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Site visit

Godsbanen, River Aarhus and the sluice/DOKK1

Gitte Normand Andersen, Aarhus Municipality
Head of Wastewater and Groundwater Section.

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The walk

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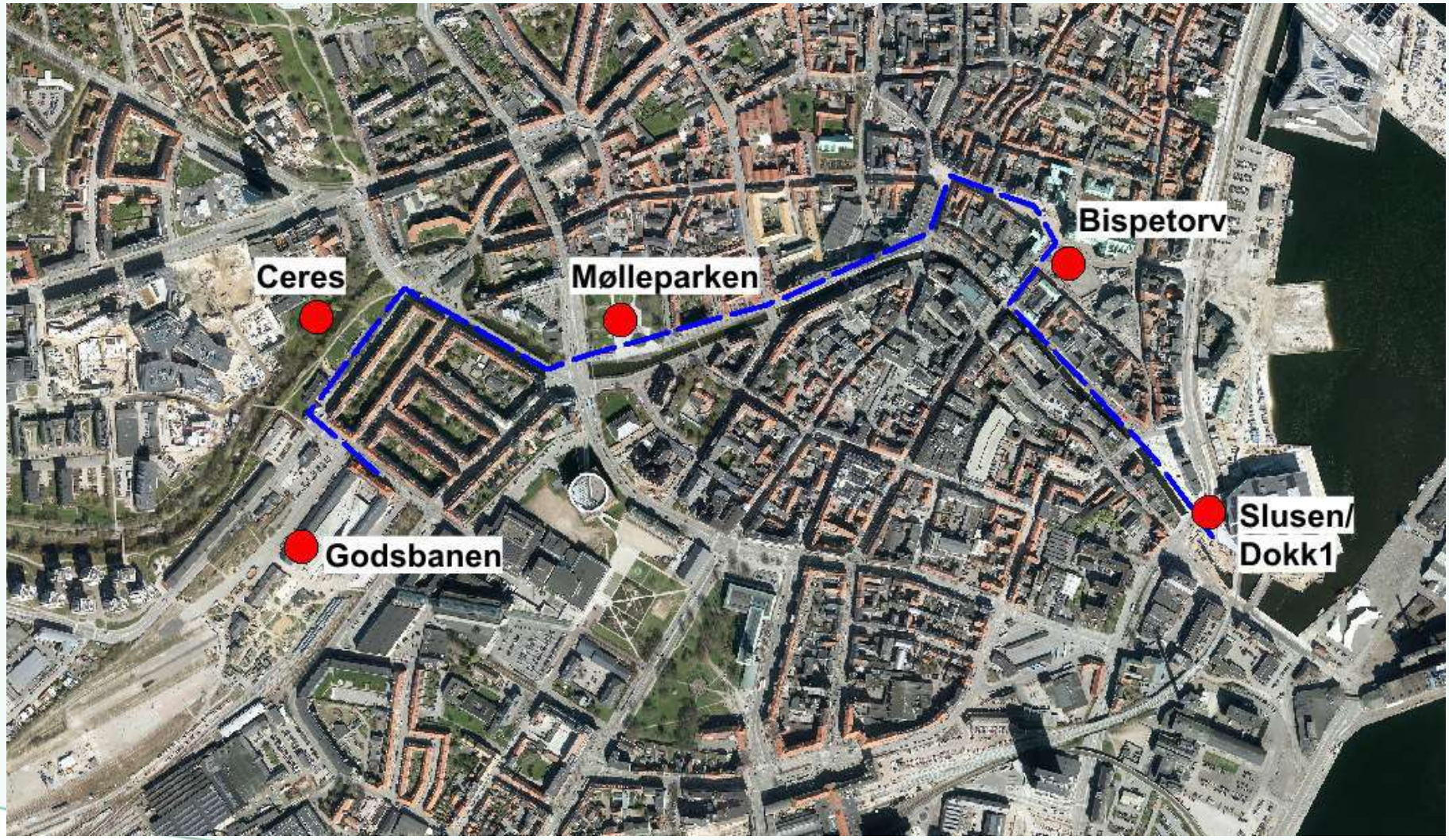

Aarhus K

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The vision
Aarhus K will be a new vibrant youthful part of the city.

