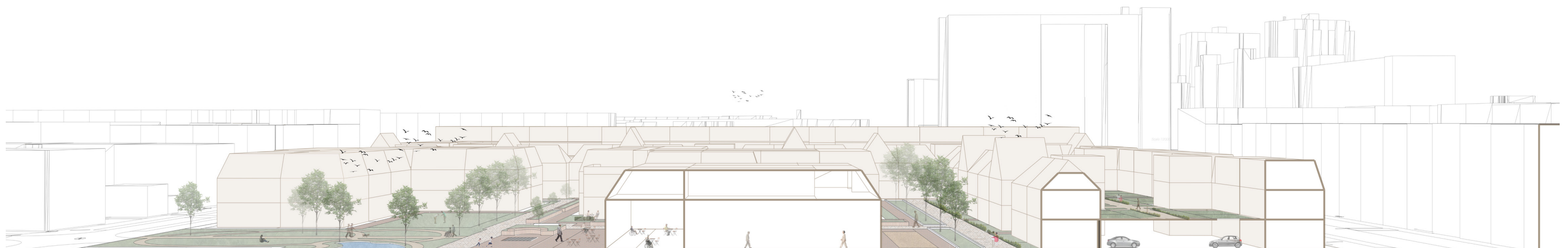


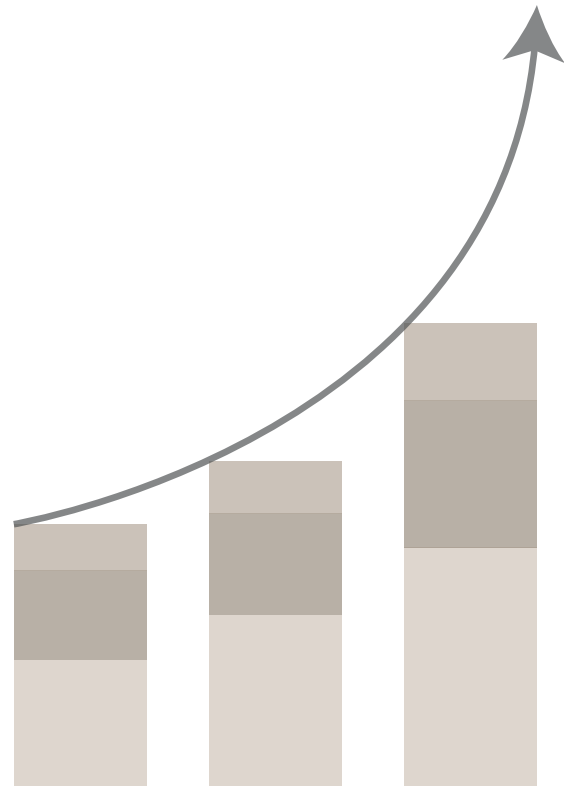
Ageing in and through the neighborhood

A living environment and social network where neighborhood and family together contribute to supporting aging, focusing on dementia



Problemstatement

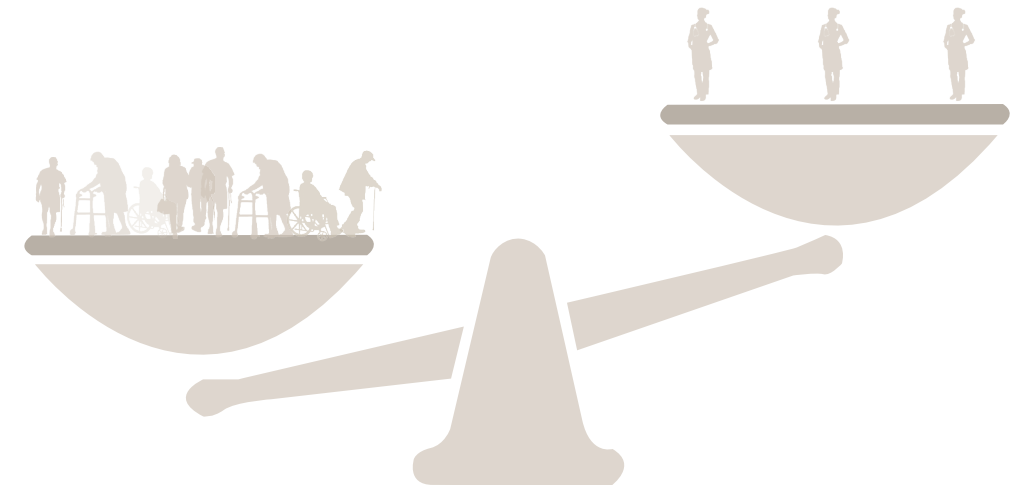
01 Growing shortage of healthcare staff



02 Insufficient adequate dementia care housing

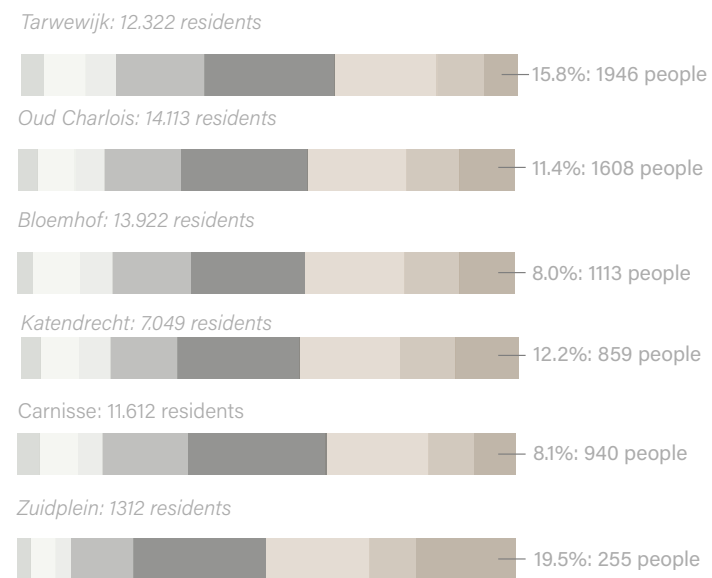


03 Disbalance between formal caregivers and people with dementia

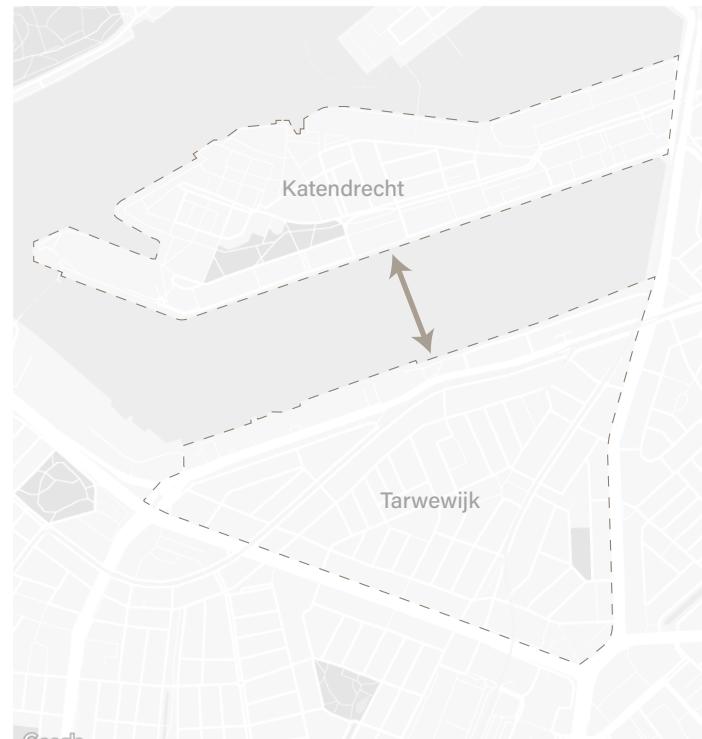


Relevance

01 Amount of people aged 65 and older



02 Future connection Katendrecht and Tarwewijk



03 No small scale dementia care facility



Research question

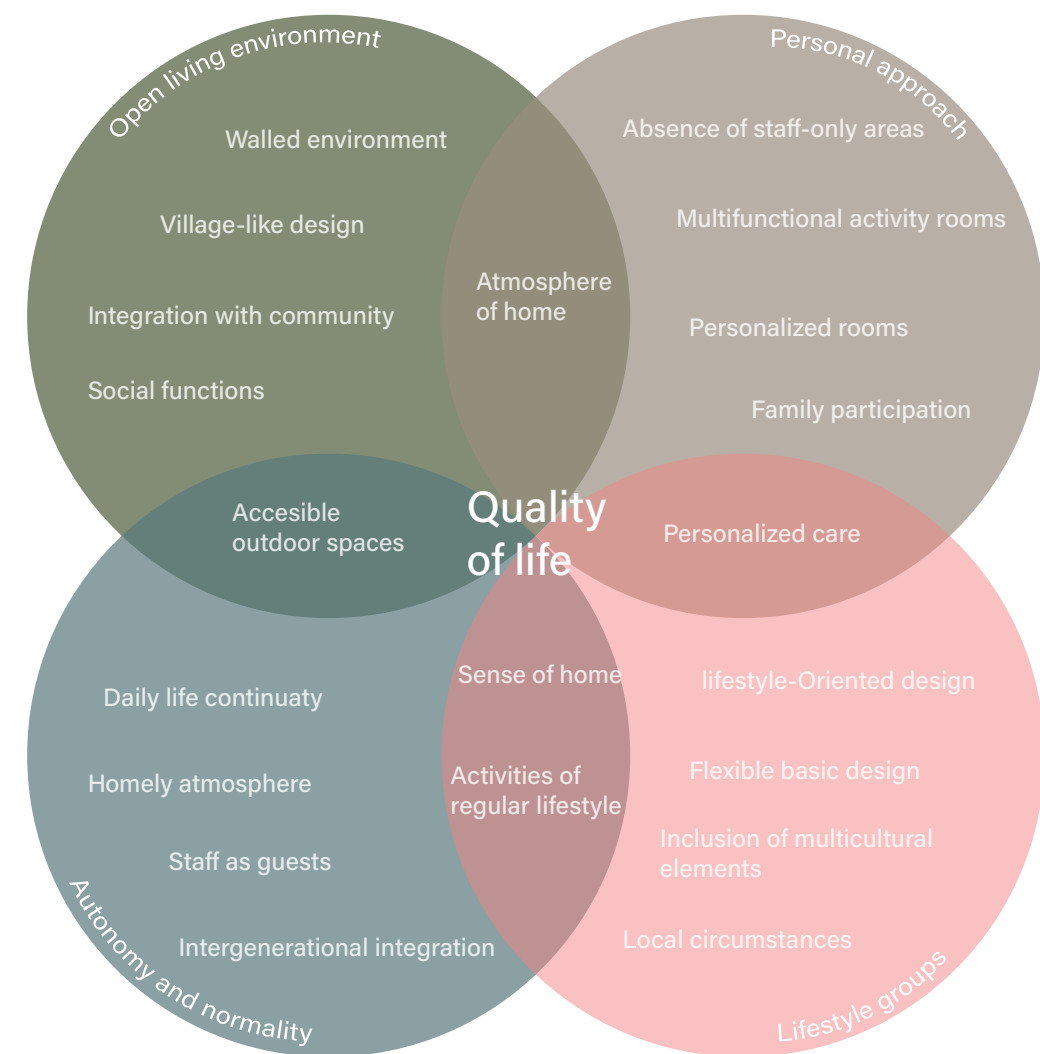
'How can insights from dementia-friendly architecture and Hogeweyk Care Concept be used to develop a care and living environment for people with dementia in the Tarwewijk?'

