

Task

Greywater and Rainfall recycling

Waste water treatment by using plant-based techniques



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European Union
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Location

FLOWER-OF-SEVEN-COLOURS KINDERGARTEN

Hungary, Budapest, Egressy road 180-184.

Mechanical designer:



Joseph Pal

Before



Lawn to be watered: $\sim 1.000 \text{ m}^2$

meanwhile



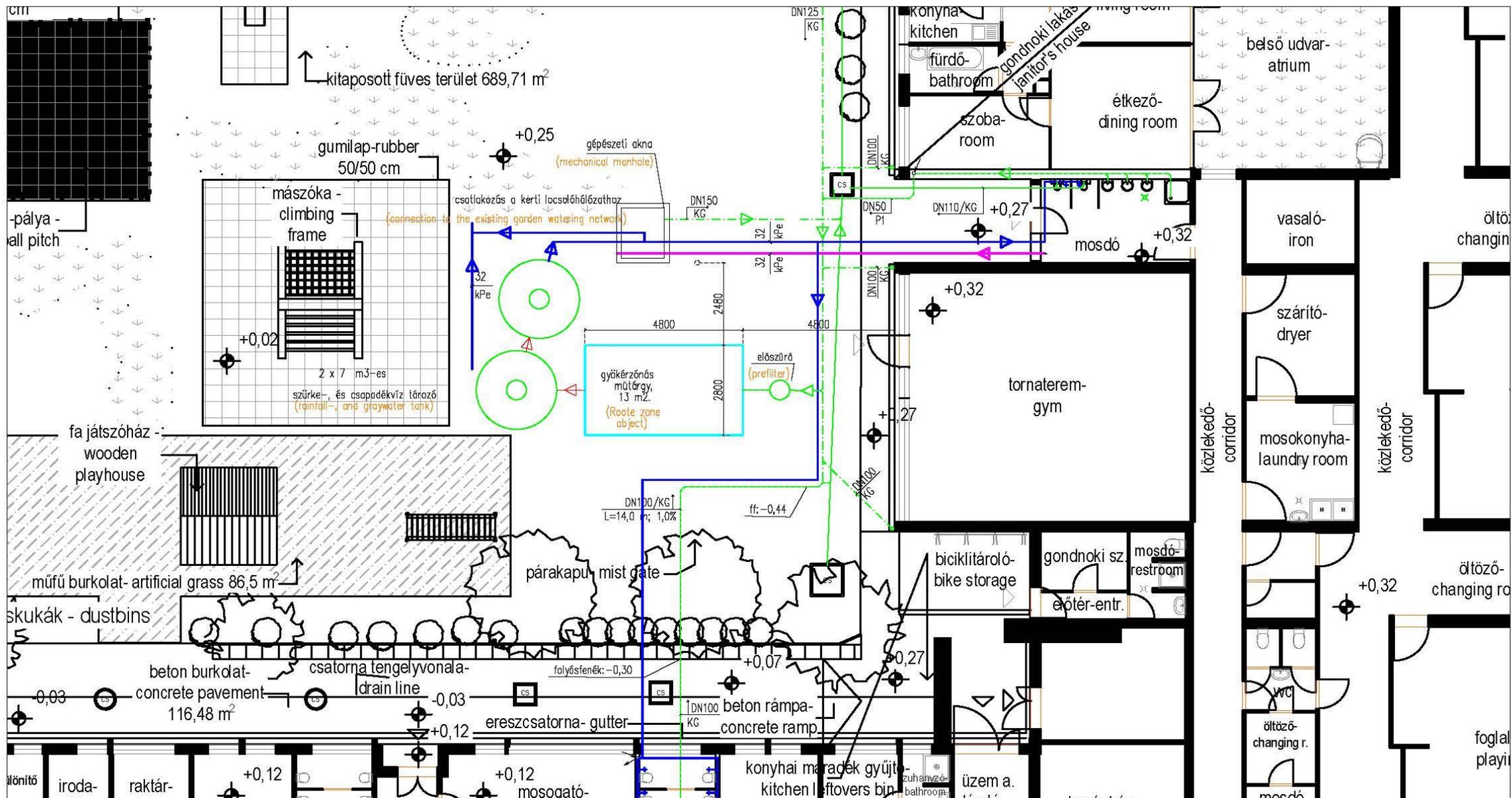
After





Waters to be collected:

- 1.) Gray waste water from an indoor sanitary blokk, which contains:
 - nine washbasins and two showers.
 - 2.) Rainfall from the roof. Roof area: 200,0 m².
- 



A sanitary blokk



Waste water treatment

We use a root zone cleaning system for cleaning of the gray and rain waste waters. The system is the product of the Hidro-consulting Ltd, Pécs, Hungary. See: www.hidroconsulting.hu; or www.gyokerzonas.hu or <https://hidroconsulting.hu/hir/termeszetrozeli-szennyviztisztitas>; with references.

Fields of use

We use the gray water

- 1) for WC flushing indoor,
- 2) for watering in the garden.

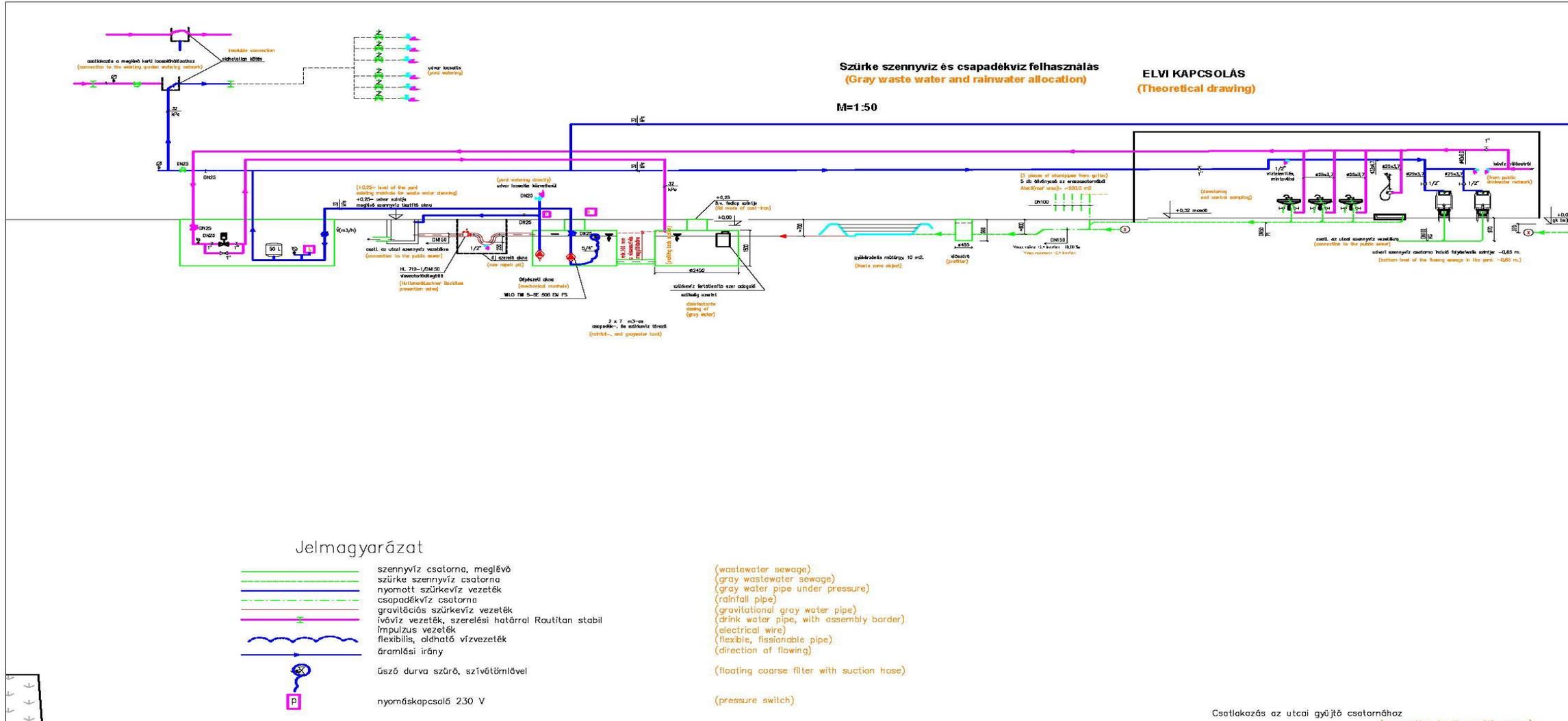
The unnecessary amounts of water flows into the public sewage.