The district will contribute to culture, education, housing and companies and will be a link between both city and landscape, culture and nature.


Institut for X
Culture production center
5 / 37

Green wedge

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A wedge-shaped green area is established to draw the landscape of the valley into the city, where it will be a created as a recreational city park for the benefit of the whole city

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Water management

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Sustainable and innovative water management

- Open stormwater systems that brings recreational values to the area
- Good water quality in River Aarhus / Aarhus Bay
- Permeable surfaces – creates time and room for the water
- Recycling of rainwater
- Adaptation to extreme rain
- Retention of water will be a part of multifunctional urban spaces (play areas, parking places, soccer fields etc.)

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Ceres

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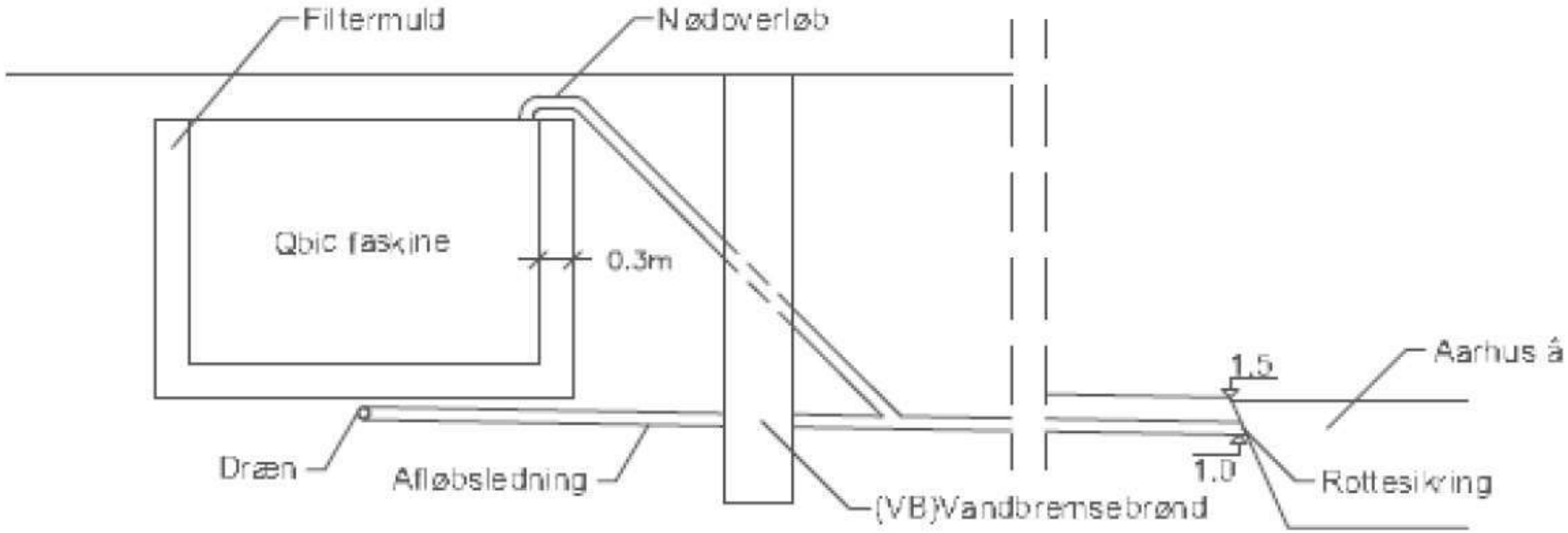
Principle drawing for drainage



