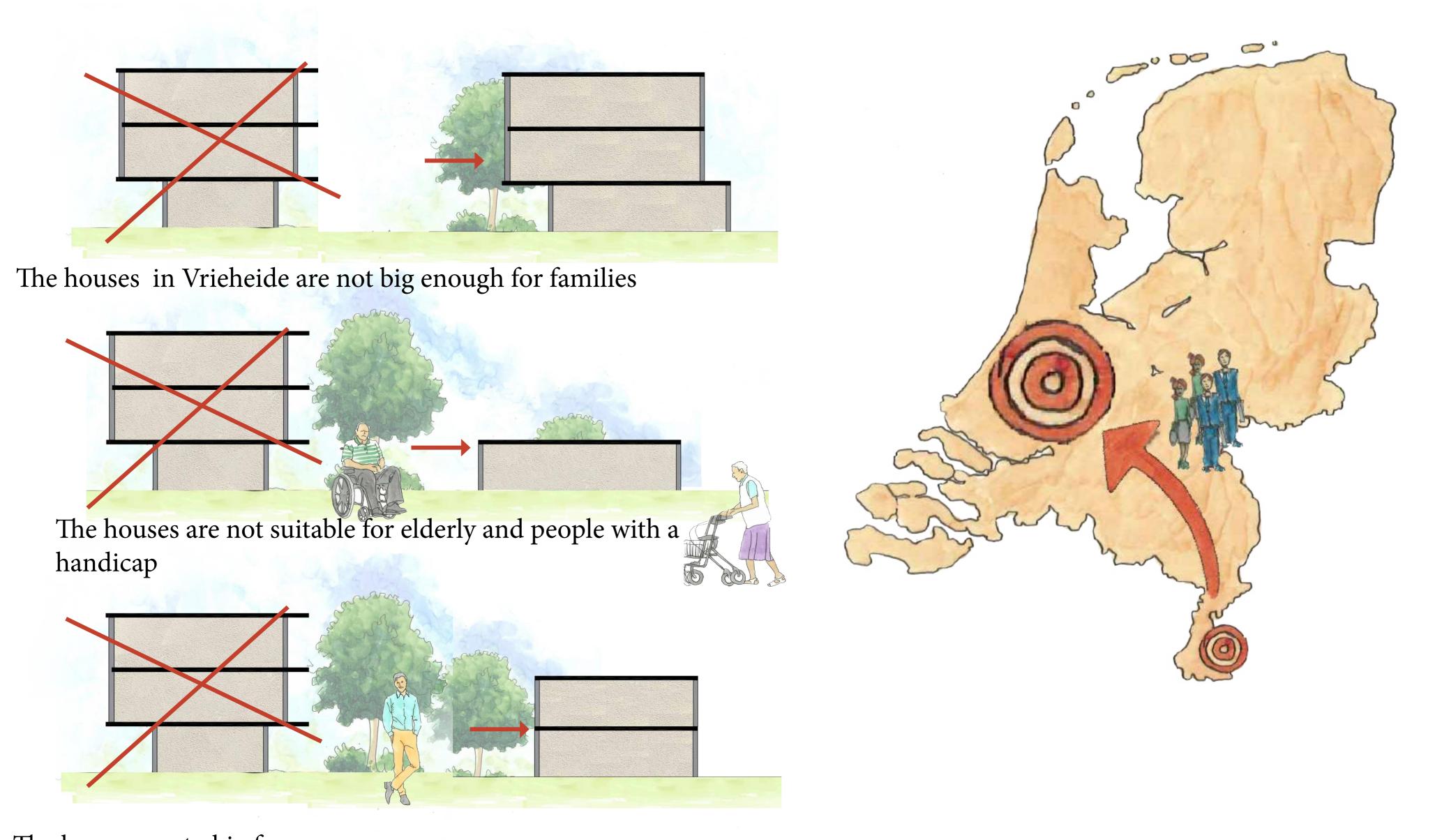
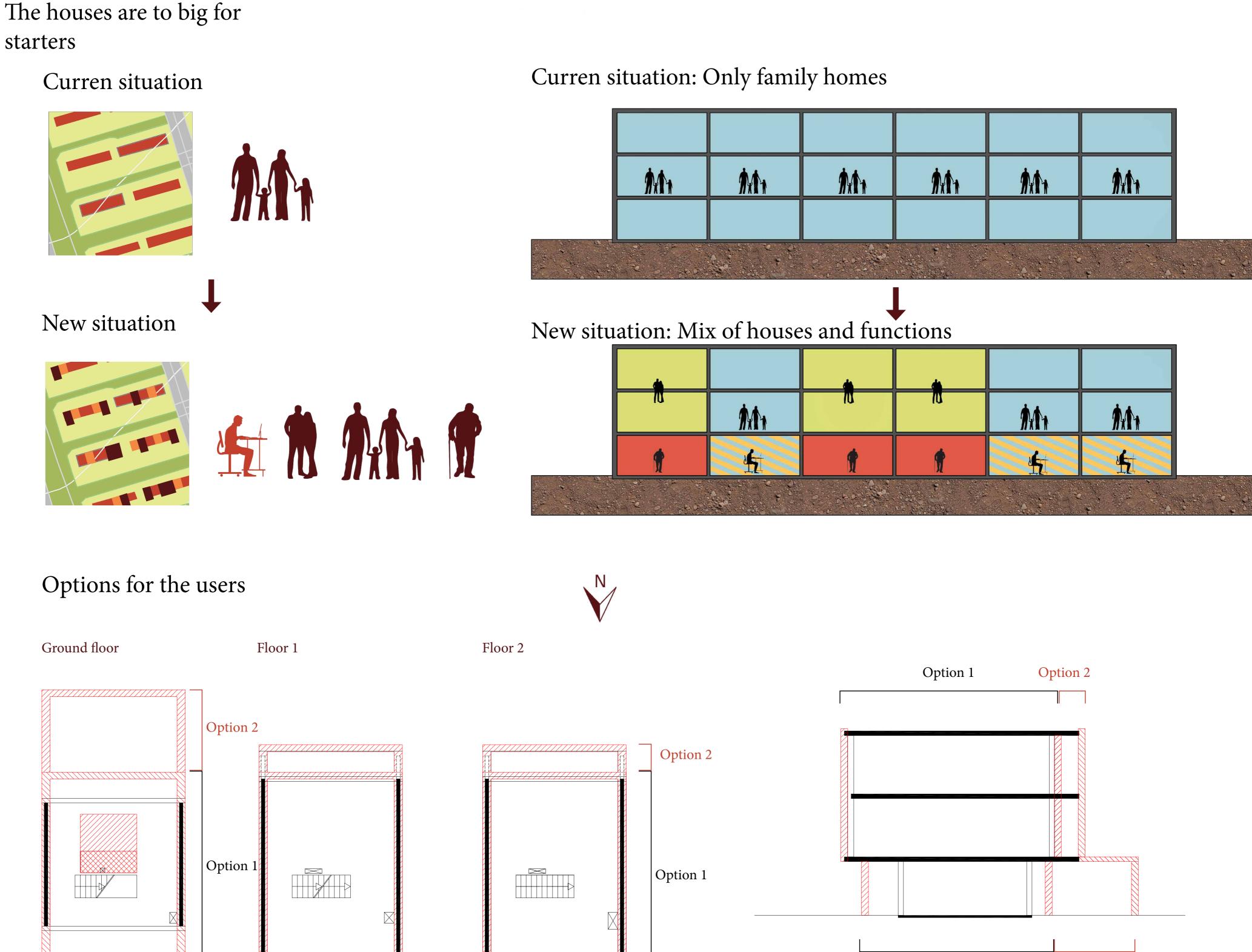




