

eco-Design of a sewage rain water PUMPing station in Vitry-sur-seine - France

INDUSTRIAL site, HQE® APPROACH: sewage treatment rain water station



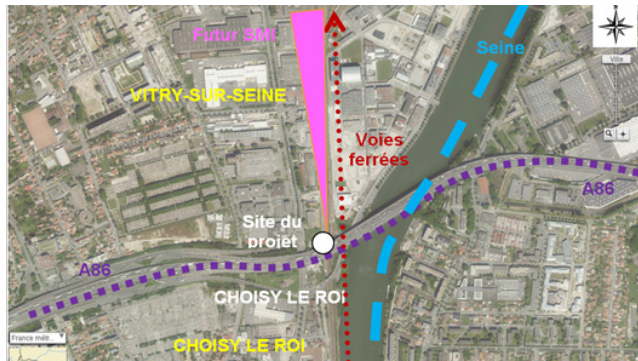
LA MAILLE VERTE

Client	Department of Val de Marne
Location	Vitry-sur-Seine
Project	Architectural and lanscape design of a sewage rain pumping station
Mission	Architectural and landscaping design HQE®
consultant	
area	220 m ²
cost	15 000 K€ HT
Date	Wining competition 2015 works receipt

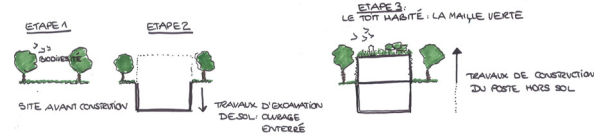


North-West view of the building

The pumping station is integrated into a dense urban context, on the East side are located railways, to the North, futur buildings, to the South, 86th highway and to the West, an industrial area of Vitry-sur-Seine. The concept of the architectural and landscaping design project was to create a green ditch in the urban territory by restoring biodiversity on site.