Principskitse faskine

Drainage / fascine

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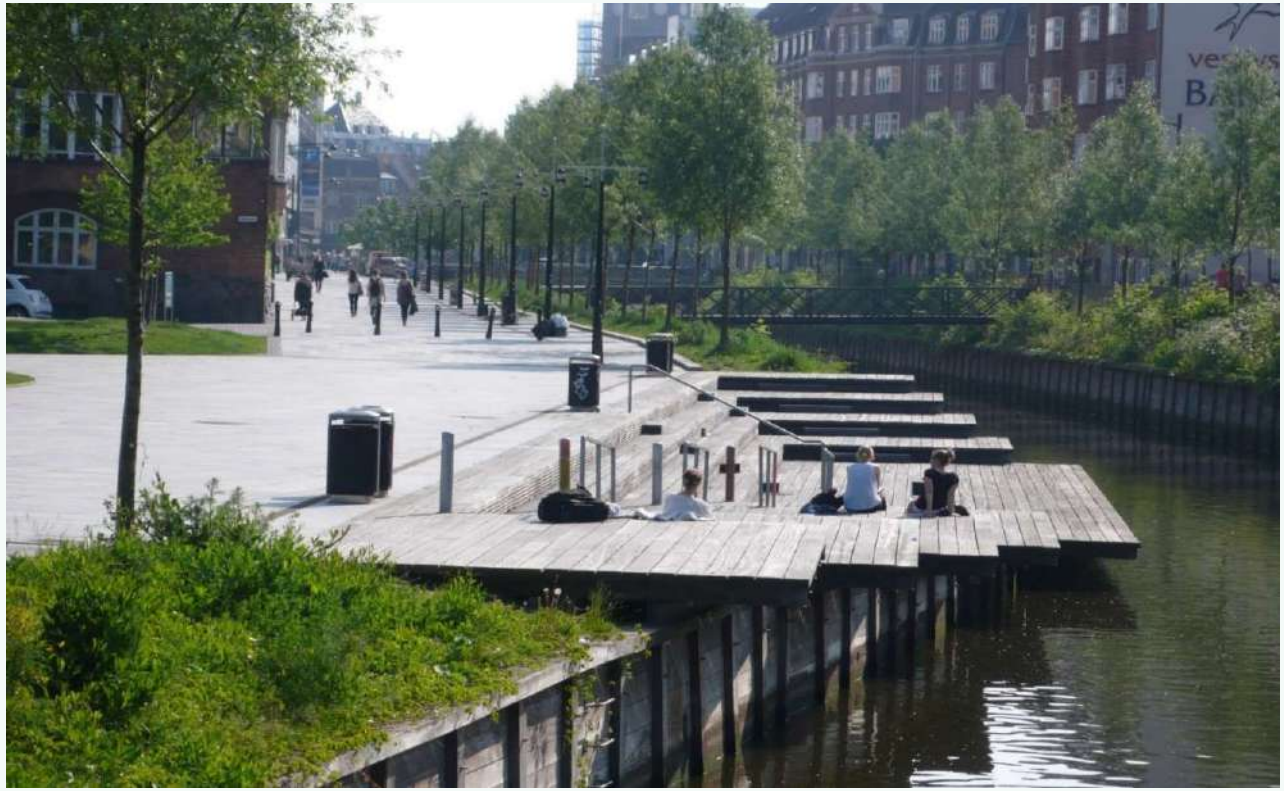
River Aarhus project



Improves the hygienic water quality in Brabrand Sø, Aarhus Å and Aarhus Harbor to support the quality of nature, the opening of the river and the changed use of Aarhus Ø