From monotone to multifunctional



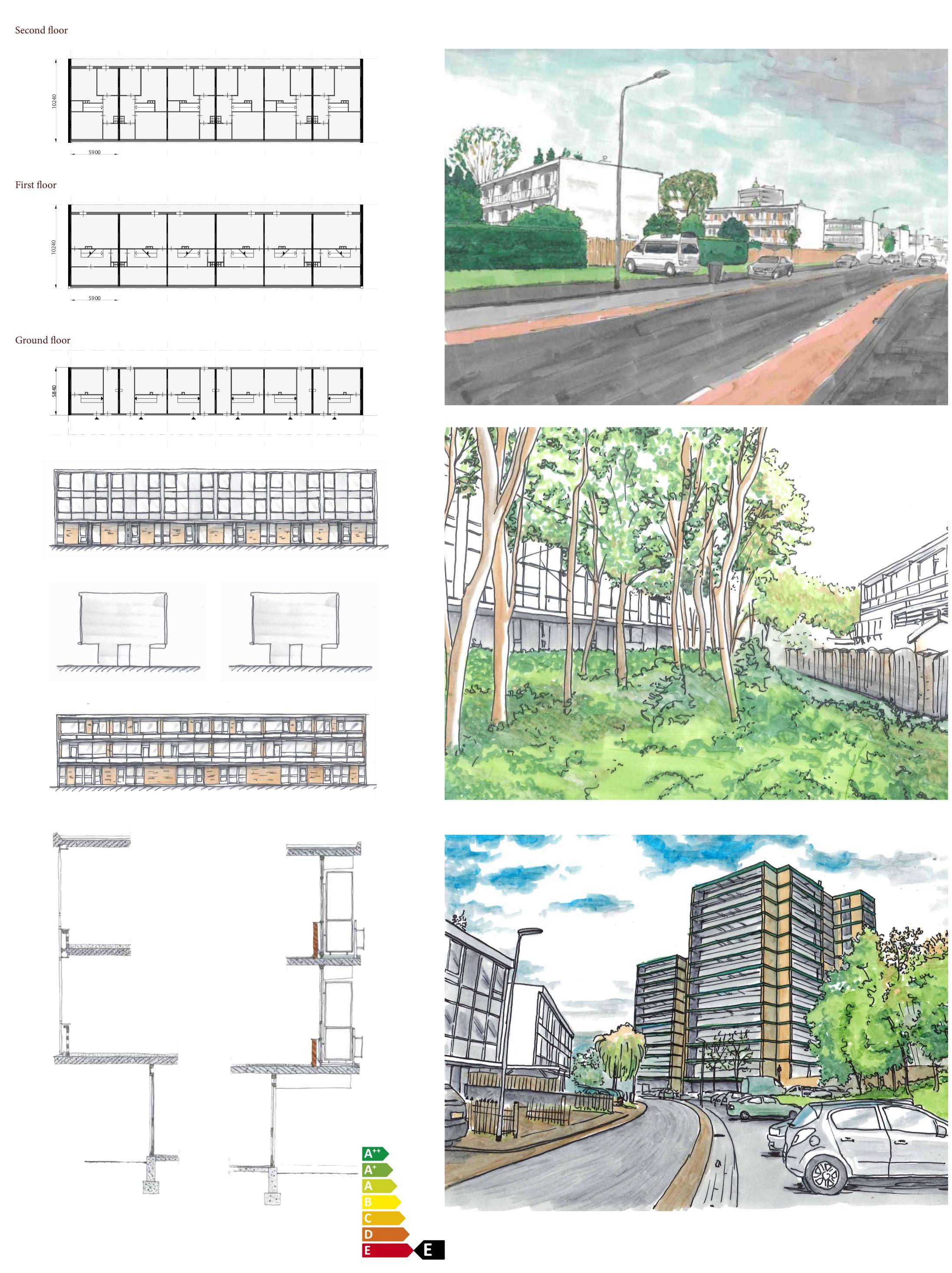
starters



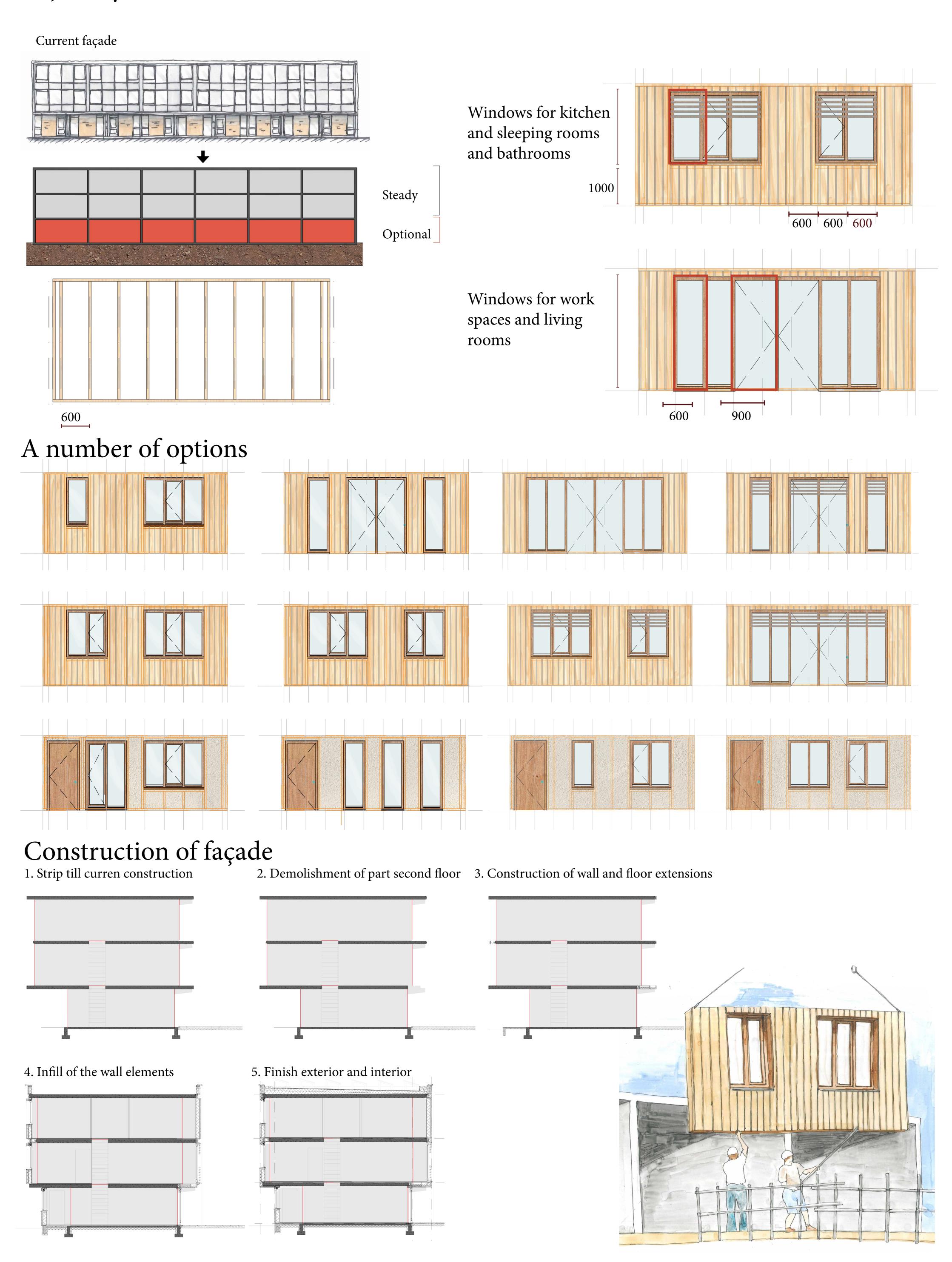
Option 2

Option 1

Current situation