Literature

01 Architectural perspective



02 Care perspective



Fieldwork and interviews Tarwewijk

03

Fieldwork

Boswijk



Randerode



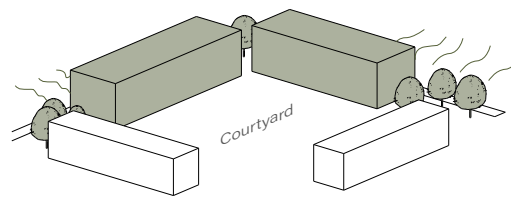
04

Interviews Tarwewijk



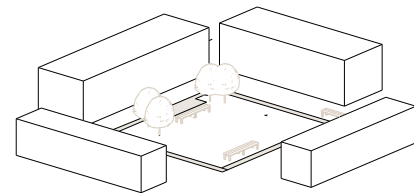
Context-level results

Environment and
outdoor spaces



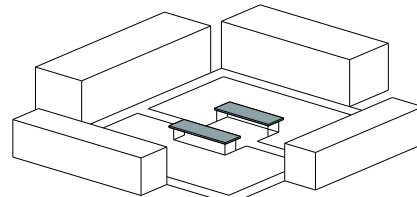
Using buildings and vegetation
to reduce noise

Spaces and layout



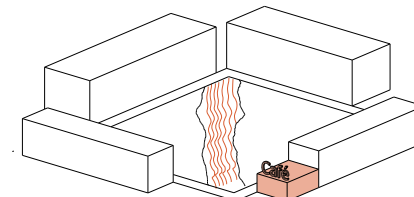
Smooth pathways with sufficient
rest areas that allow space for social
interaction

Personal approach
and autonomy



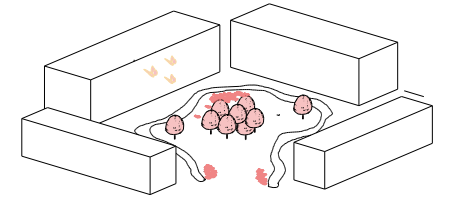
Covered outdoor spaces for year-
round use

Orientation and
navigation



Integrating clear landmarks into the
environment

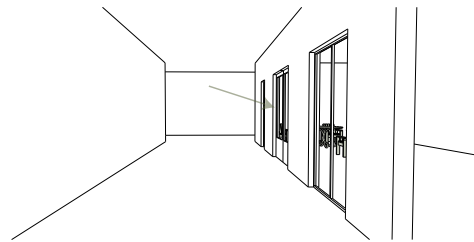
Sensory
perception



Integration of greenery to promote
sensory perception stimulation
through scents and to enhance
biodiversity

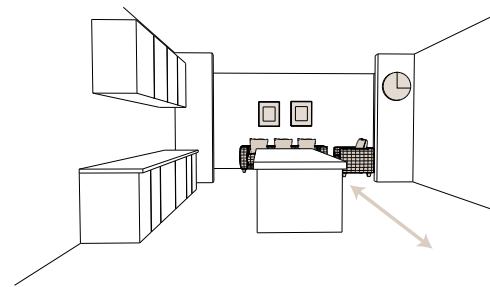
Building level results

Environment and
outdoor spaces



Visible outdoor furniture

Spaces and layout



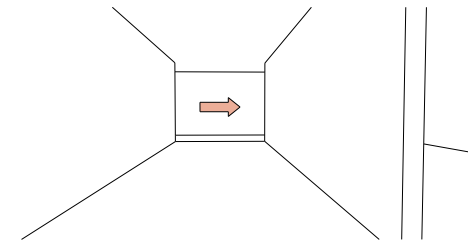
Creating a homely
atmosphere

Personal approach
and autonomy



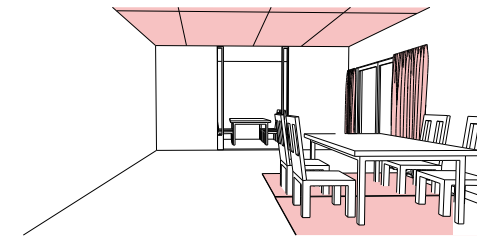
Enough space for walkers and
wheelchairs

Orientation and
navigation



Clear signage at eye level

Sensory
perception



Use of sound-absorbing
materials

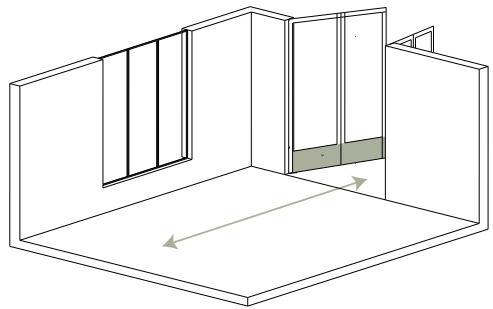
Room level results

Environment and
outdoor spaces

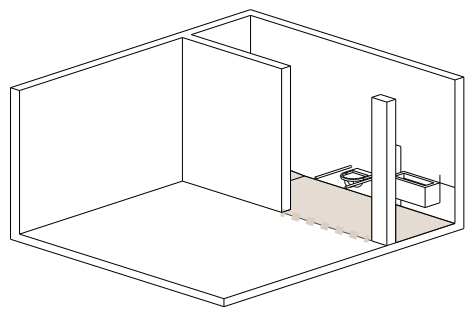
Spaces and layout

Personal approach
and autonomy

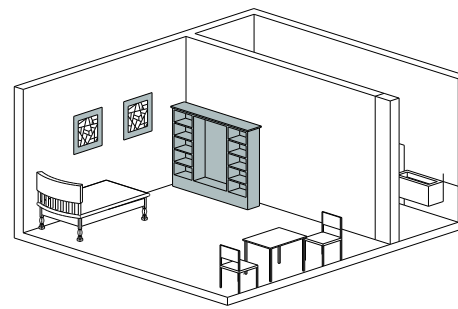
Orientation and
navigation



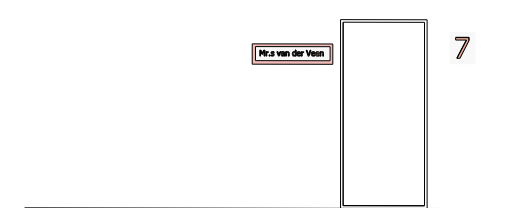
French doors to enhance the
connection with the outdoors



Creating a homely
atmosphere



Creating a sense of home with
personal belongings



Personal nameplates with
clear text and the use of color
contrast

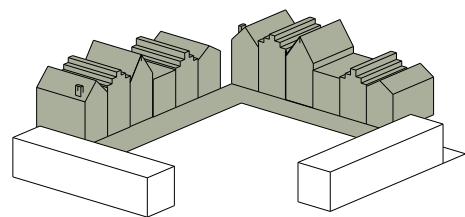
The strong foundations of the Hogeweyk Care concept

Open living
environnement

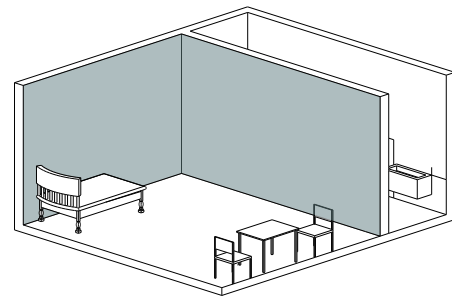
Autonomy and
normality

Personal approach

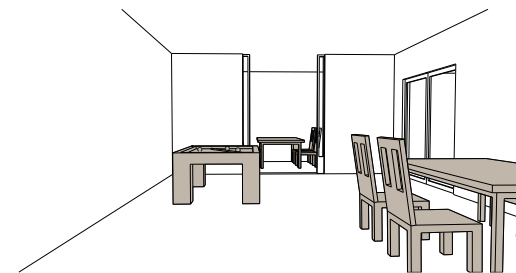
Lifestyle groups



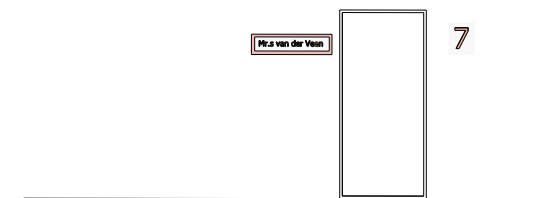
Architecture that represents
'normal' life



Use of warm colors to enhance
the sense of home



The integration of
multifunctional spaces for
activities



The integration of local
decorations to establish the
location as a shared cultural
background

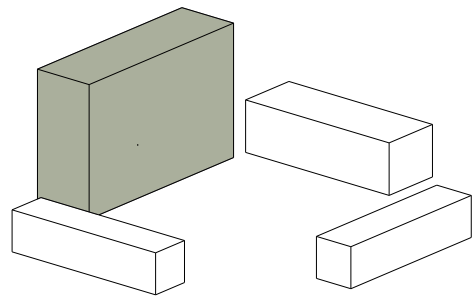
Improvements of the Hogeweyk Care Concept

Open living
environnement

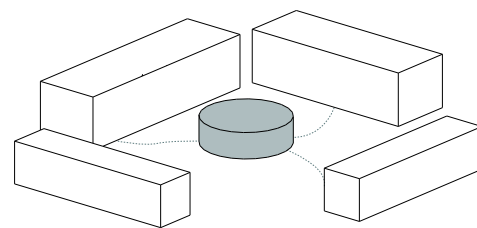
Autonomy and
normality

Personal approach

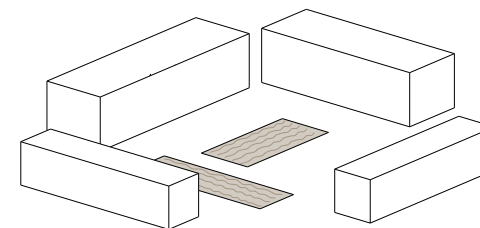
Lifestyle groups



Verticality for usability in an
urban context



A multifunctional center
with facilities to promote
intergenerational community



Accessible gardens to
strengthen the sense
of community in the
neighborhood



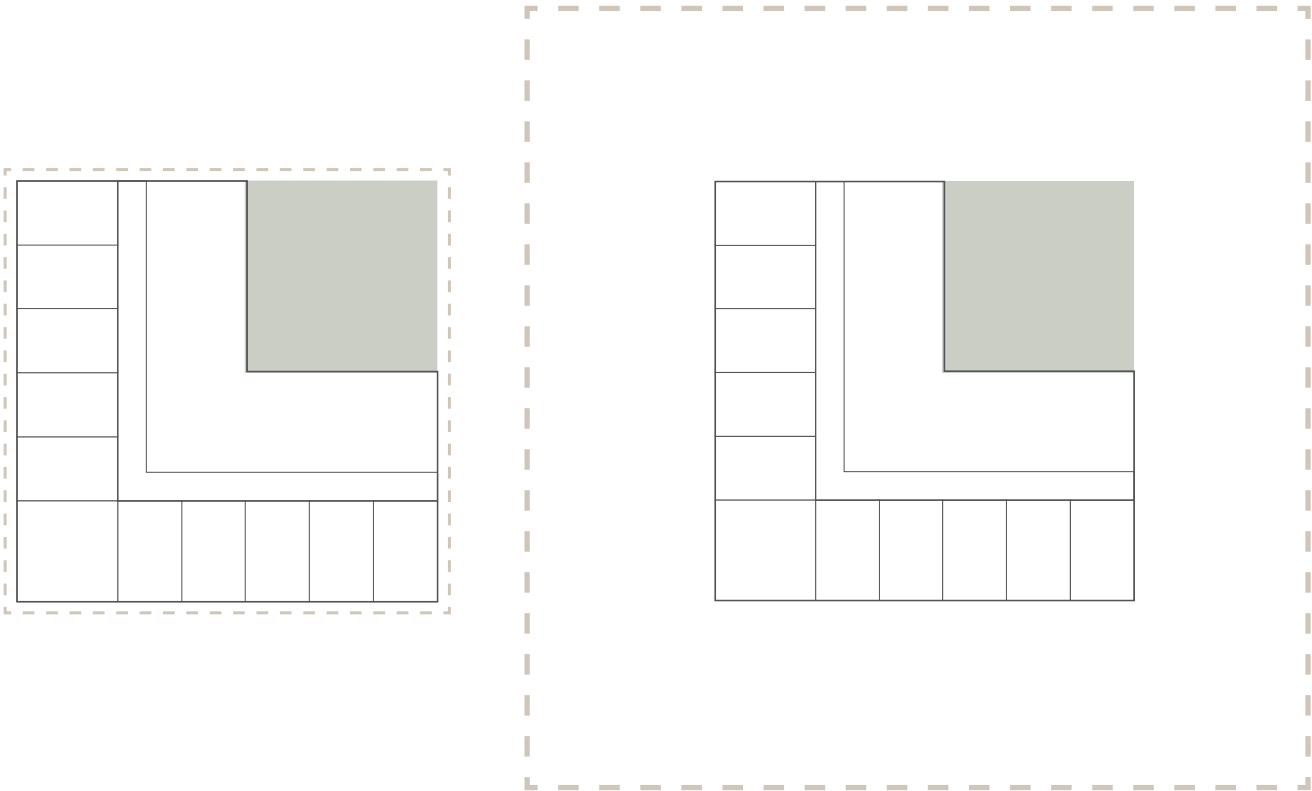
A flexible interior adaptable
to the changing needs of the
society