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Rekreation/liveability

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2005

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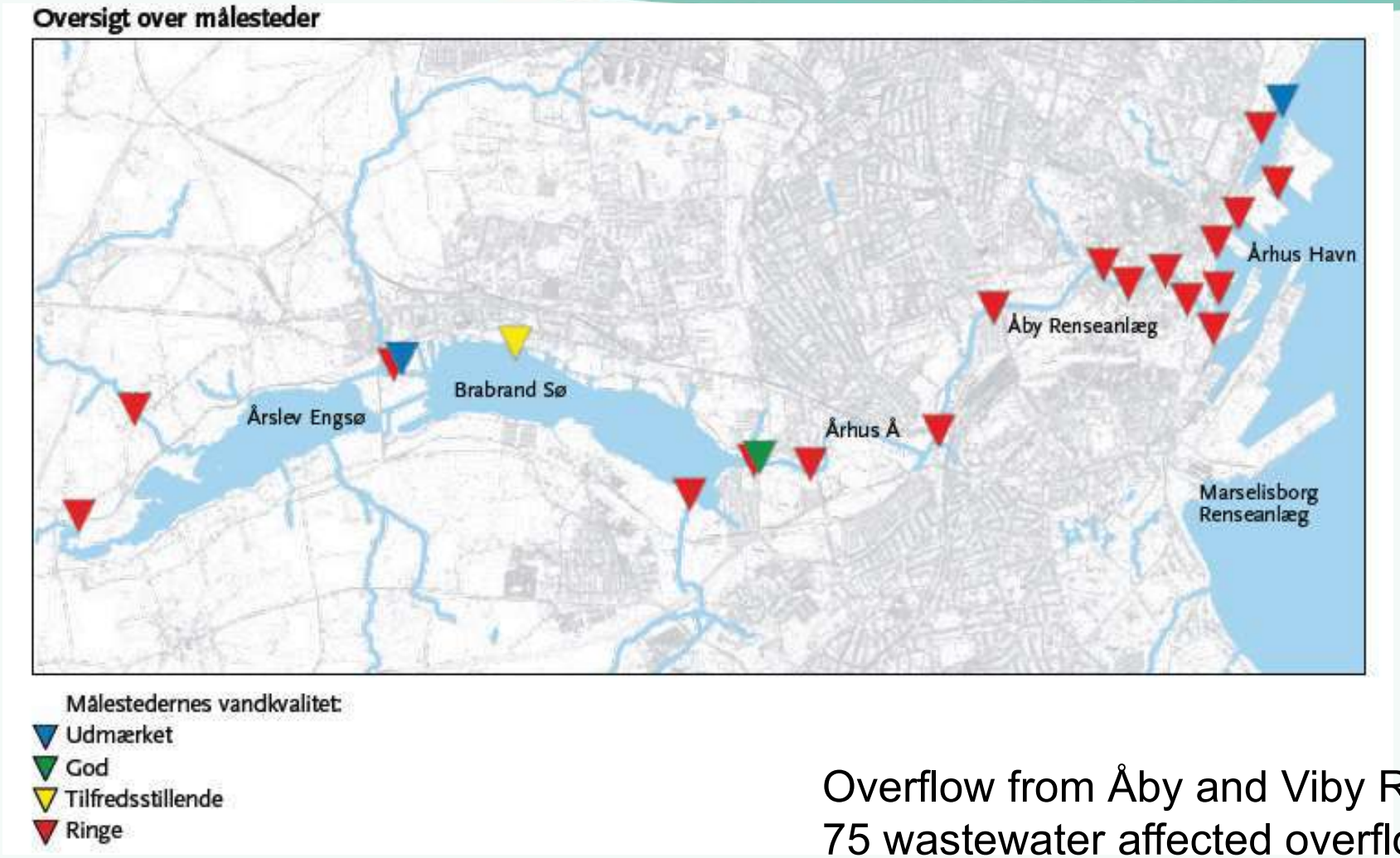

Overflow from Åby and Viby RA
75 wastewater affected overflows
58 rainwater outflows

Focus areas

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- 48.400 m³ bassin
- Separating combined sewer systems in Stavtrup/Brabrand
- Establishment of additional capacity on Viby and Åby STP (basins and clearance tanks)
- Desinfection on Viby and Åby STP
- Active / intelligent controlling of rainwater to Åby and Viby STP
- Warning system for overflow of sewage