Façade system



Façades 1:100



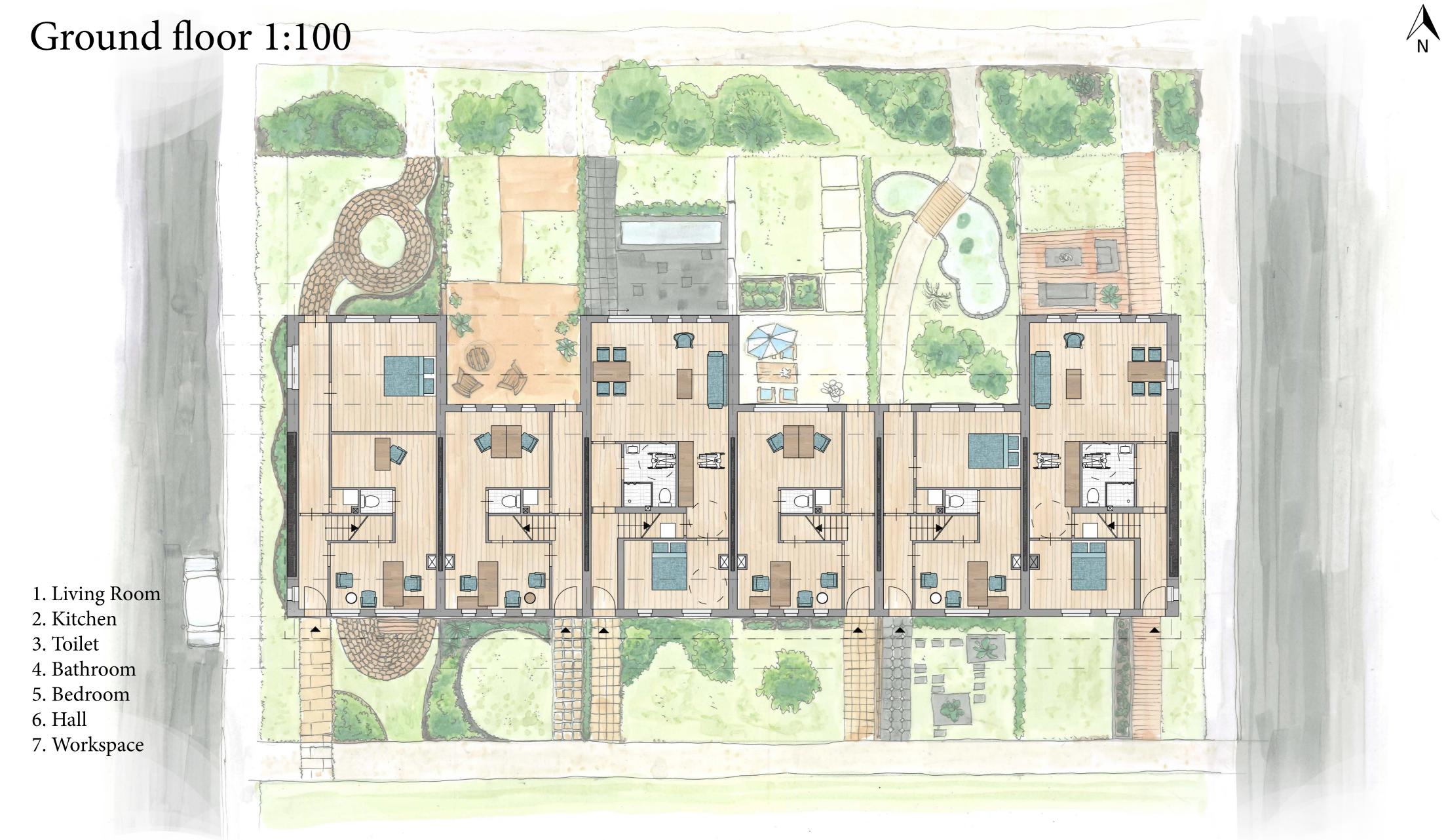
North façade



West façade East façade



South façade





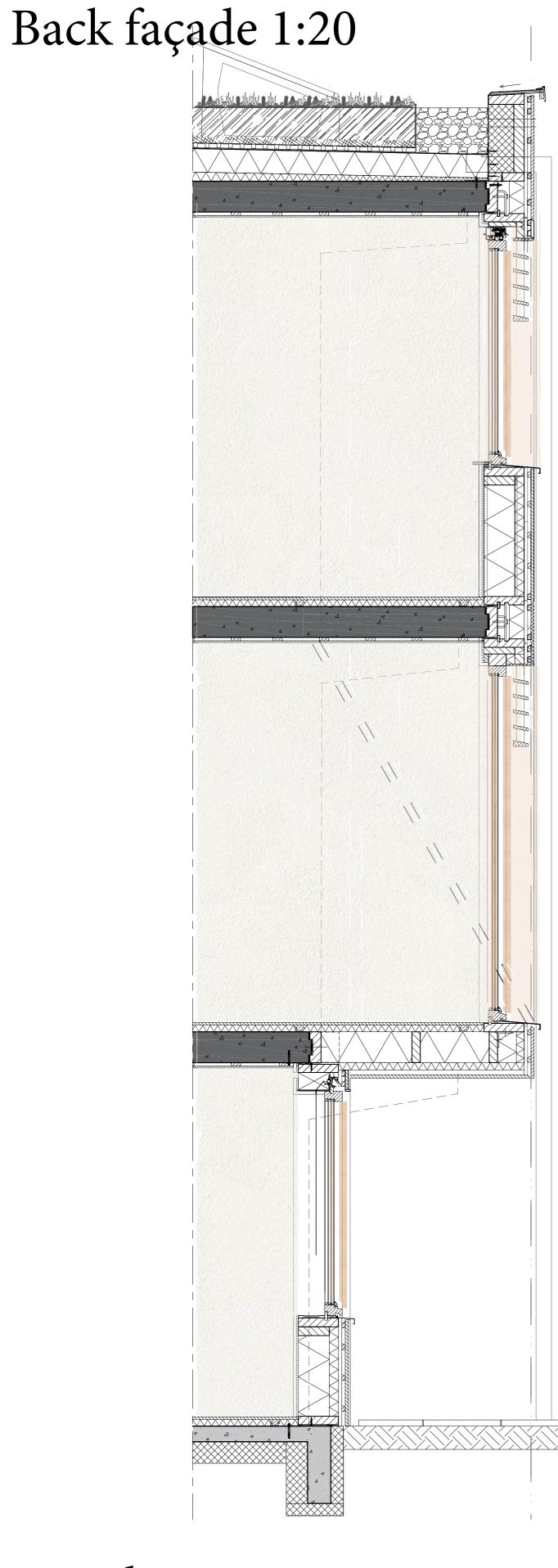