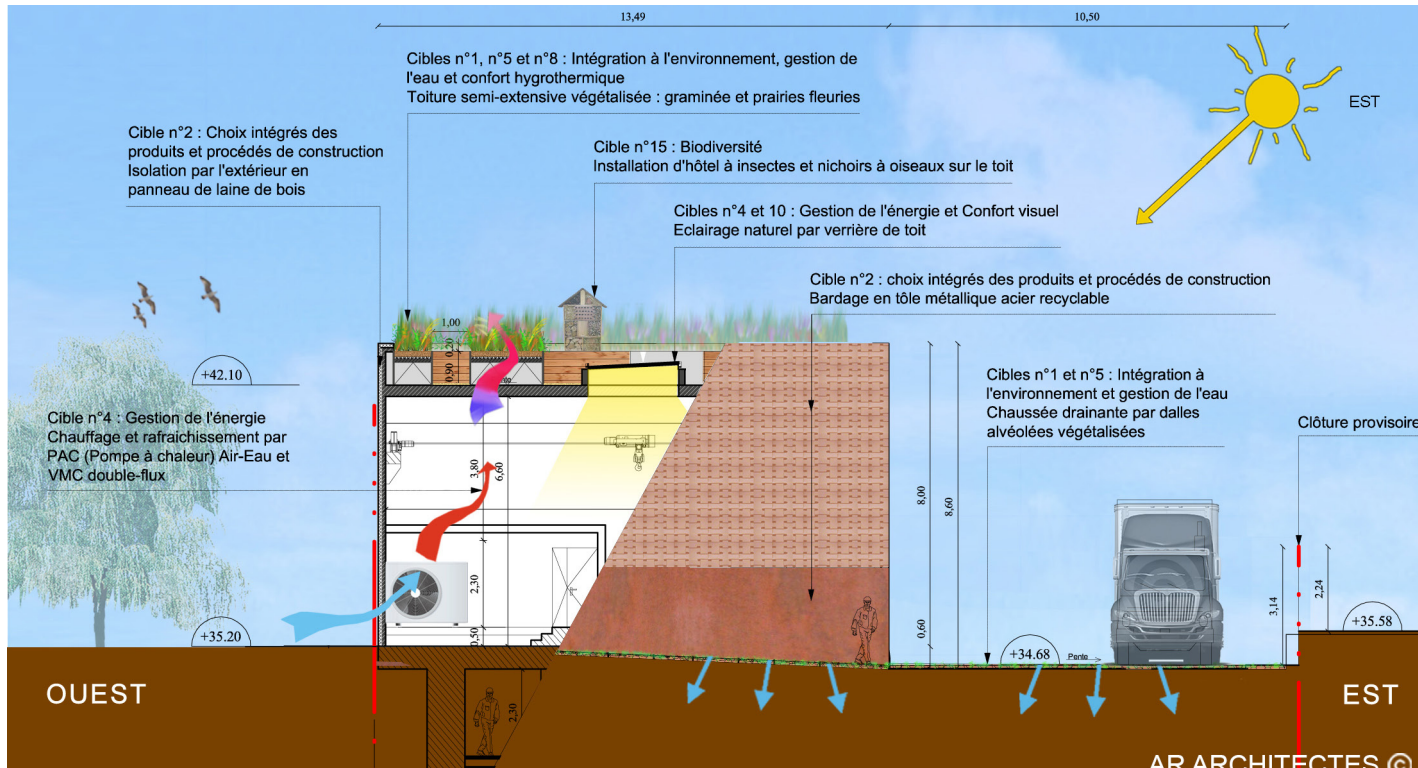


Landscape ground plan

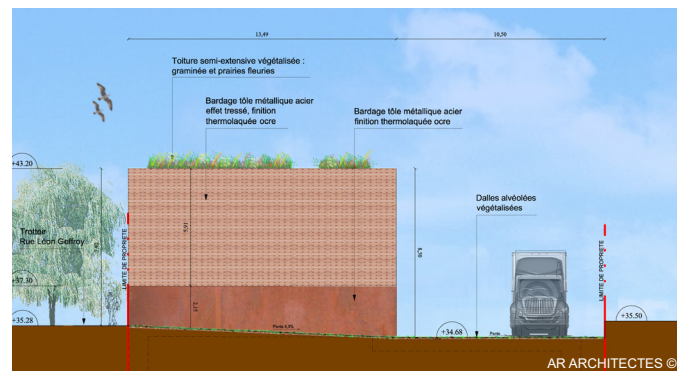


Concept design sketches

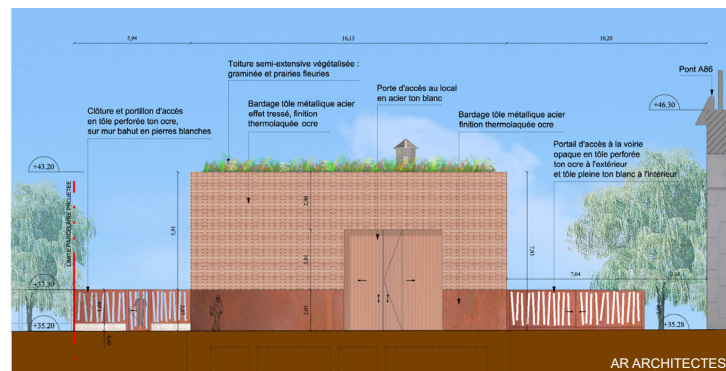




Sustainable section



South section, A86 bridge side



West section, Léon Geffroy road side

HQE® targets

Target 1: Harmonious relation between building and its environment

Outdoor spaces quality for users:

- The objective was to provide facades with biodegradable materials, such as steel and recyclable insulation (wood wool).
- Natural areas: green roof and green roads (planted slabs)

Target 2: Choice of integrated products and building materials

- Sustainable materials are used : aluminum cladding, stone cladding, green roof and wood wool (insulation)

Target 3: Energy management

- Thermal insulation using wood wool
- Heating pump air-water

Target 5: Water management

- Water management by green roofs
- Runoff water management on roads with planted slabs

Targets 8 and 9:

- Thermal and acoustic comfort is ensured with a green roof and insulation (wood wool)