Tarwewijk

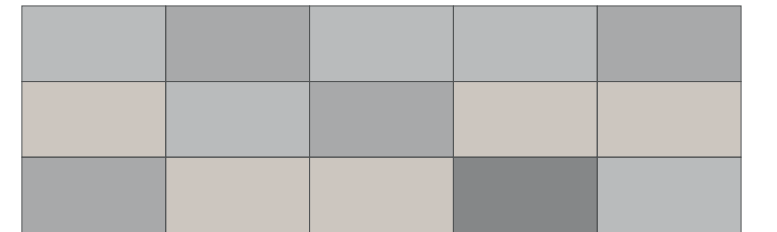
Multicultural backgrounds | Stimulating social interaction | Accessibility

Position

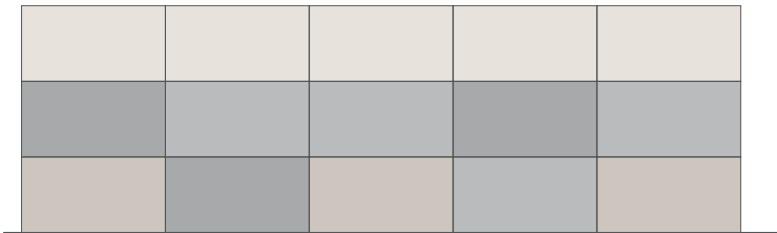
Degree of freedom for people with dementia



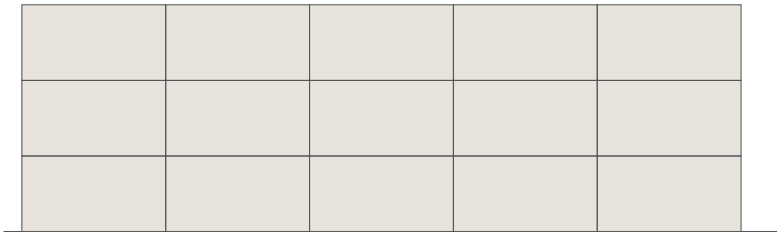
People without dementia



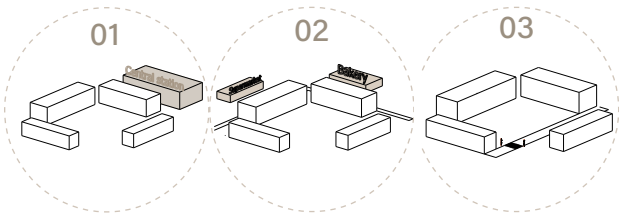
Placing people with and without dementia together to prevent segregation