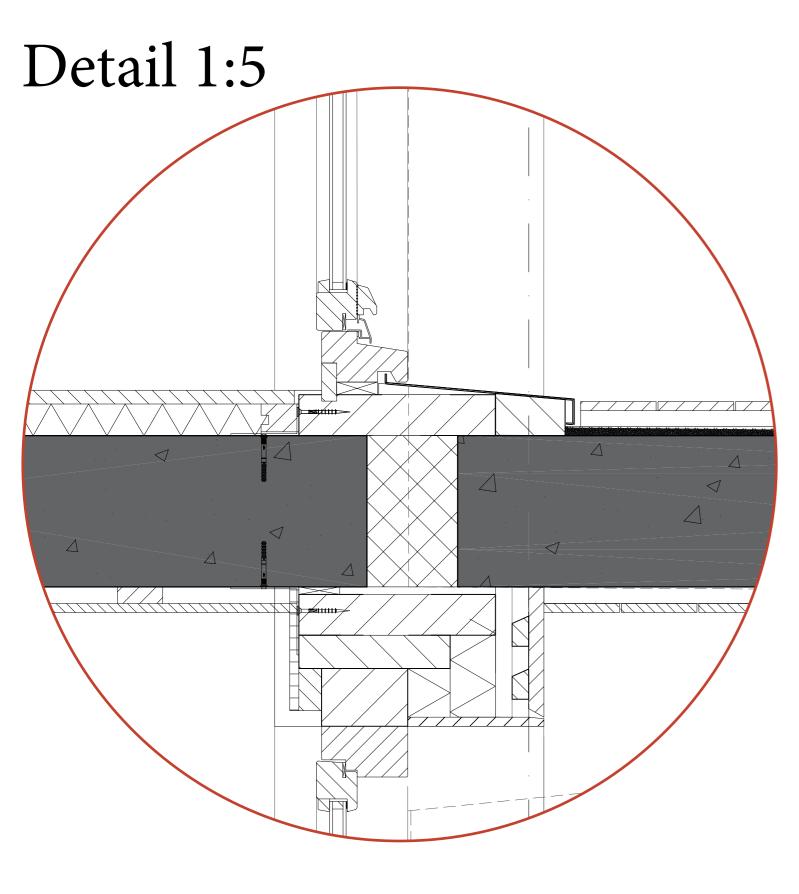


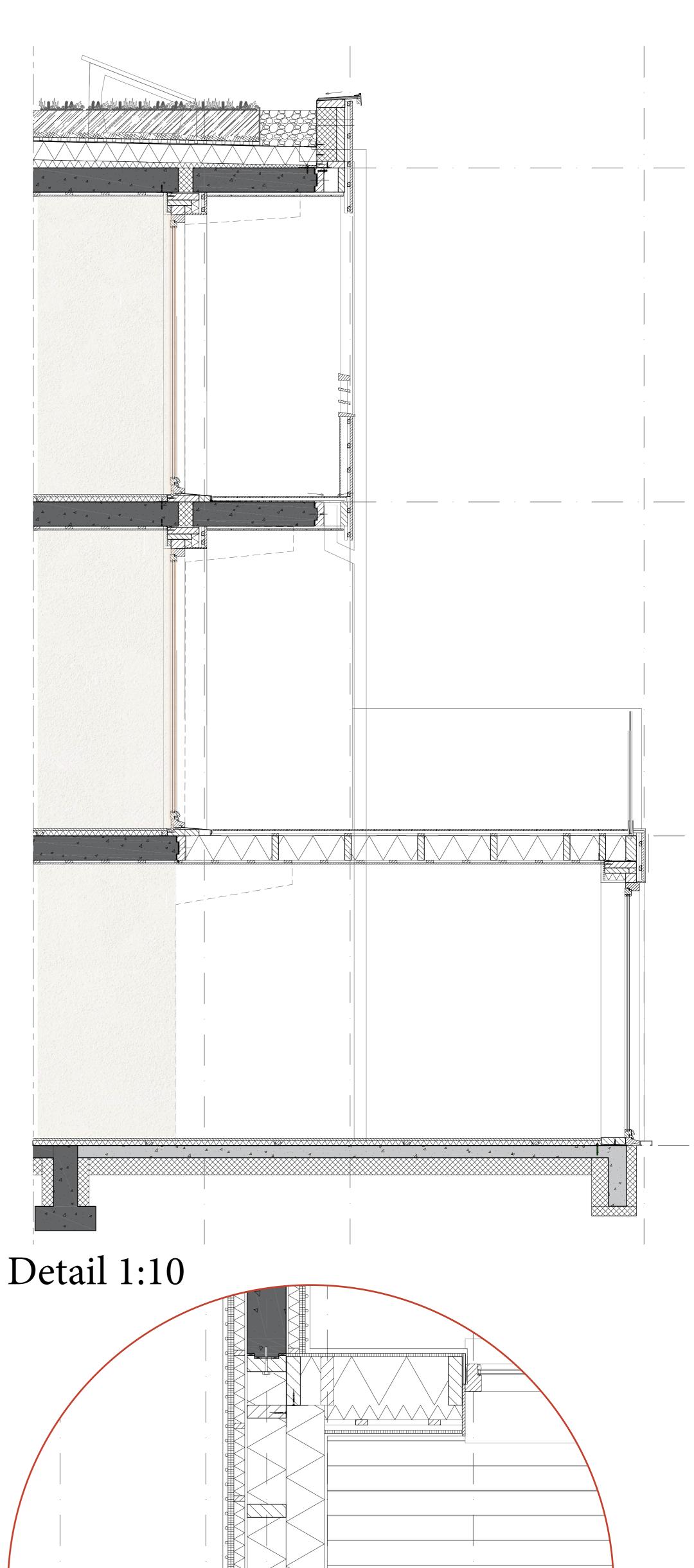


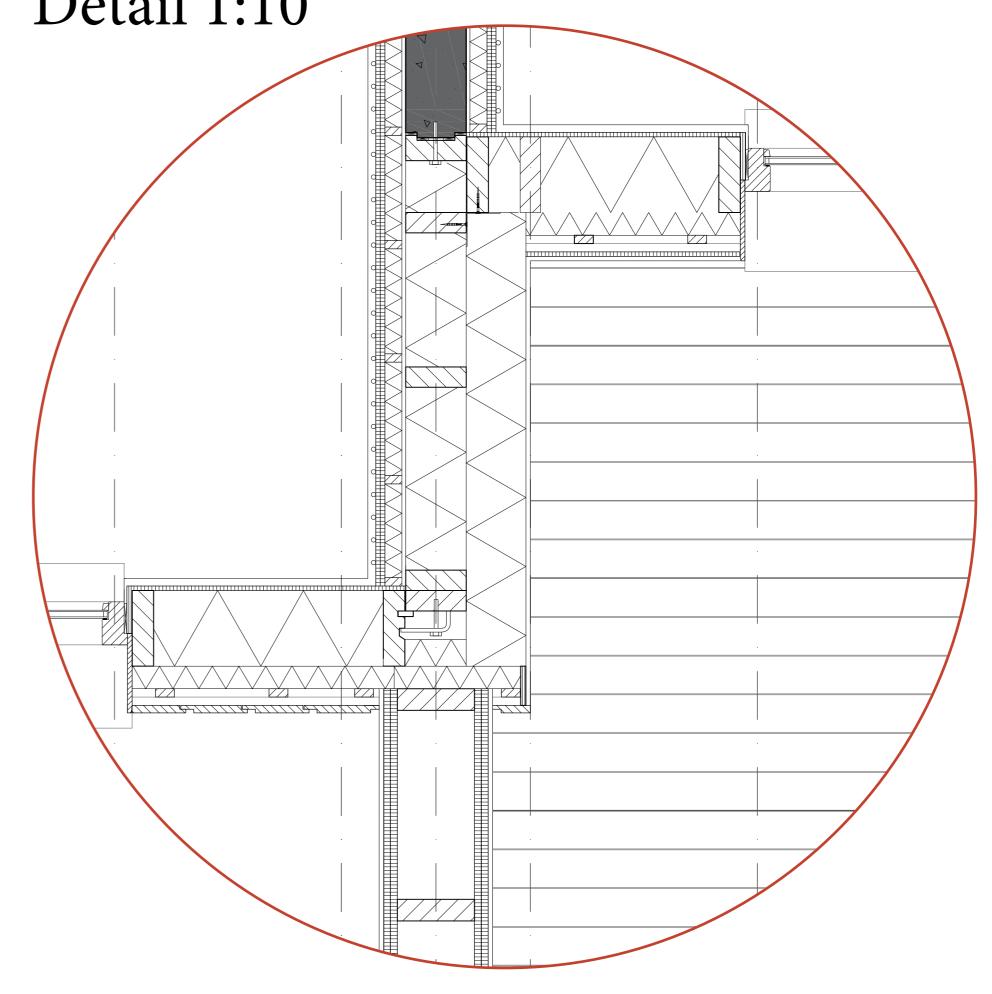






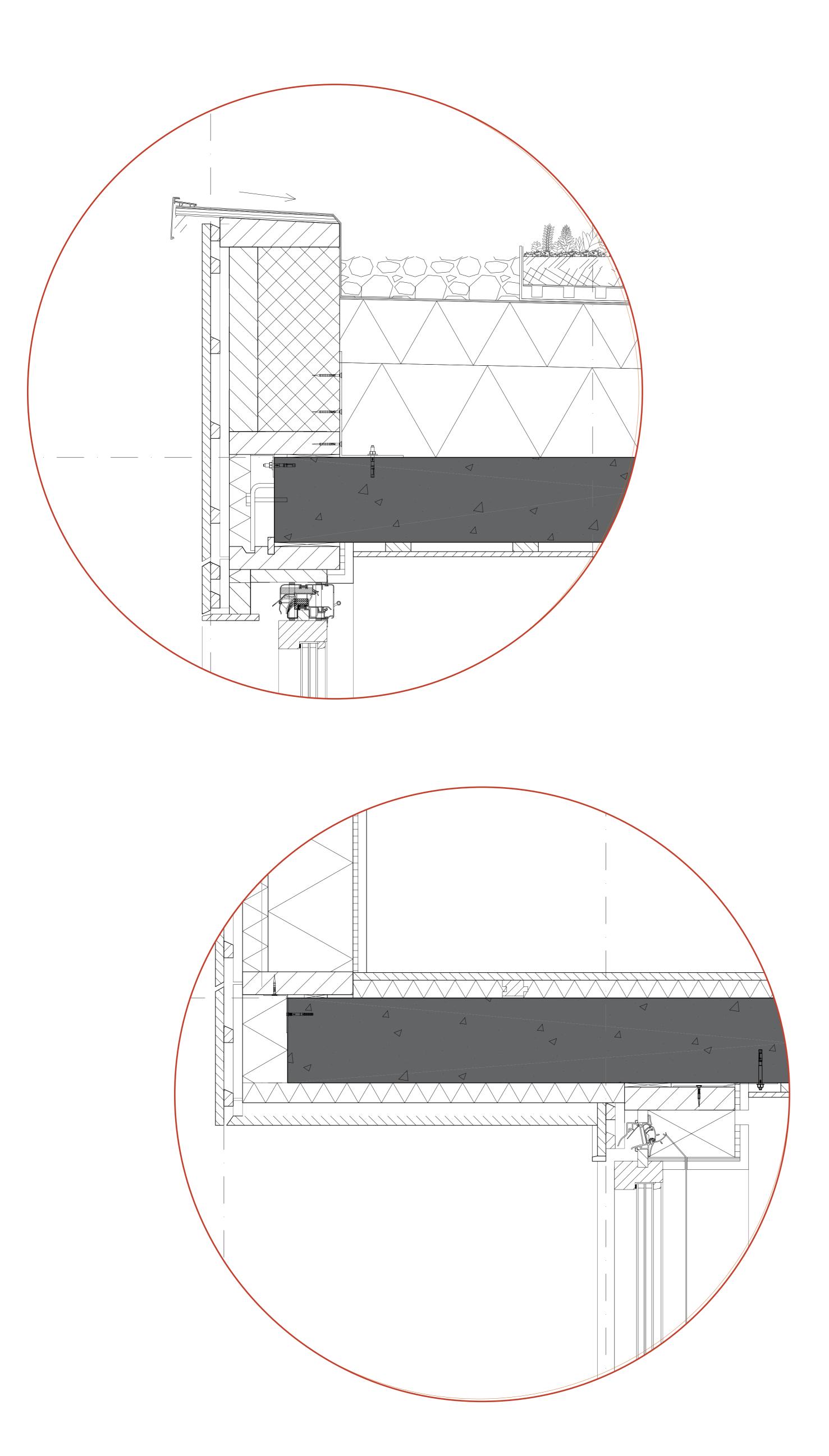