Bassins

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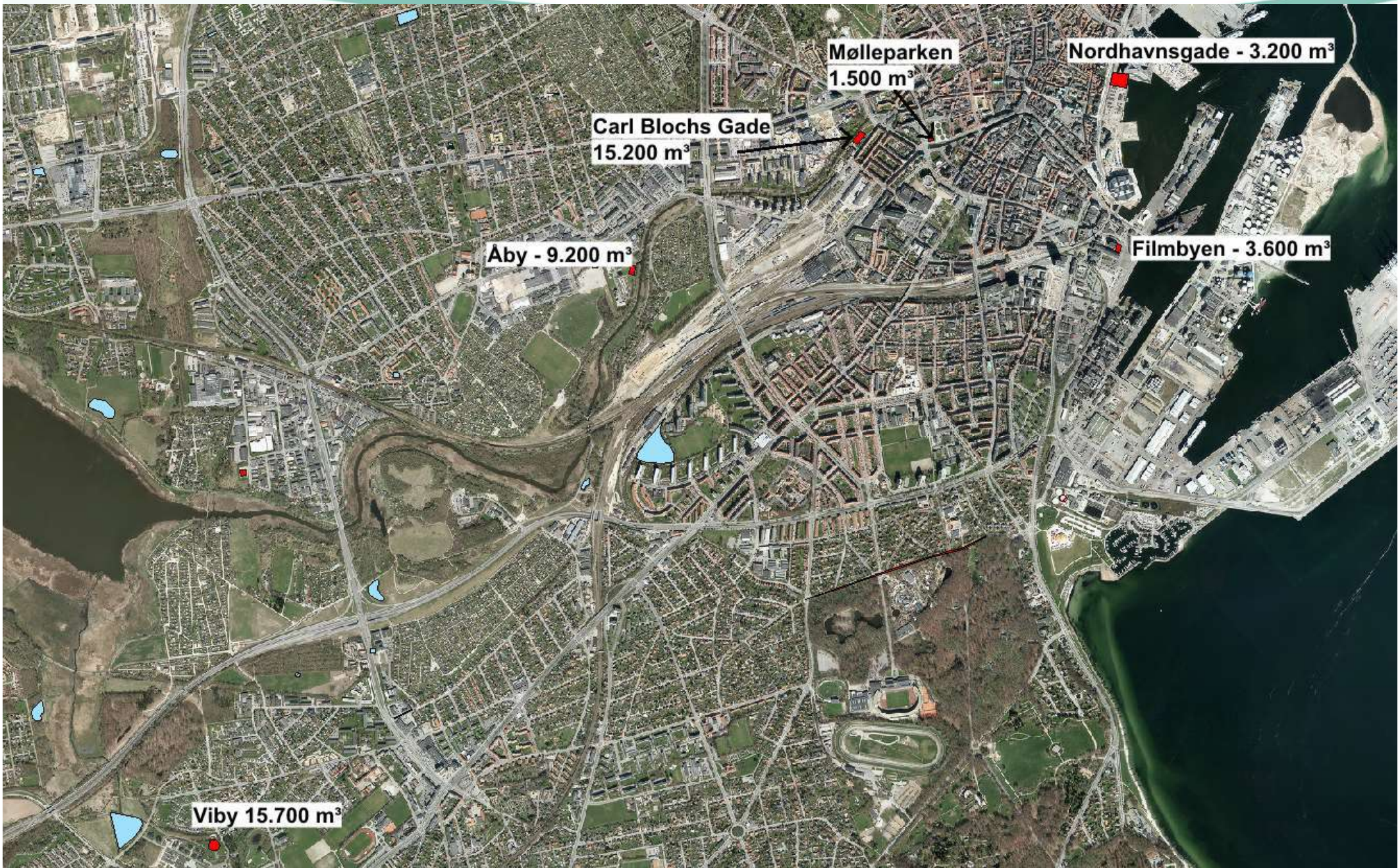

Carl Blochs Gade

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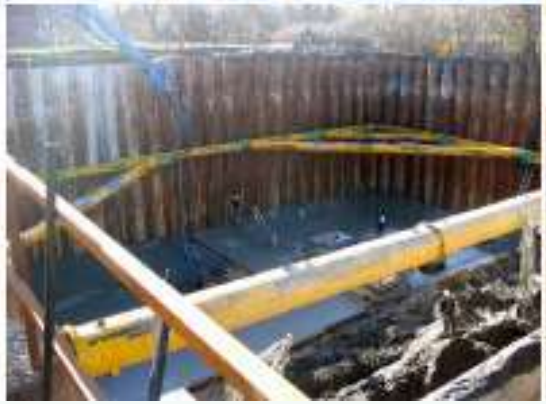