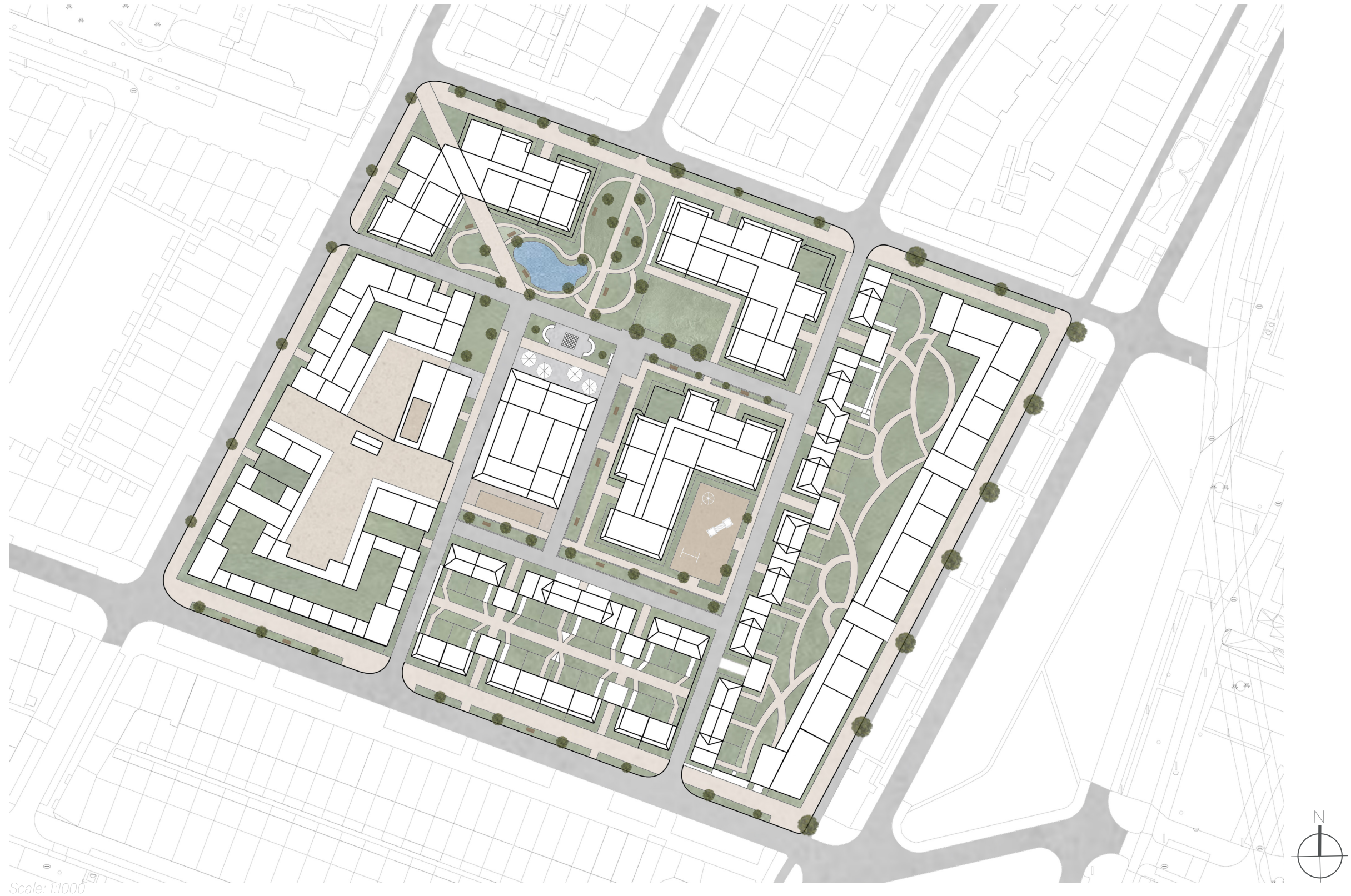
People with dementia



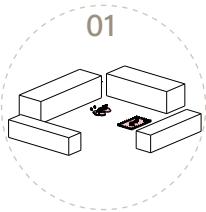
Concluding map projectlocation



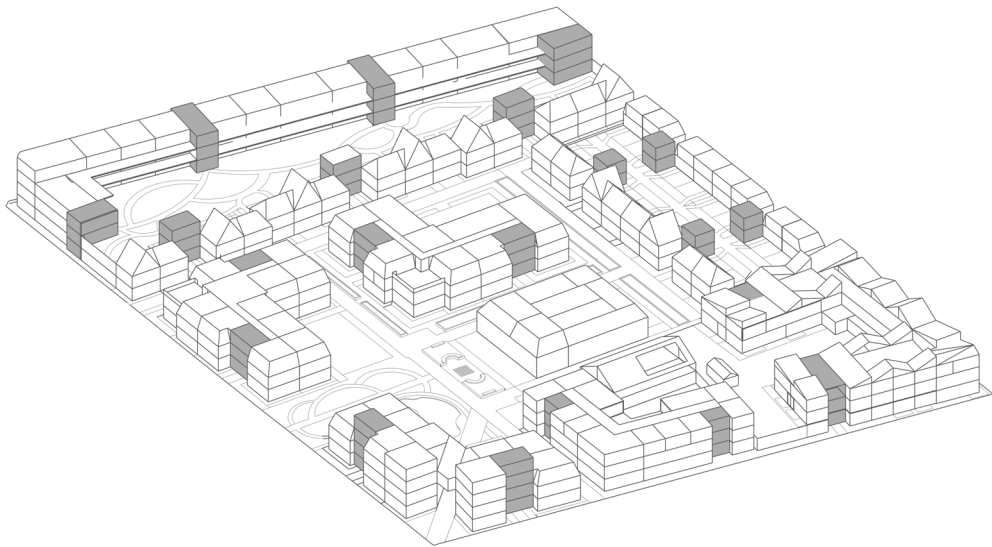
Masterplan



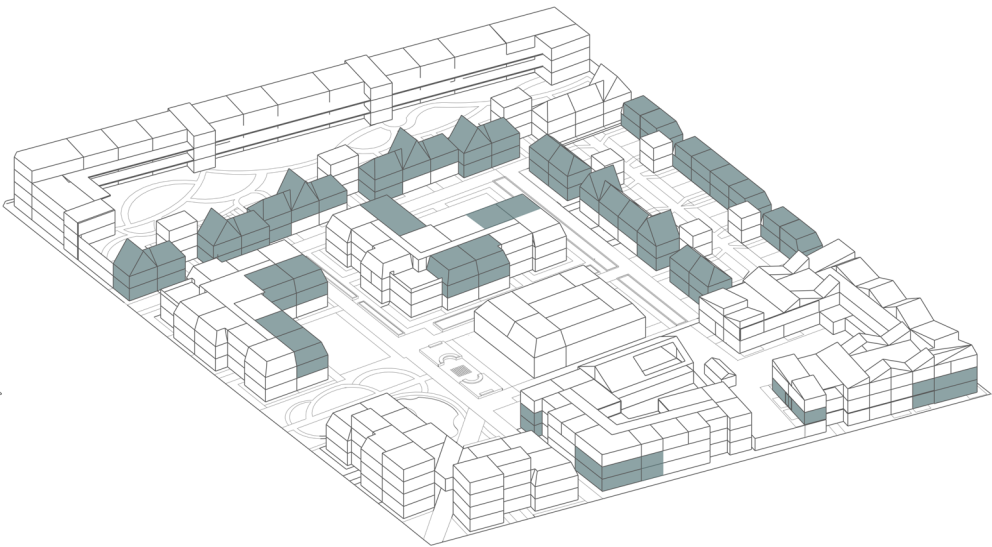
Typologies



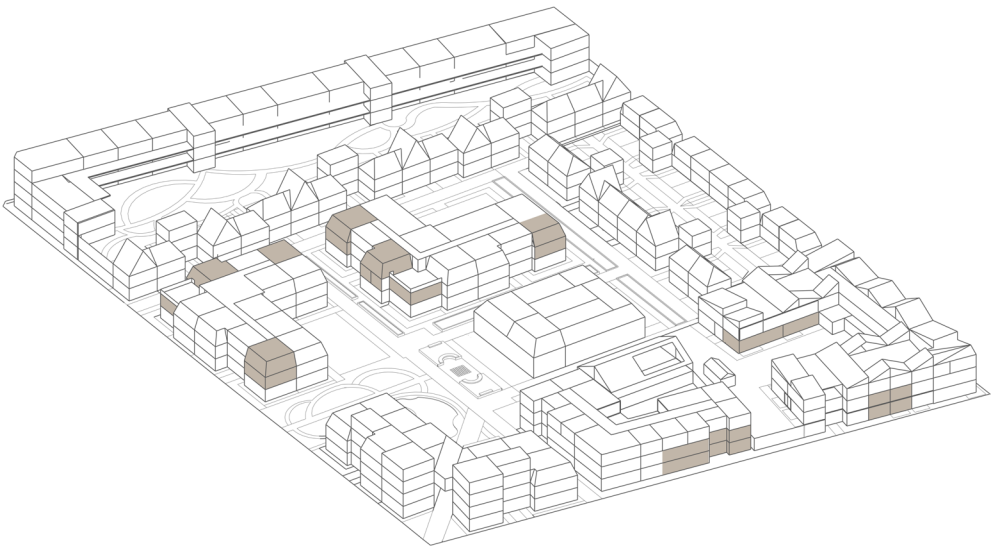
Staircases



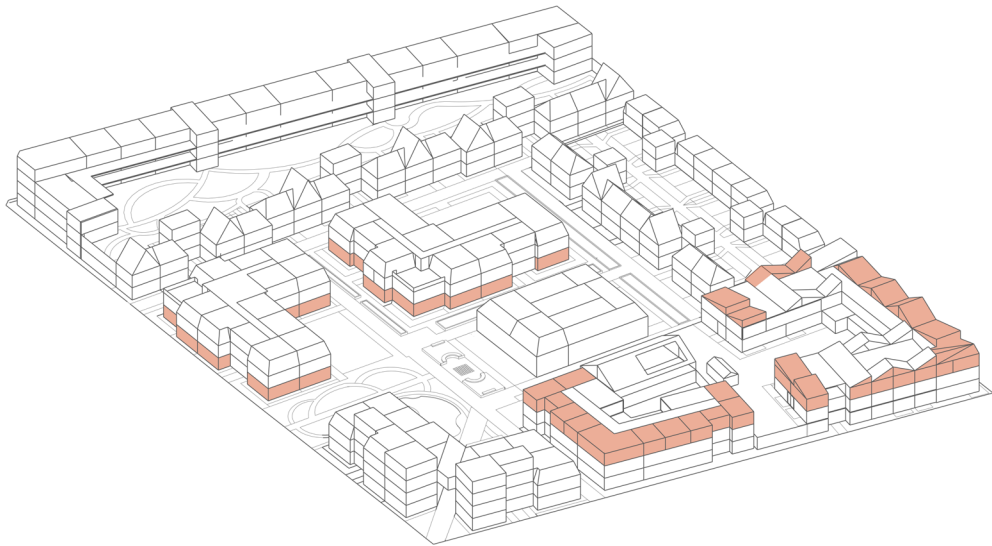
Kangaroo housing



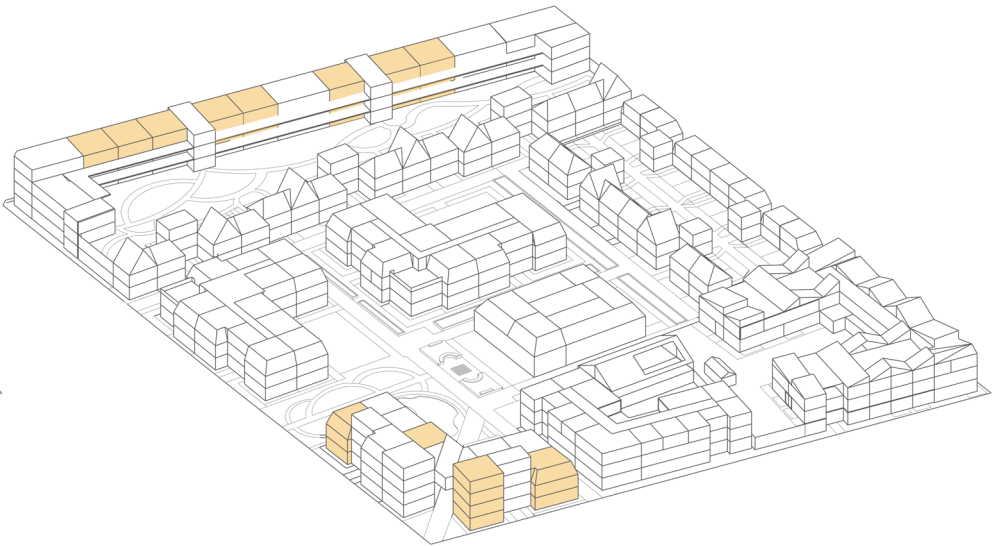
Assisted living apartments



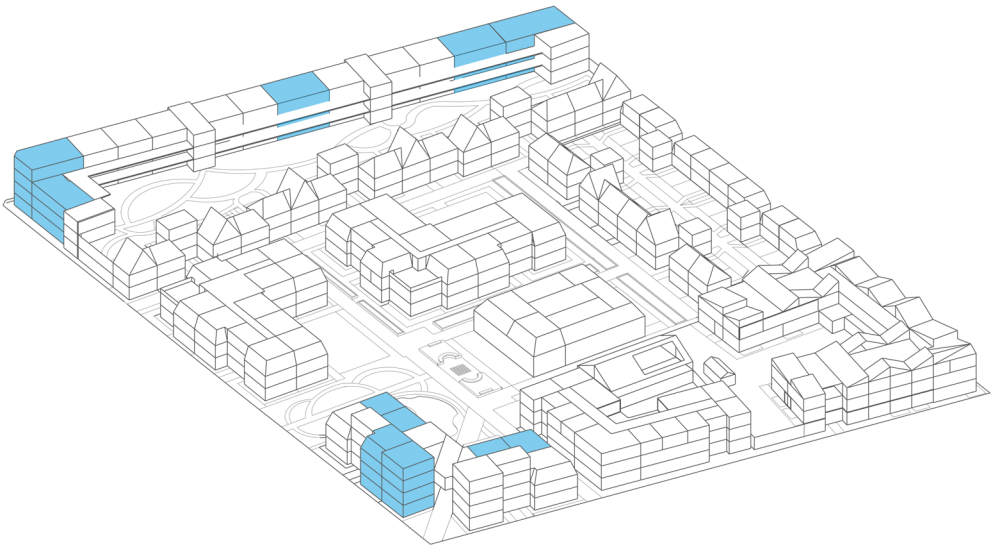
24-hour dementia care units and guest houses



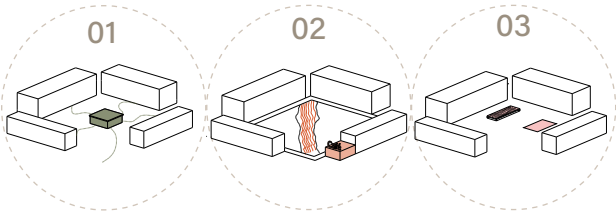
One-bedroom apartments



Family apartments



Functions and social control



- Vegetable garden
- Chess square
- Terrace + café
- Café + small supermarket
- Petanque
- Playground



