Remarks:
1. Reference design consists of 6 different drawings. “Legend”, list of “valves and accessories” and “Remarks” apply to the entire set of drawings.
2. Building type, materials and final dimensions of the entire building or parts of it, depend on the specific application and its static requirements.
3. Structural analyses to be carried out in each specific case.
4. Drainage layer with a slope of 2:1. Backfill and layer of top soil must be compacted in layers of 30-50 cm depending on local soil conditions.
5. Drain pipe must be directed into a stream or discharge channel. The pipe end must be protected from small animals with grating.
6. Pipe installations inside the building can be carried out in stainless steel or polyethylene.
7. All pipe penetrations in floors and walls must be watertight.
8. If a different pumping system than a pressure boosting system with integrated membrane vessel shall be used, a surge vessel has to be dimensioned according to the specific hydraulic conditions.
9. Roof construction is indicative only and has to be designed to the specific requirements.
10. Gate valves that are closed during normal operation must be opened in reasonable intervals to avoid stagnating water.
11. Depending on local climate conditions a thermal insulation by XPS-panels (underground) and EPS-panels (overground) is recommended.
12. Instead of reinforced concrete, brickwork can be used for ground floor walls.