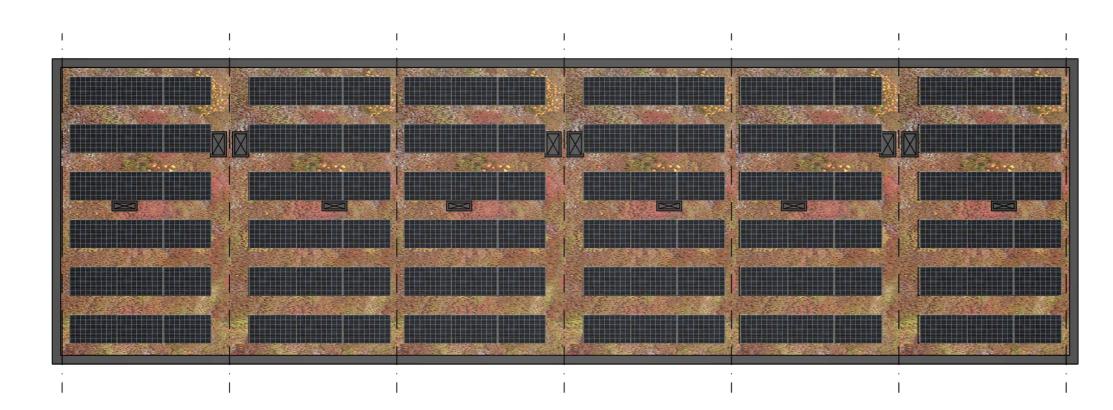


Details 1:5



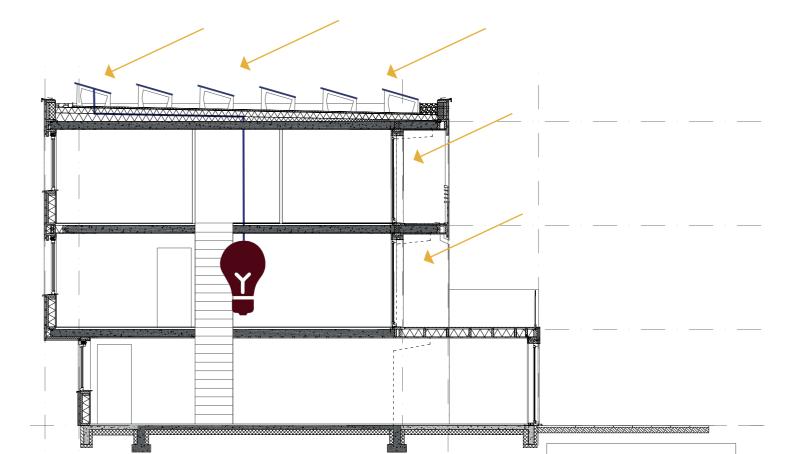
Climate systems 1:100

Roof plan

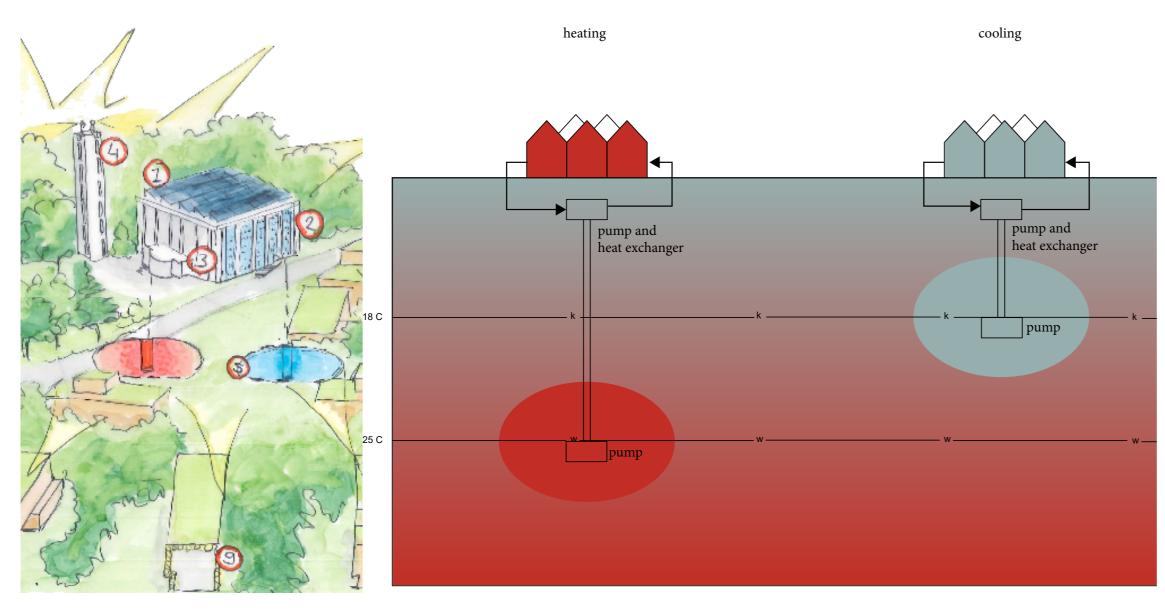