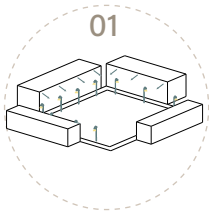
Scale: 1:1000

Social control



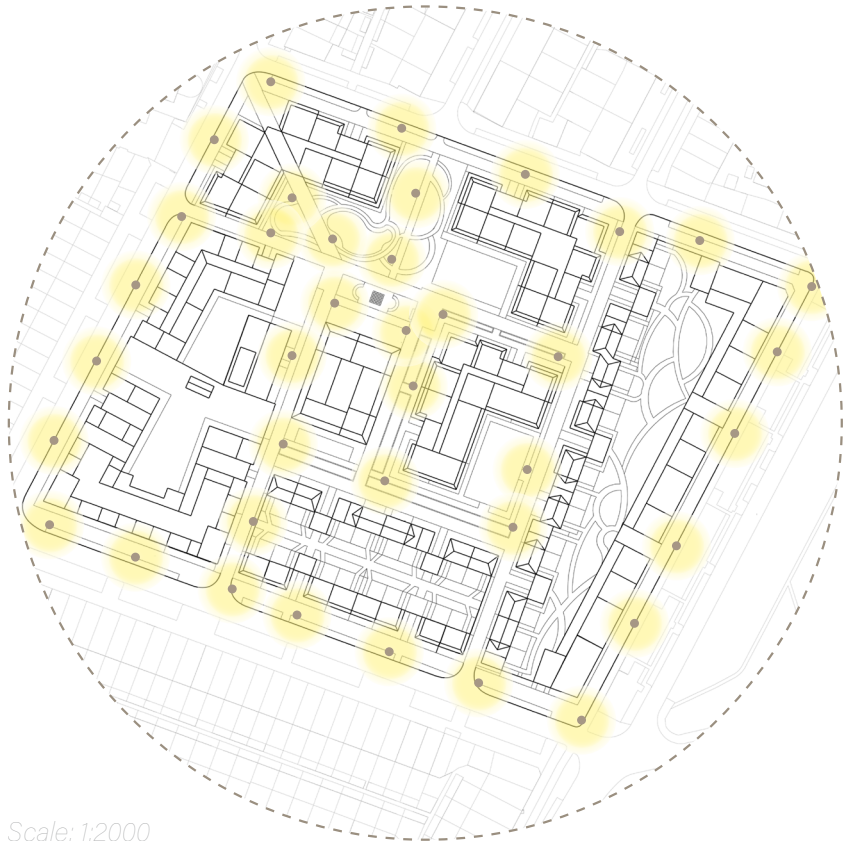
Scale: 1:2000

Lighting plan

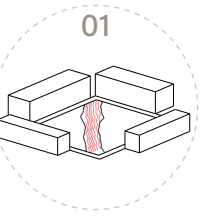


Big streetlights

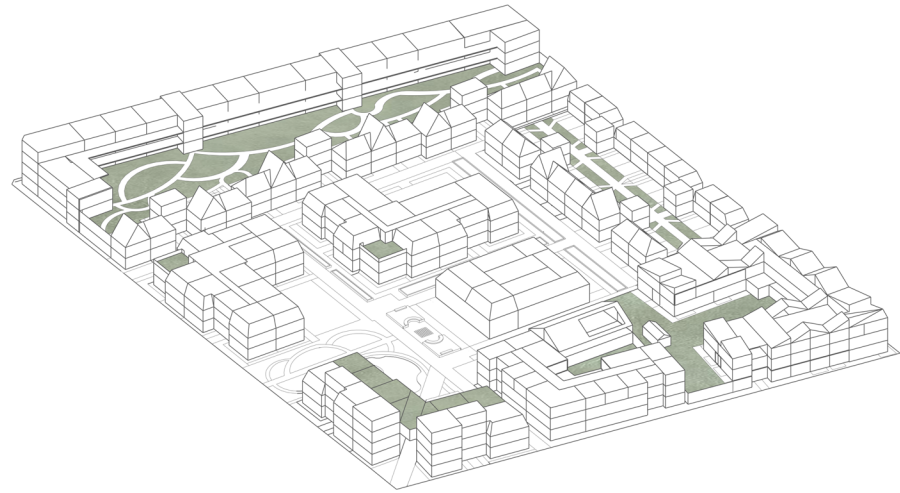
Small streetlights



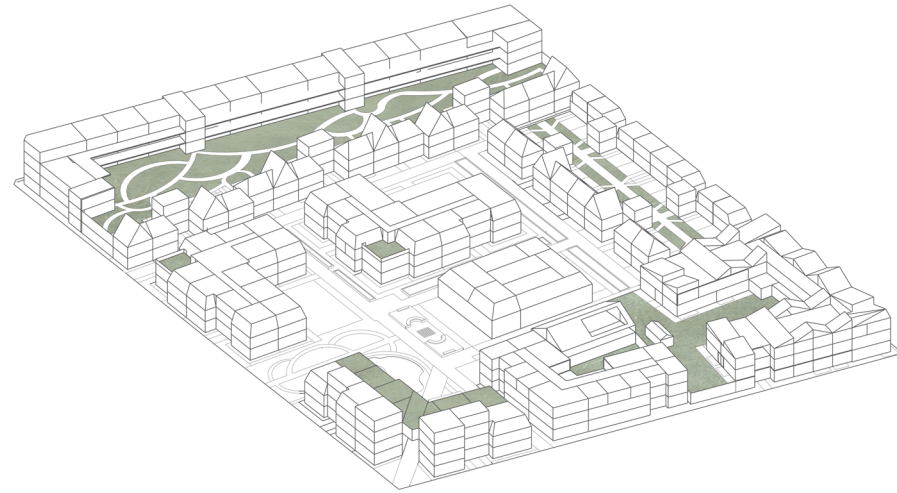
Urban climate adaption



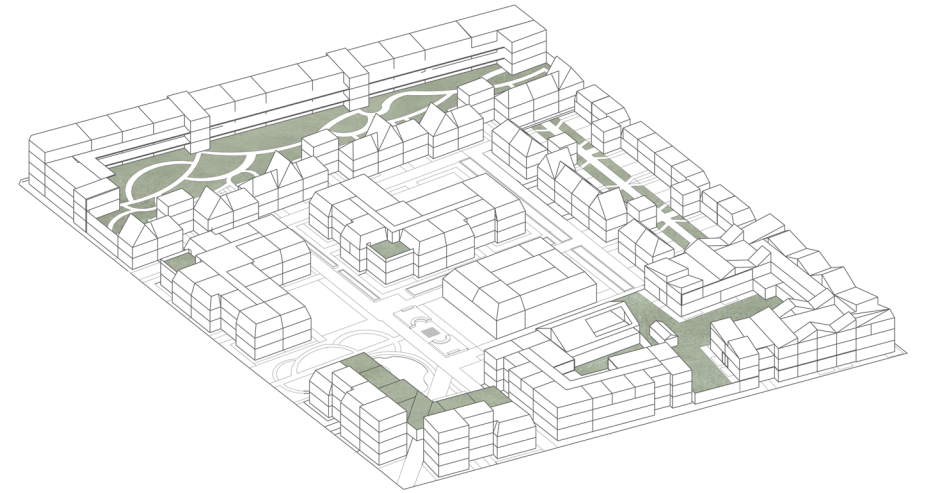
Communal greenery



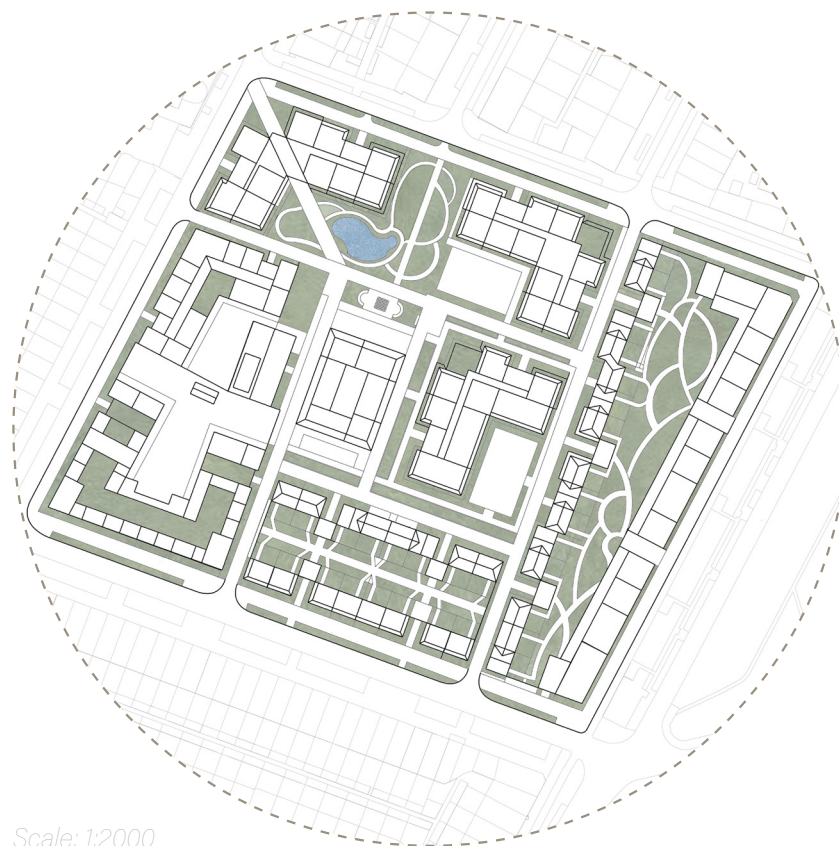
Private greenery



Public greenery

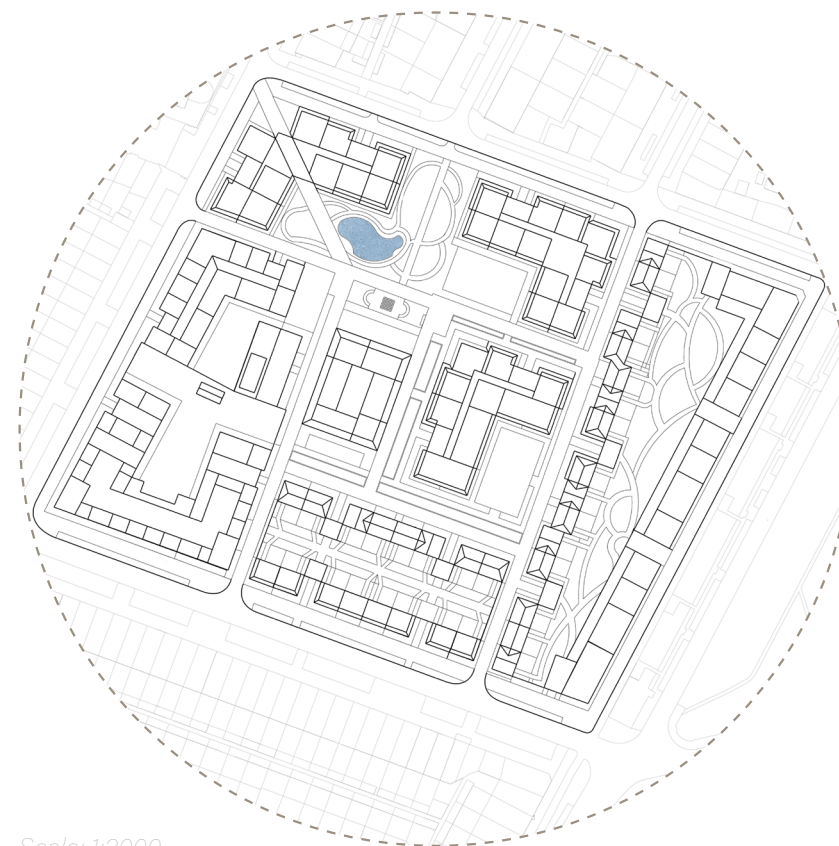


Urban heat island effect



Scale: 1:2000

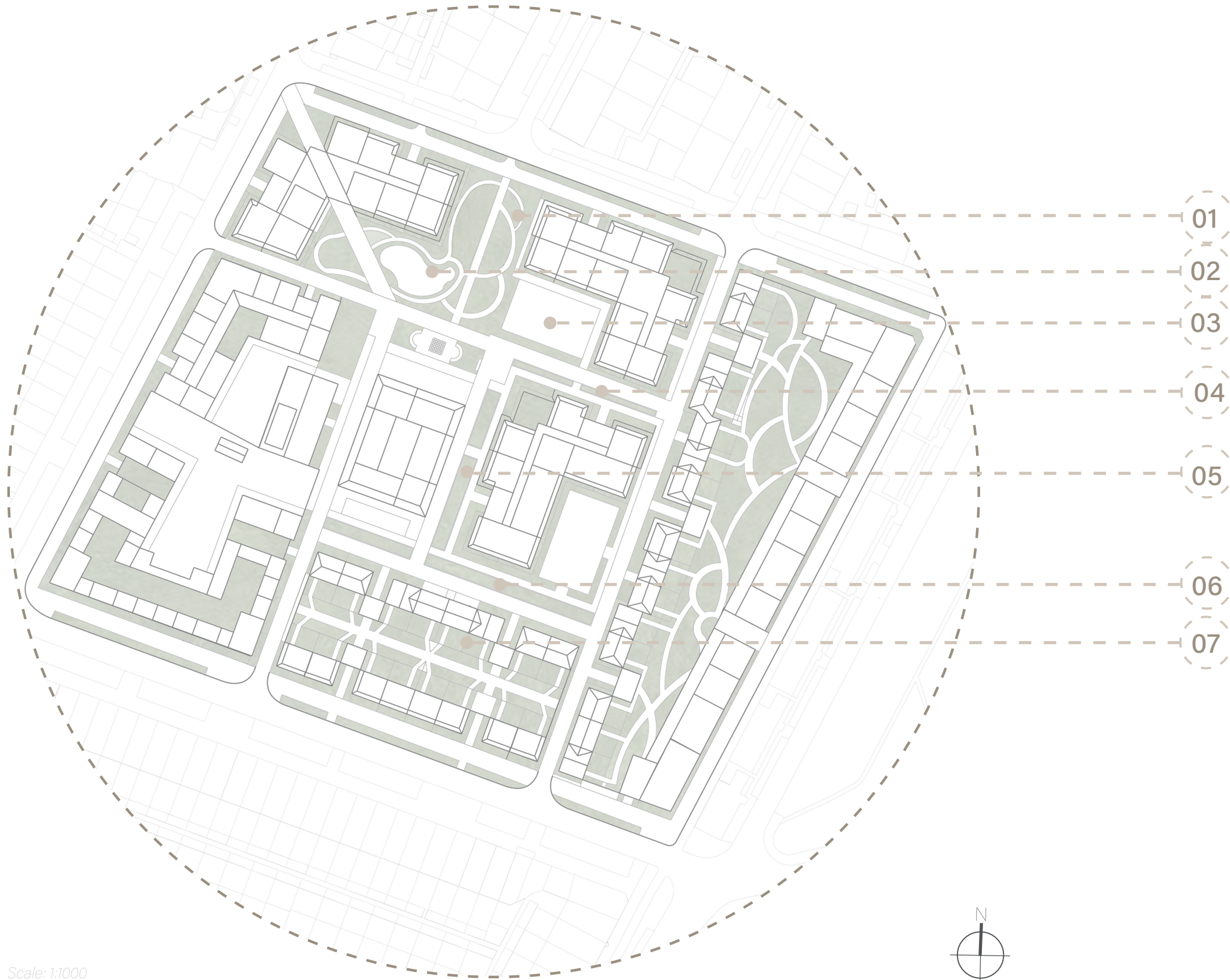
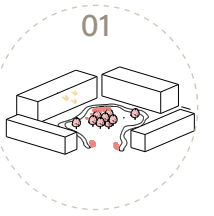
Water retention