63 x 30 x 9 meter

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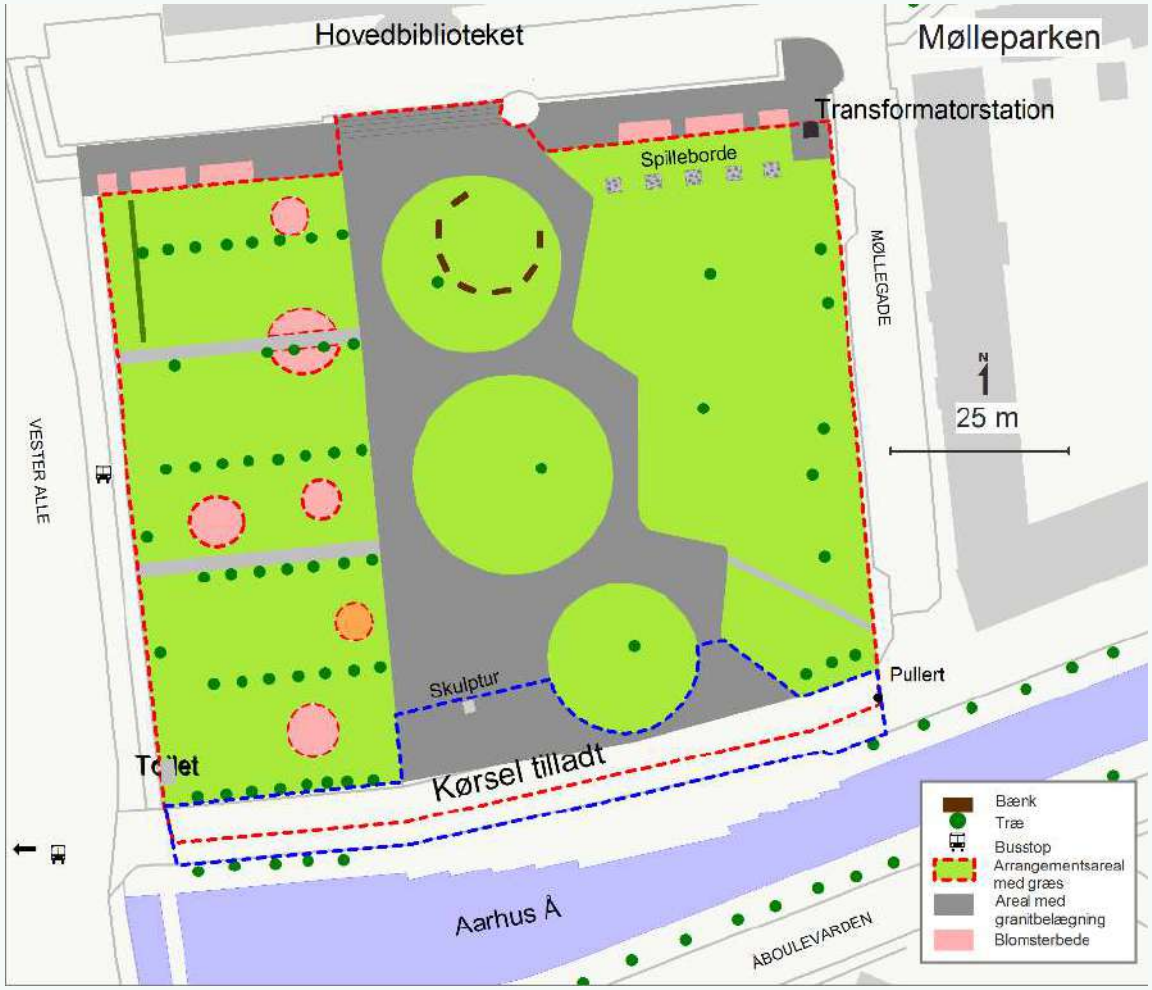
Mølleparken – a raingarden