Heating pumps for tap water neighbourhood

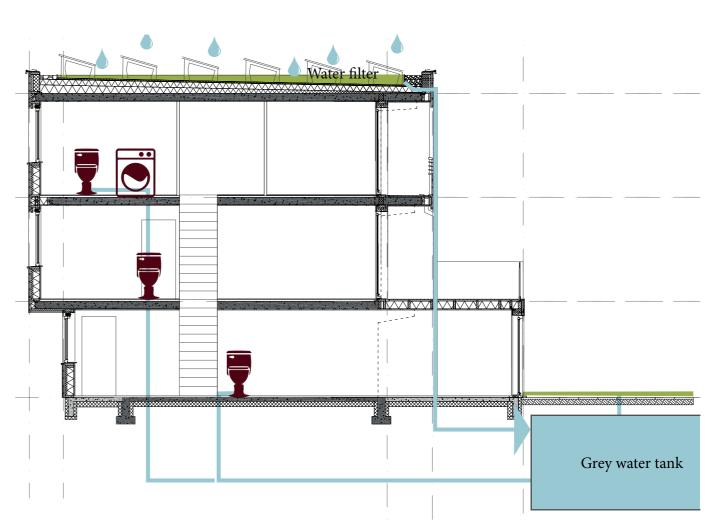
Use of water from old mine shafts to heat and cool the buildings