Scale: 1:2000



Biodiversity

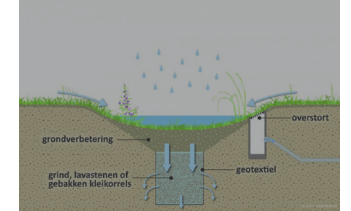


Scale: 1:1000

01



02



03



04



05



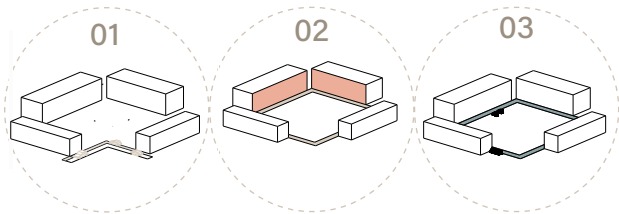
06



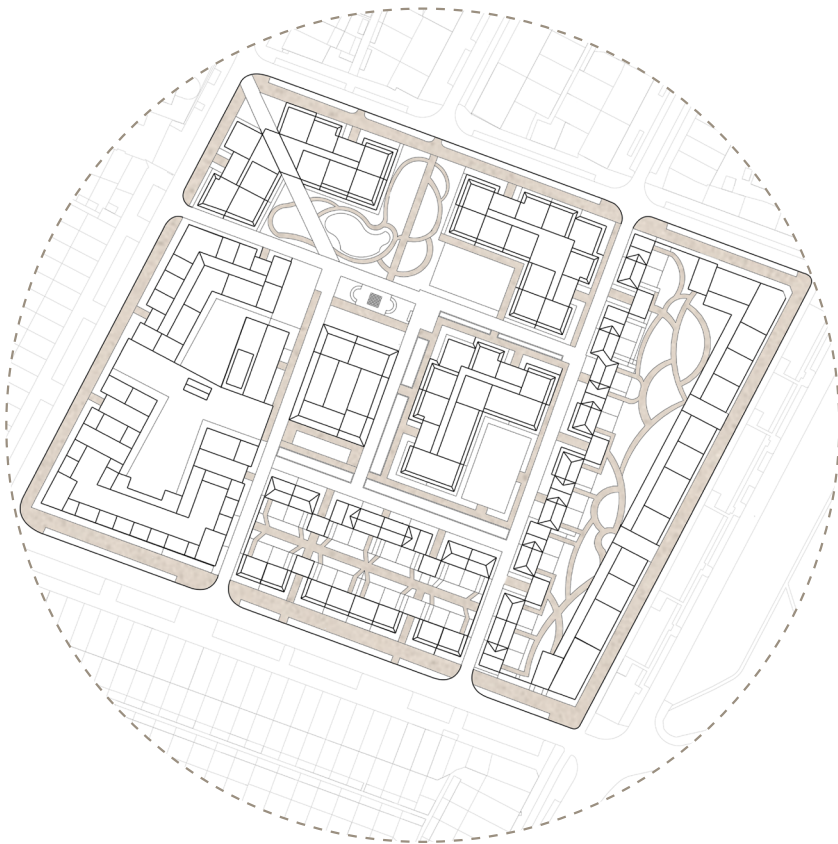
07



Infrastructure

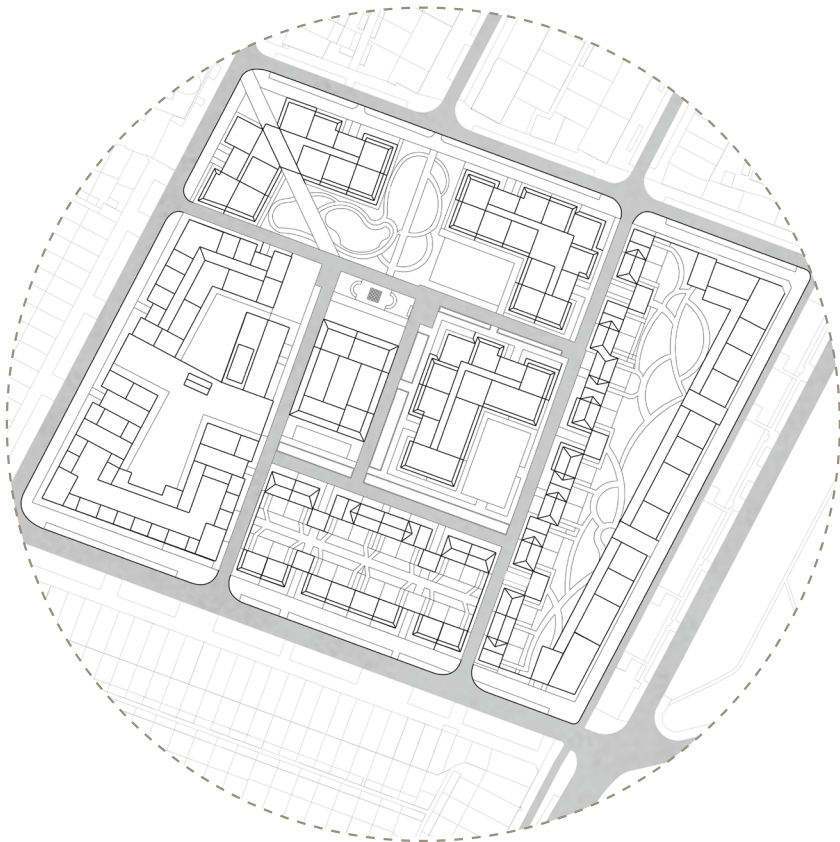


Pavements



Scale: 1:2000

Bicycle lanes



Scale: 1:2000

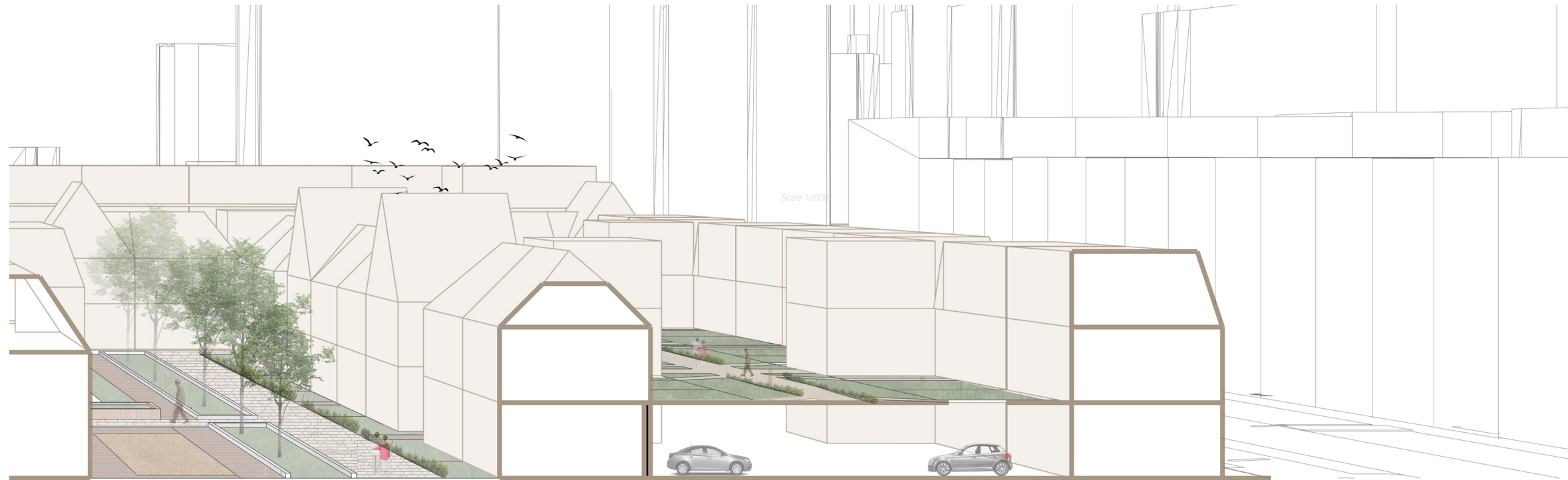
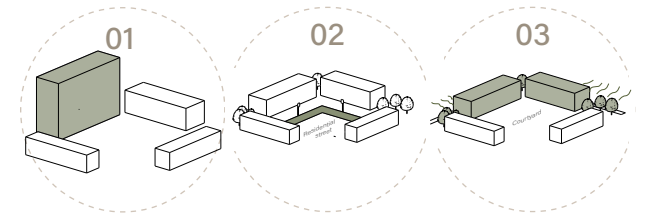
Emergency routes



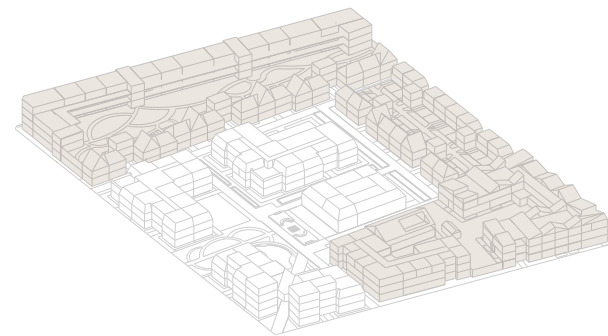
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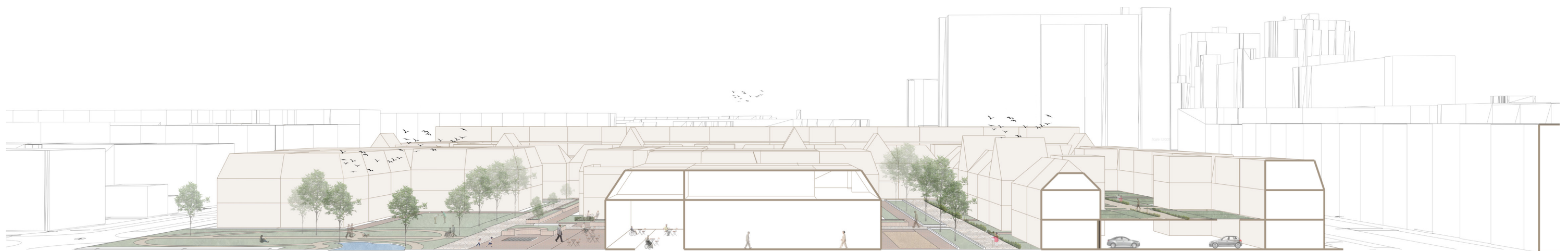
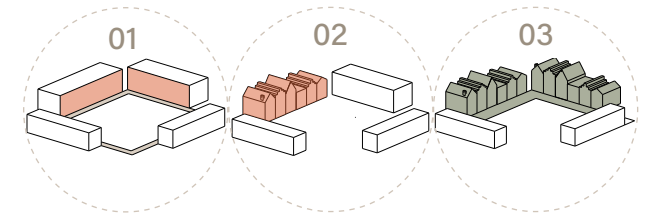
Parking



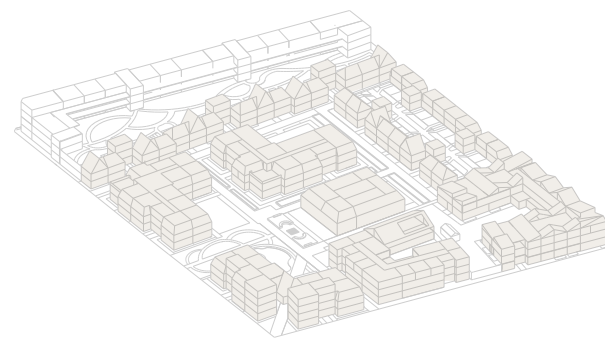
Scale: 1:2000



Atmosphere neighborhood level



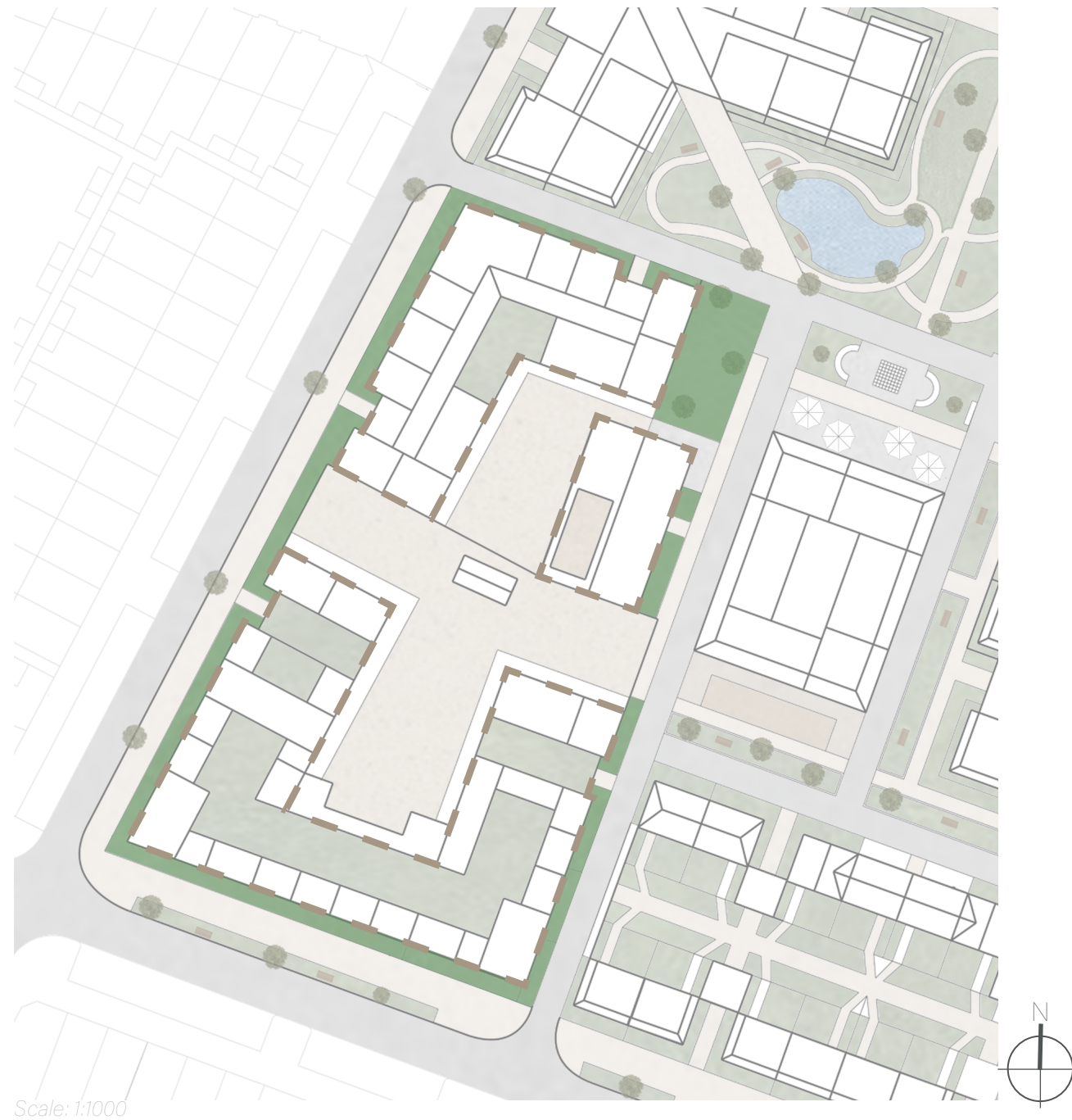
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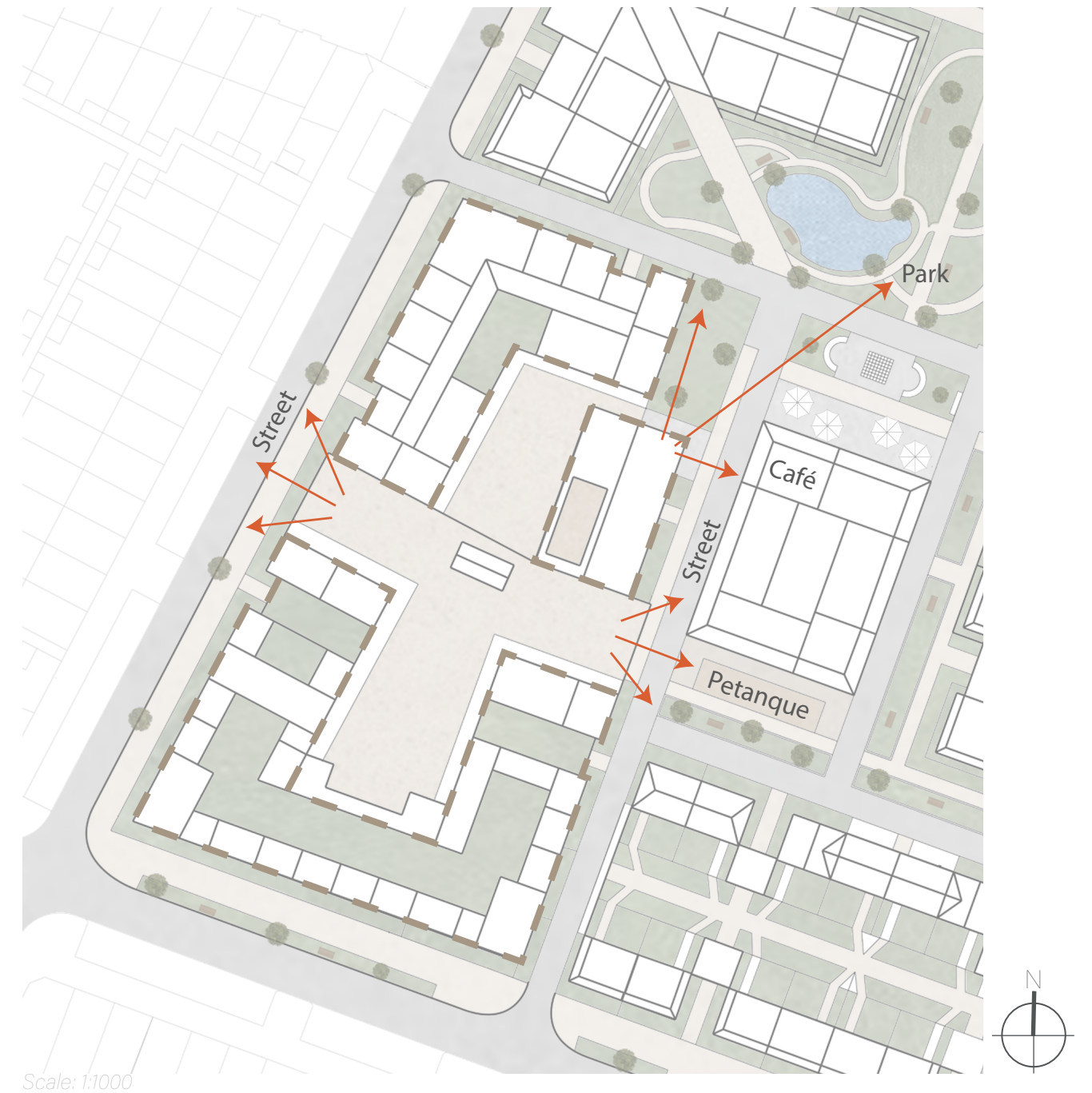
Care building as part of the neighborhood