Technological chain

gray waste water + rain water → root zone → gray water <

→ WC flushing

→ garden watering



Sense of the project: the future





Many thanks for Your attention !

This is the end of this lecture

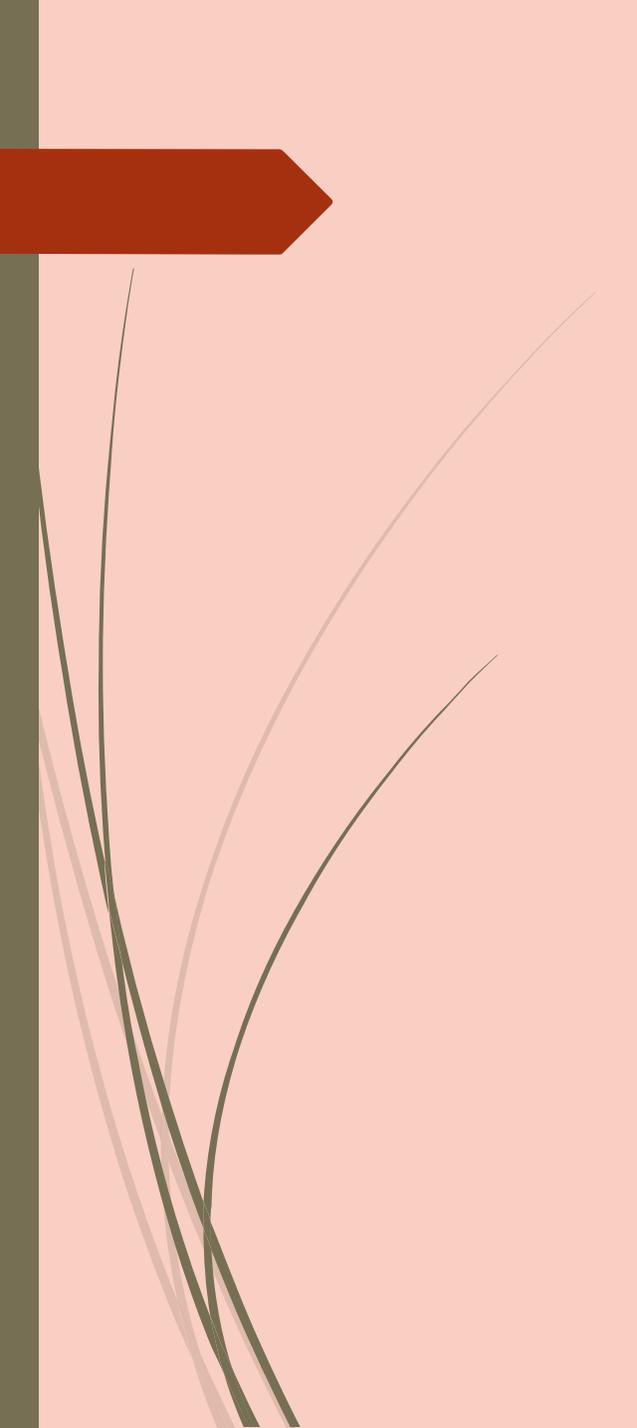
but not the projects

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To be continued...