sedum roof to clean water and to cool down the building

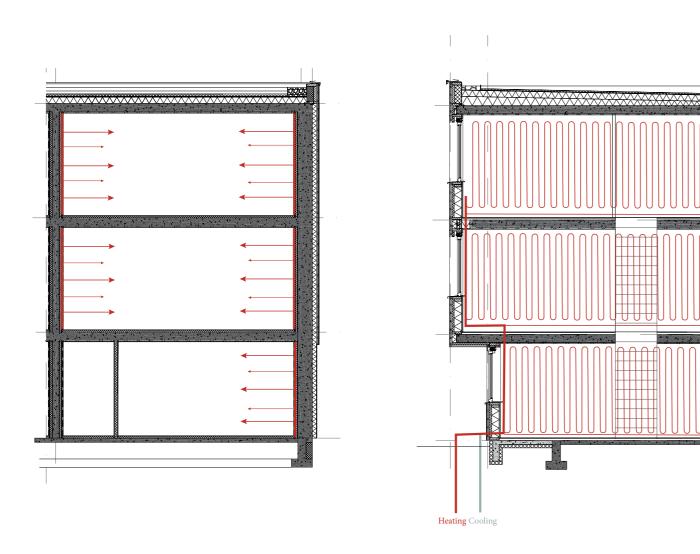


Low temperature heating and cooling wallsystem

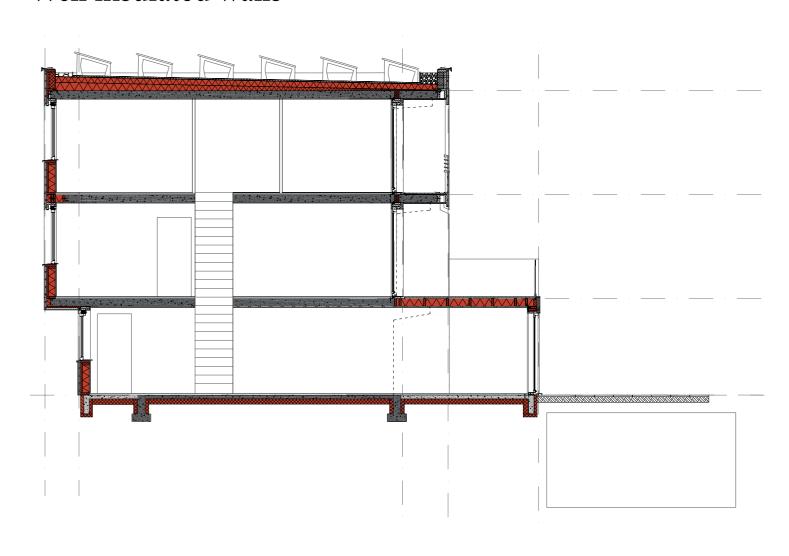


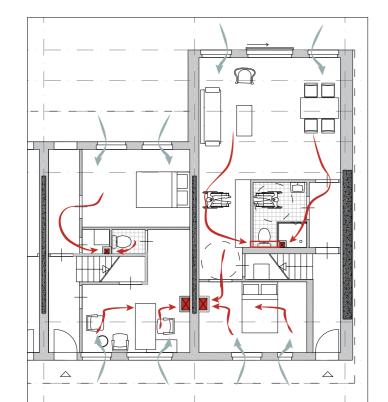
Well insulated walls

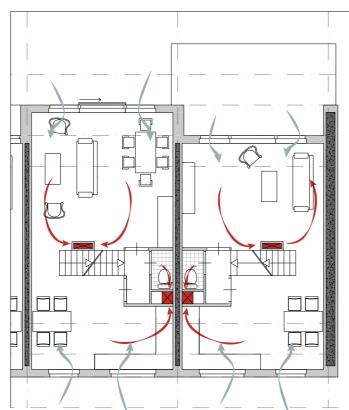
Solar panels for energy

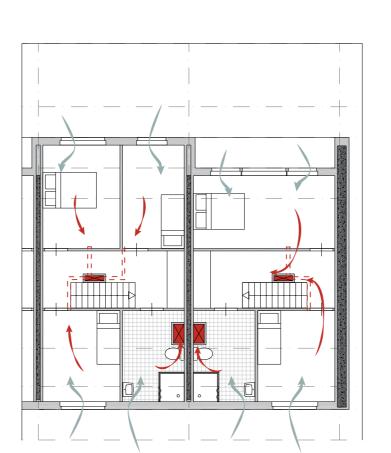


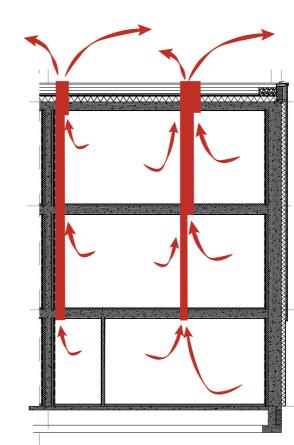
Ventilation: Natural imput and demand-driven extraction ventilation

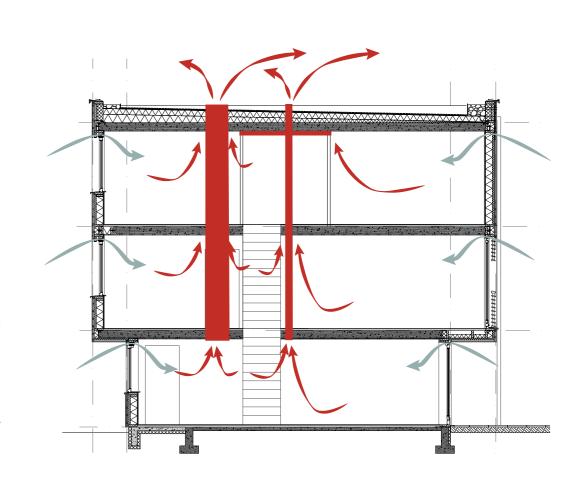




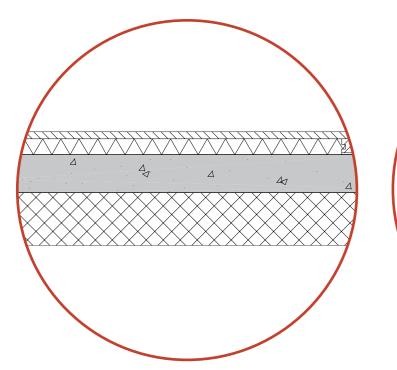


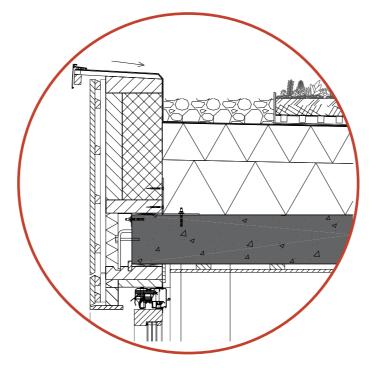


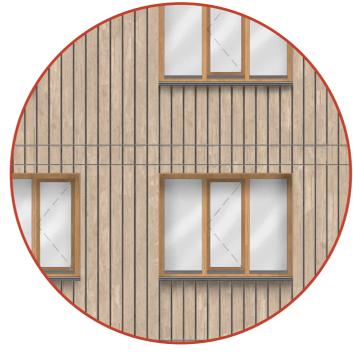




Energy neutral







EPC values:
House on corner -0,117
House with small ground floor -0,017
House with large ground floor -0,174