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Mølleparken – a raingarden

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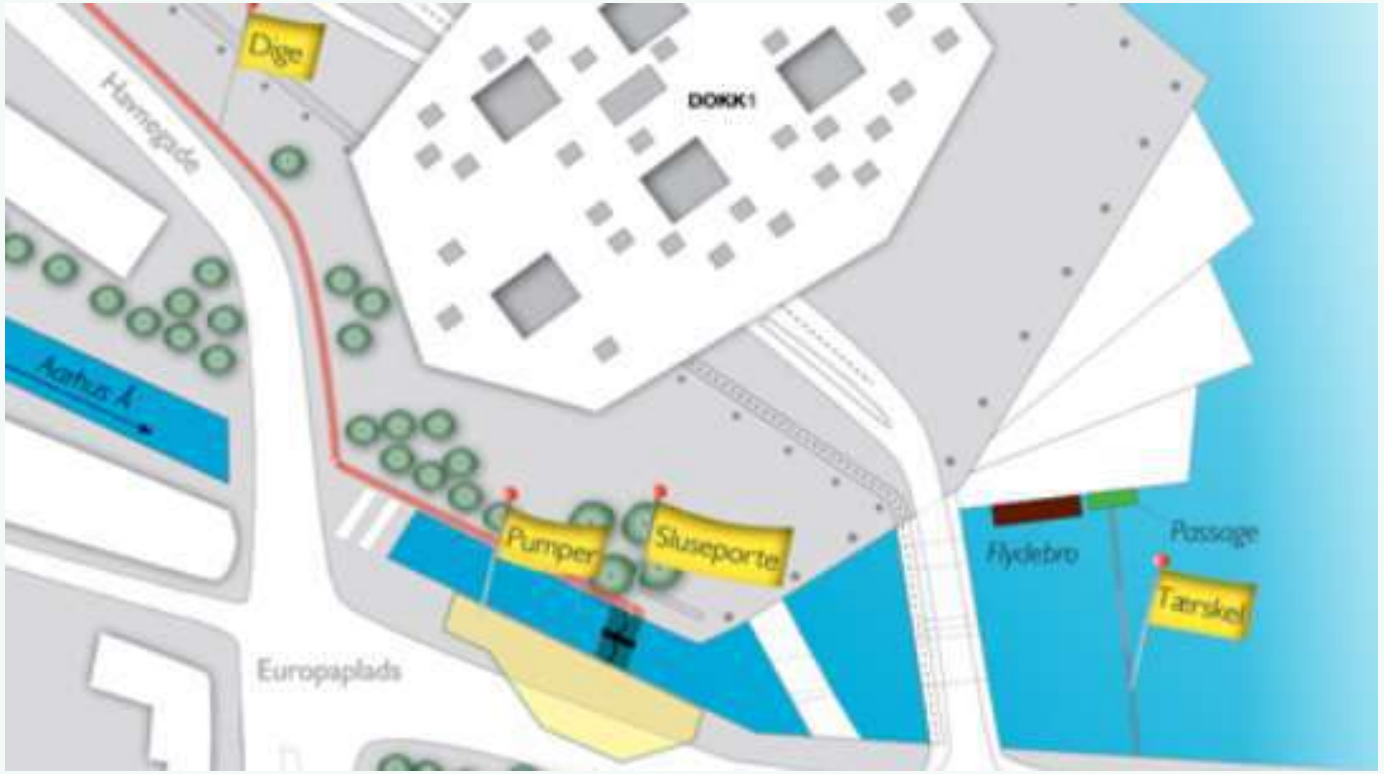
The sluice



The sluice protects central parts of Aarhus against flooding. The construction serves two purposes. Firstly, four sluice gates will protect the city against intruding seawater during high sea levels, and, secondly, six powerful pumps will pump water away from the river and into the sea during cloudbursts.

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The sluice

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The sluice gates closes when the water level in the harbor reaches 1.4 meter above average sea level.
The sluice can pump 18 m³/s from the river to the sea
The height of the sluice is 2,5 m above average sea level
The construction costs 46 million – a traditional solution with underground retention basins would have cost ten times this amount

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Thank You for your attention