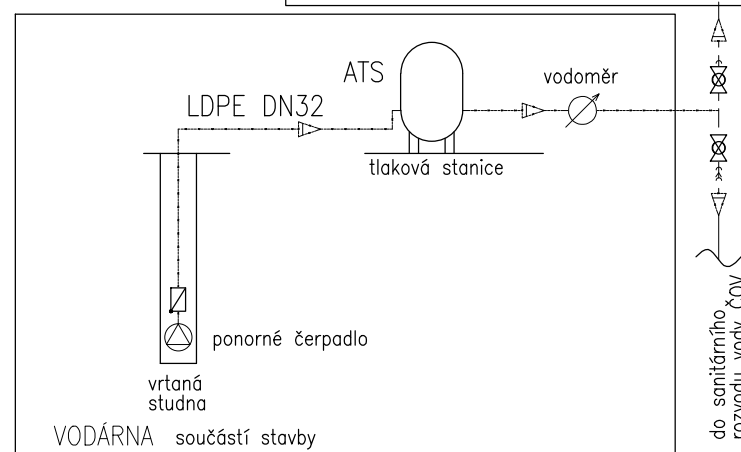
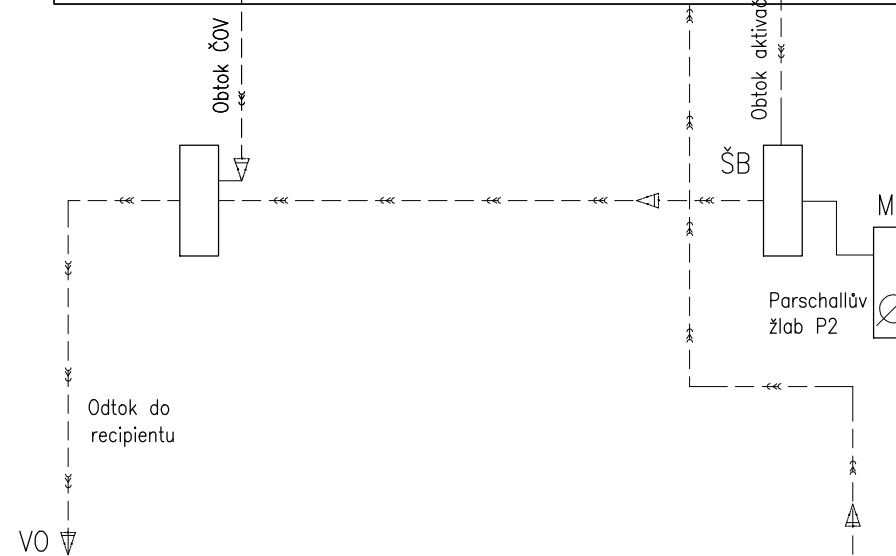


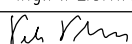
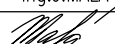
The diagram illustrates the hydraulic layout of a wastewater treatment plant (ČS). It begins with a pump station (výtlač z ČS) with a flow rate $Q_{\text{čerp.}} = 7 \text{ l/s}$. The main line is HDPE DN80. The flow passes through valves A10 and A11, then through a pump station (RČ) and a treatment unit (K01). The flow continues through valves A18, A1, and A2, then through a pump station (K02) and a treatment unit (K01). The flow then passes through valve A17 and a pump station (P3) to a final outlet (KZ). The flow rate at the final outlet is 7 l/s. The diagram also shows a return line (RČ) and a final outlet (KZ) with a flow rate of 7 l/s.

The diagram illustrates the layout of a wastewater treatment plant, labeled "KALOVÉ HOSPODÁŘSTVÍ". It shows the flow of wastewater through various treatment stages and the handling of sludge.

Key Components and Flow:

- Inputs:** "Sírán železitý $\text{Fe}_2(\text{SO}_4)_3$ " (Iron sulfate) is added at the beginning. "kalová voda PE DN65" (PE sludge water) enters from the top right.
- Denitrification (Denitrifikace):** The first stage of biological treatment.
- Nitrification (Nitrifikace):** The second stage of biological treatment.
- Dosazovací nádrž (J1):** A dosing tank for chemical addition.
- PSN (Plov. nečistoty):** A floating sludge tank with a motor (M) and a pump (P1).
- Sludge Handling:**
 - "Vratný kal 4 l/s" (Return sludge) is pumped back to the denitrification stage.
 - "Přebytný kal" (Excess sludge) is pumped to a "nádrž flokulantu H2" (floculant tank).
 - "Kalojem" (Sludge thickener) is shown with a pump (P2) and a truck for "Kal z kalojenu" (Sludge from thickener).
- Sludge Dewatering:** "Sítový lis OK" (Screen press) and "Sítový lis OK" (Screen press) are used to dewater sludge, producing "Pevný kal KO 3" (Solid sludge KO 3) and "Kalová voda z lisu" (Sludge water from press).
- Water Management:** "Ostříková voda pro kalolis" (Sludge water for sludge press) and "Ostříková voda pro kalolis" (Sludge water for sludge press) are shown. "jímka vody" (Water pit) is also indicated.
- Other Equipment:** "Dmychárna" (Blower) with two units (D1, D2) providing air flow (Q=60-105 m³/h). "Dávkovací stanice" (Dosing station) for "Q=0,6 l/h". "nátok DN200" (Inlet DN200).
- Pumps and Valves:** Numerous pumps (P1, P2, P5, P6, P7) and valves (A1, A2, A3, A4, A5, A6a, A6b, A6c, A6d, A7a, A7b, A8a, A8b, A9, A12, A14, A16) are shown throughout the system.
- Dimensions and Levels:** Various dimensions and levels are specified, such as "hl. -0,780" (level -0,780), "DN80 tř. 17" (DN80, class 17), and "DN65, PE" (DN65, PE).



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