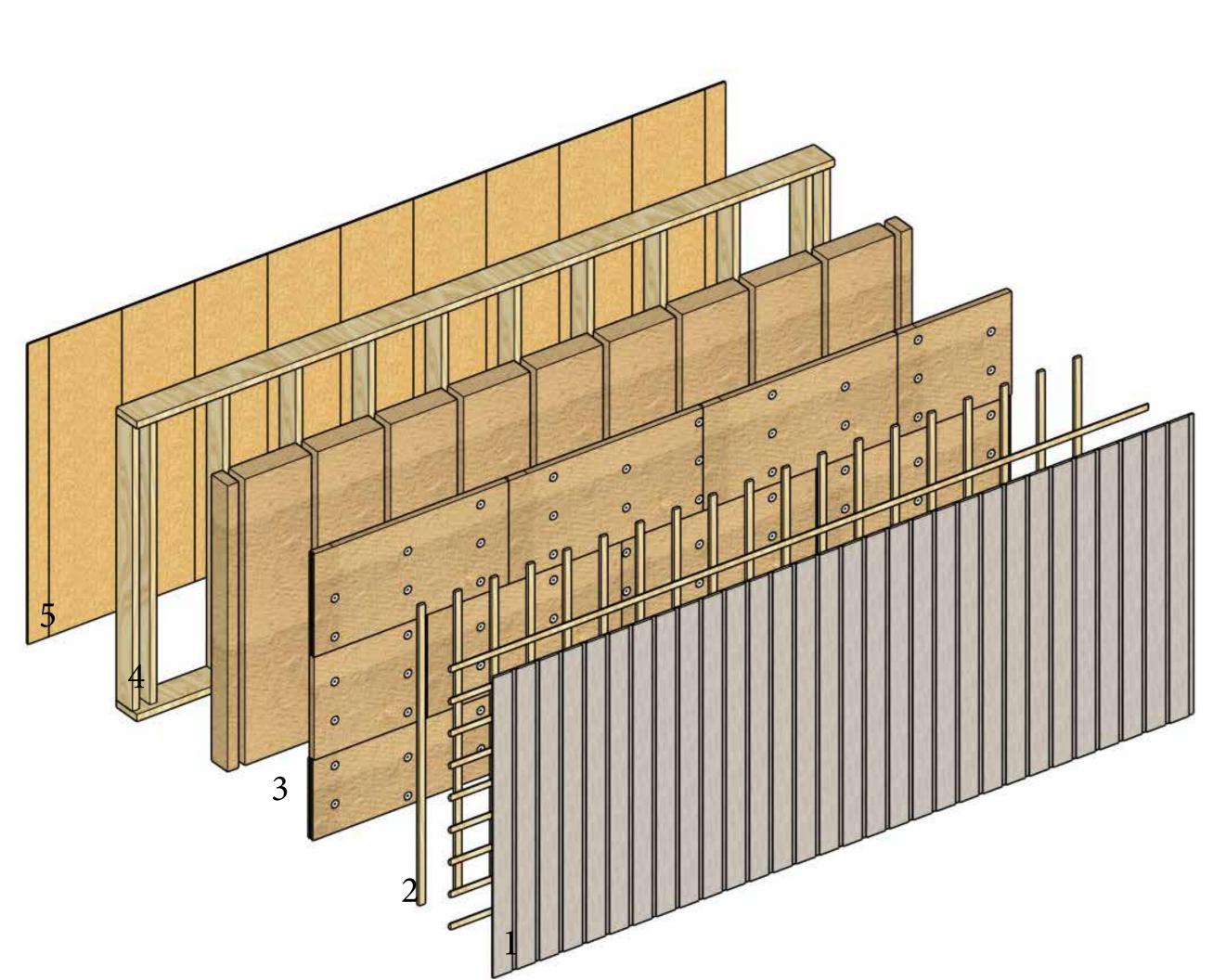
Floor: 0,177 W/m²K Façade: 0,153

Façade: 0,151 W/m²K R

Roof: 0,117 W/m²K

Windows: 0,95 W/m²K

Materialisation



1. Accoya wood (acetylated wood) with stainless steel nails



2. Lats of pine sylvestris (Grenen)



3. Woodfibre insulation with special nails



4. Larch beams for sturcture and stainless steel ankers and screws



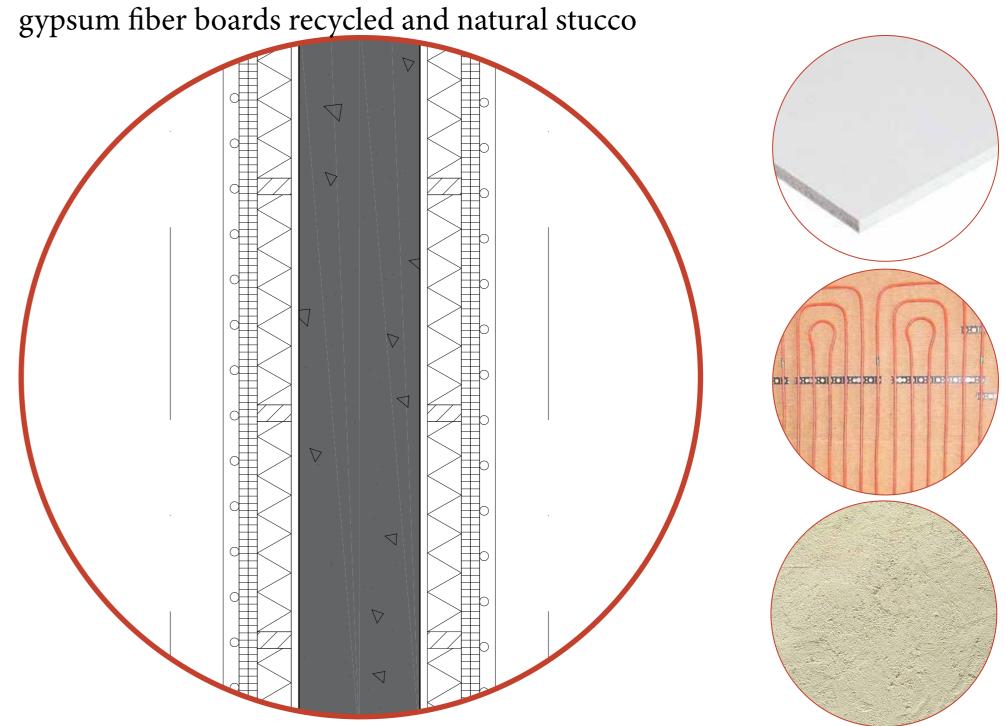
5. OSB panel that are connected with screws



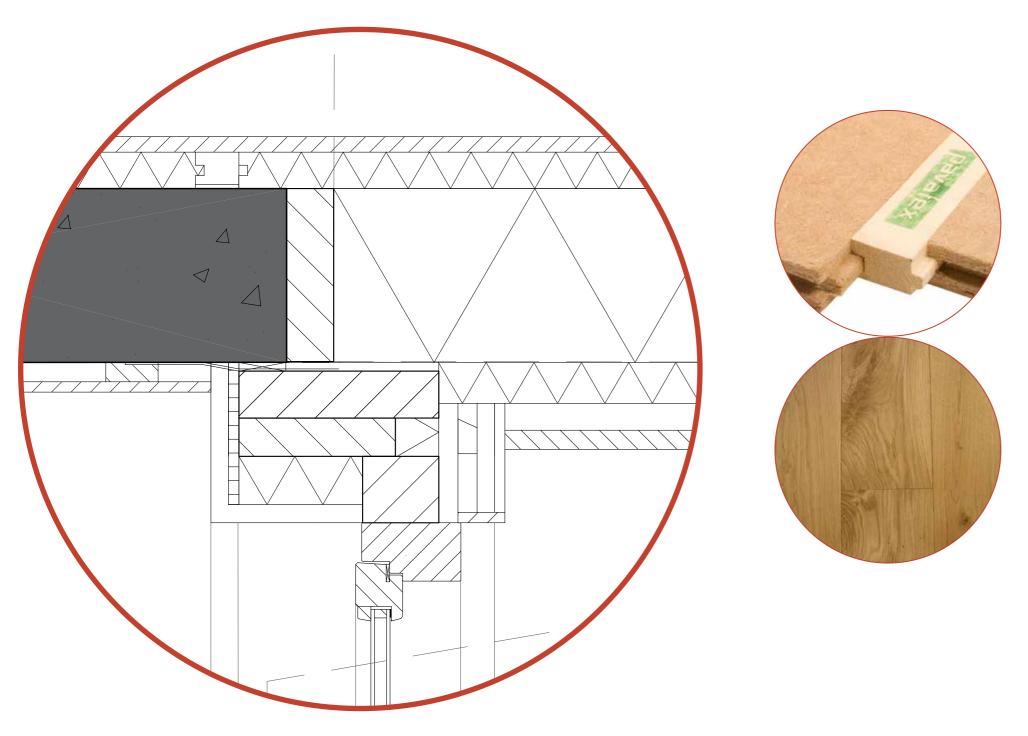
Window frames of accoya wood



House seperating walls
Reduce sounds and heat houses



Woodfibre insulation to reduce contact sound



Hard woodfiber insulation and sedum roof