Integration of the building in the neighborhood

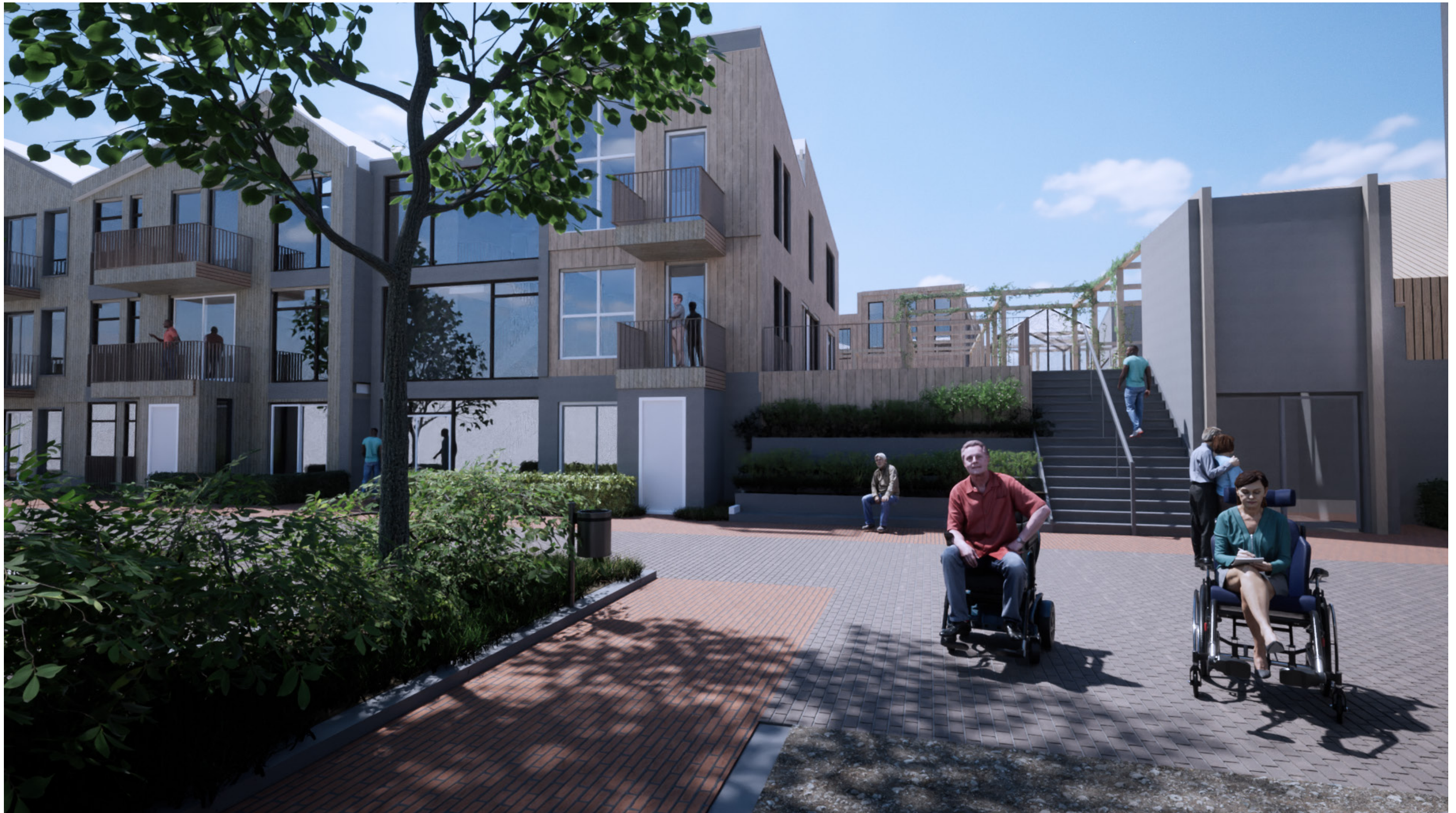
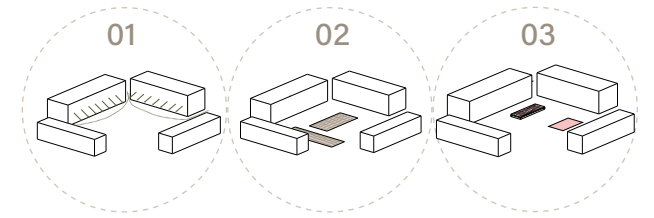
Private front gardens



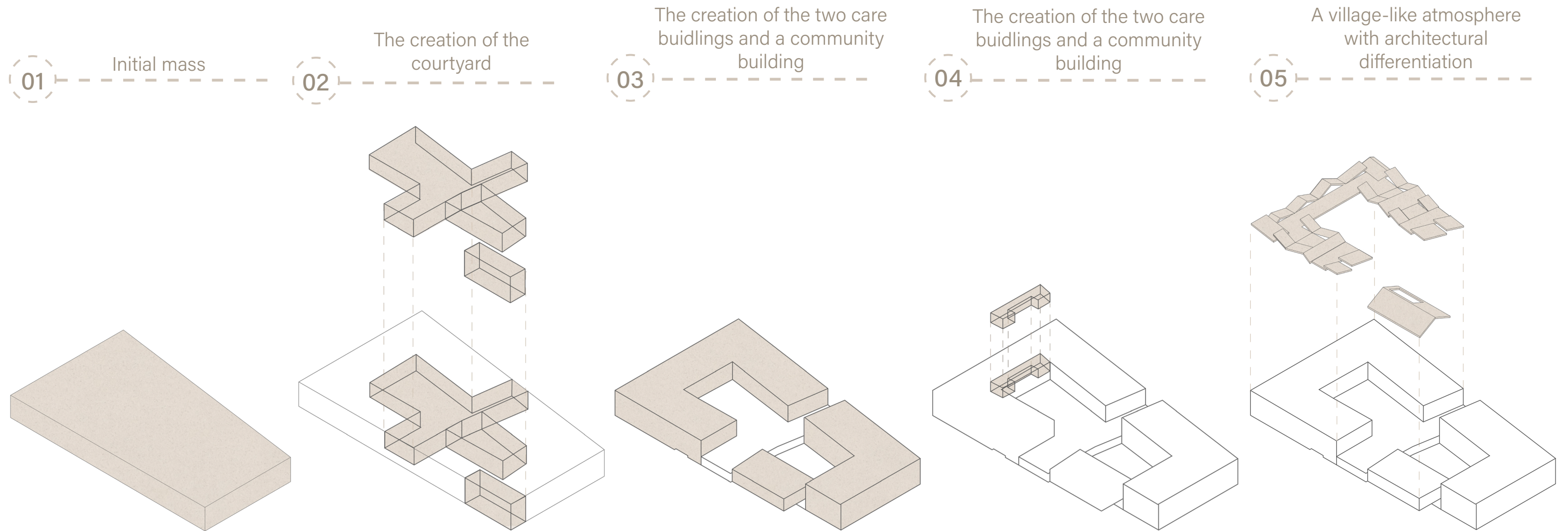
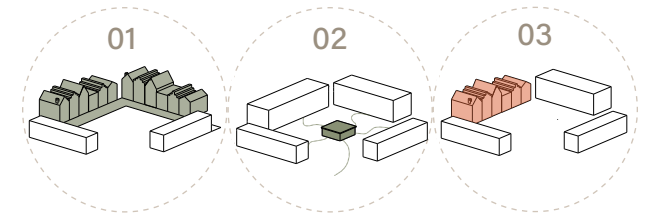
Sightlines to the surroundings



Connection with the neighborhood

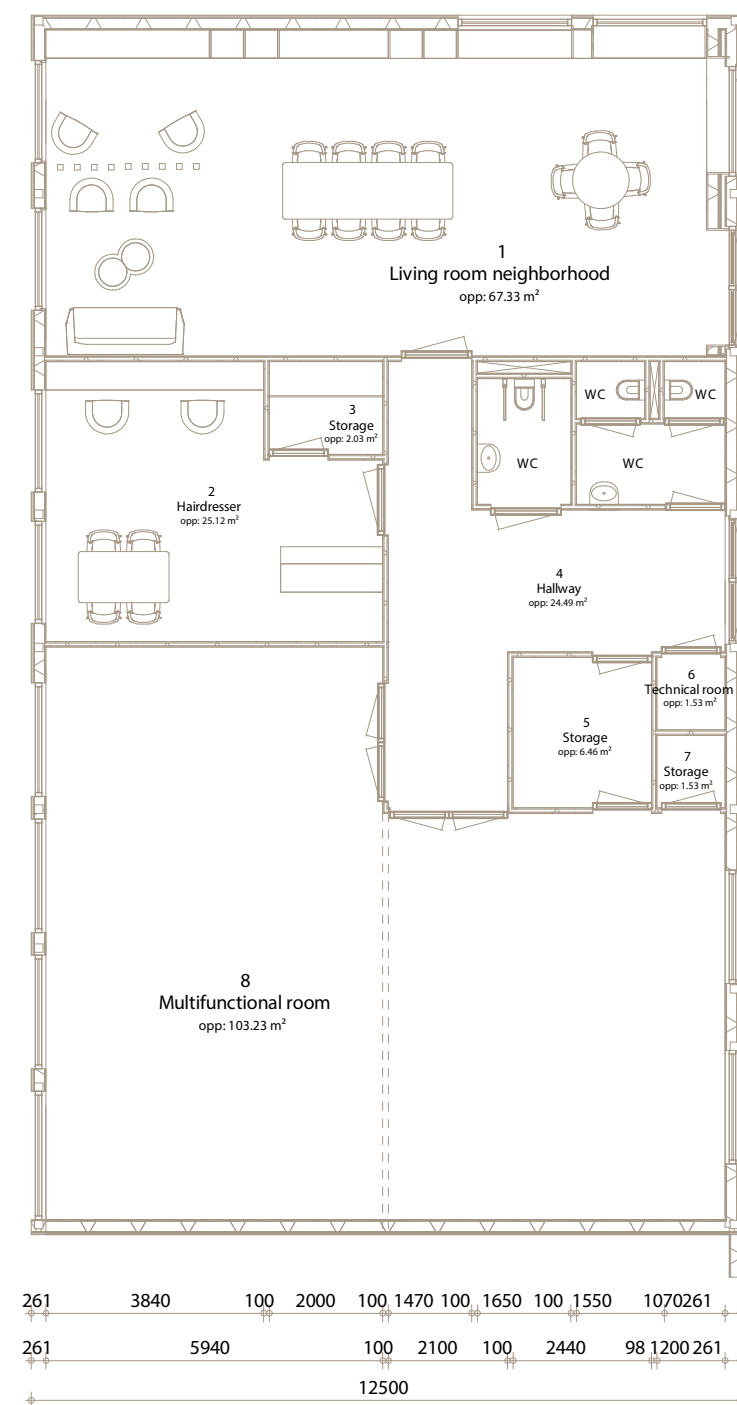
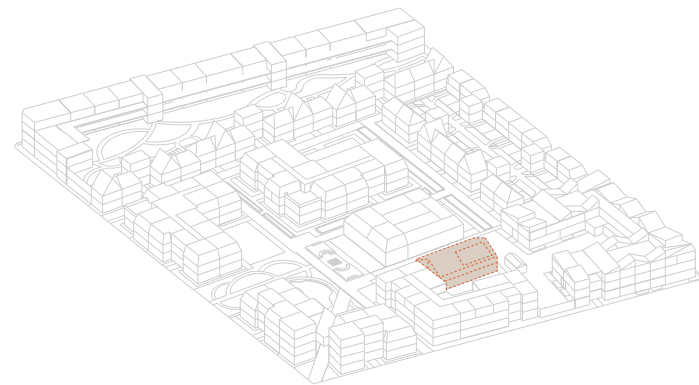
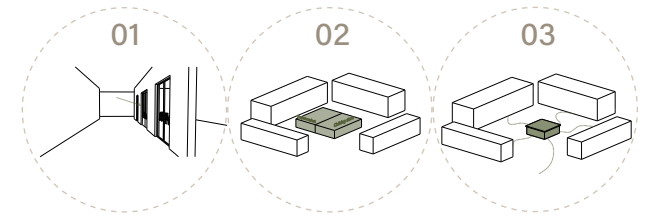


Origin of the masses



A neighborhood community center to
strengthen the neighborhood identity

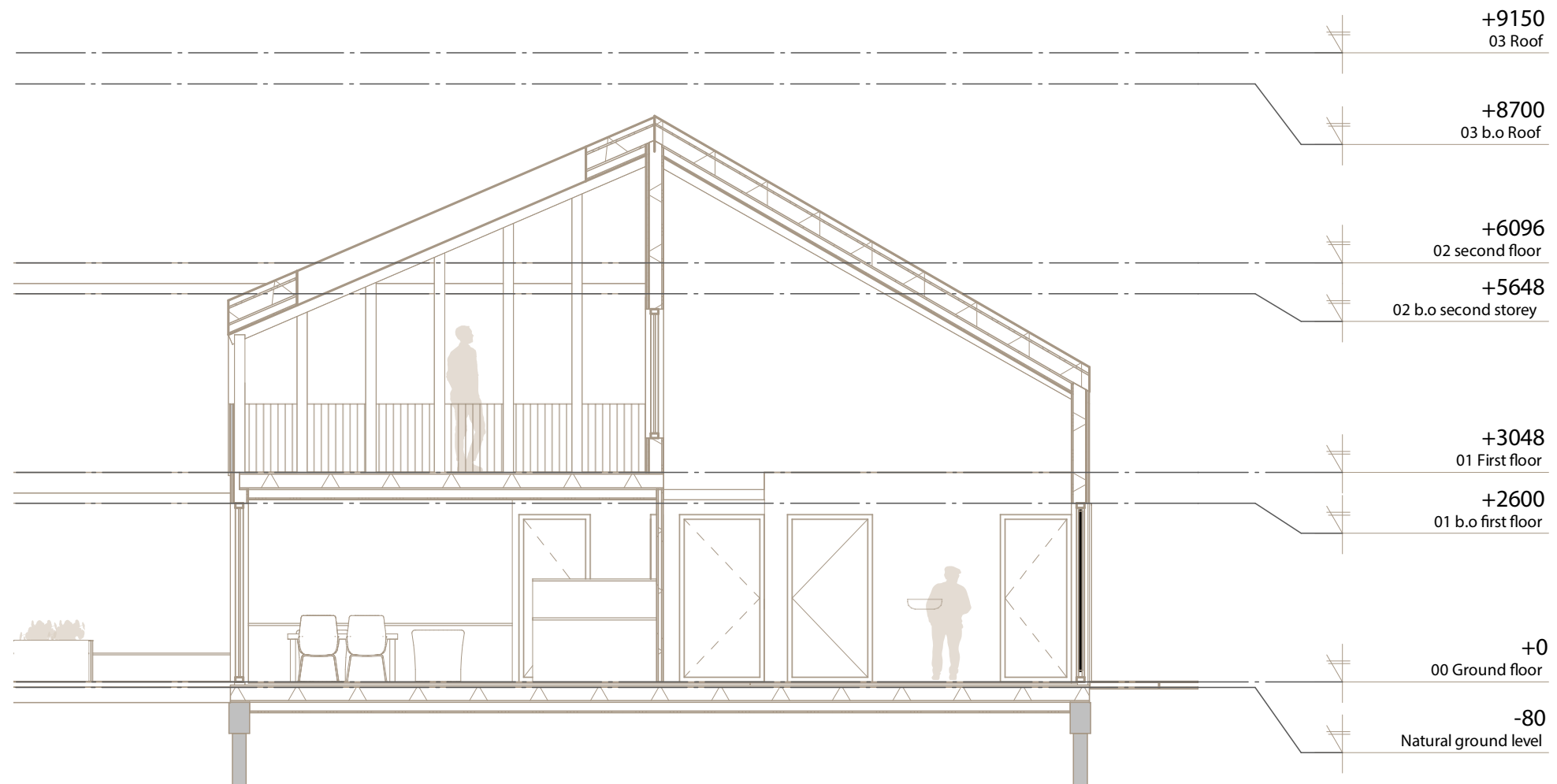
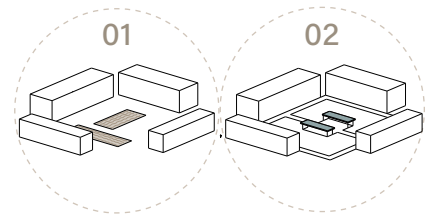
Neighborhood center



Scale: 1:150



Neighborhood center



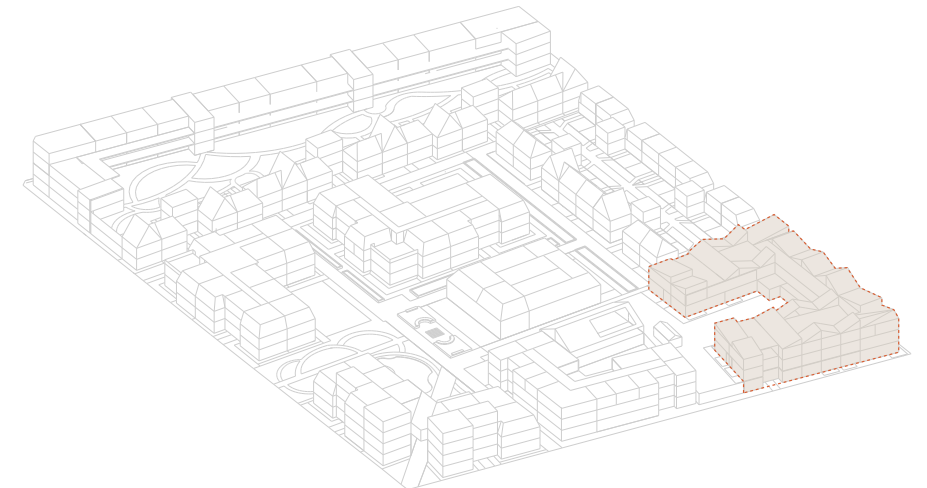
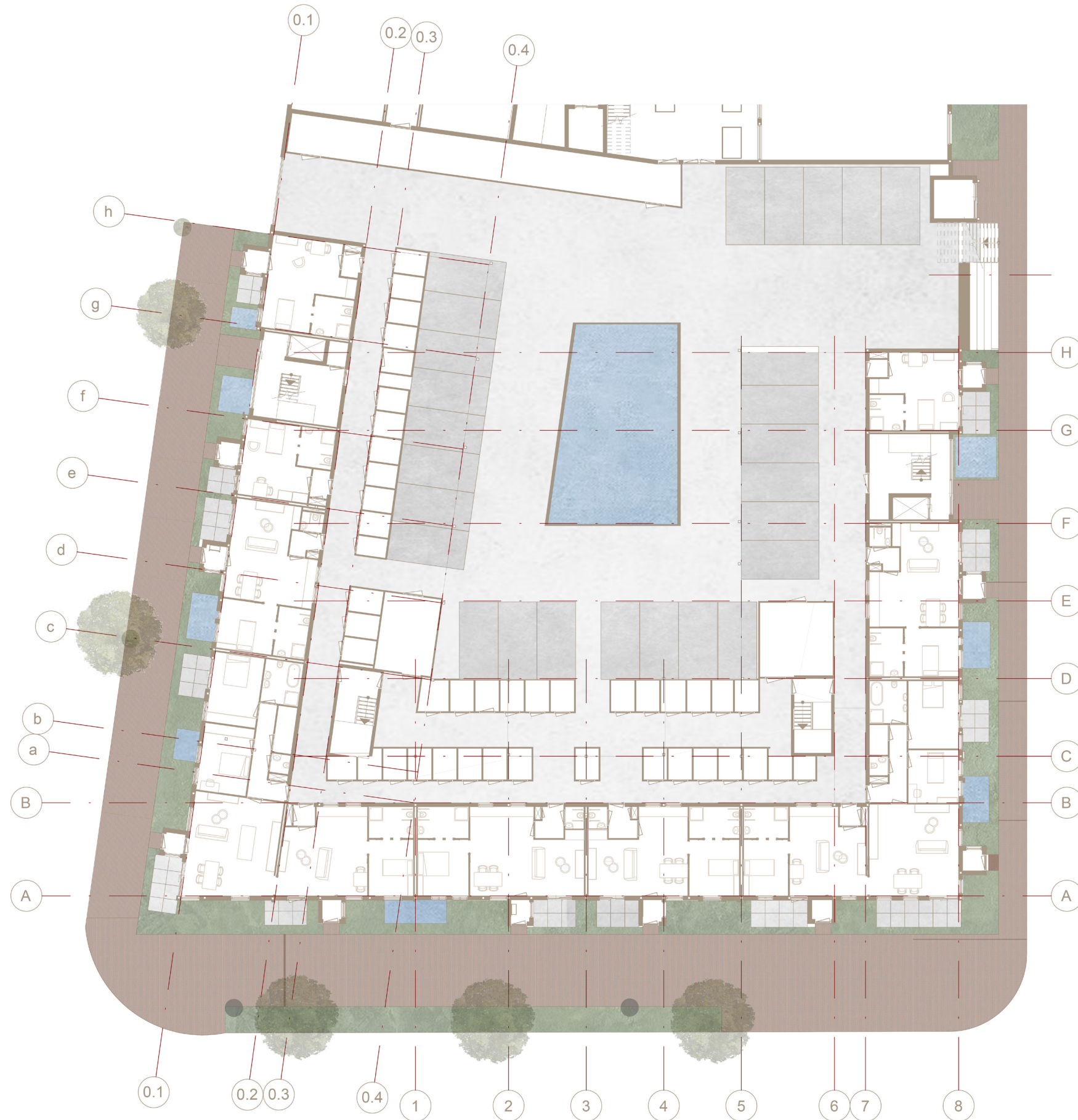
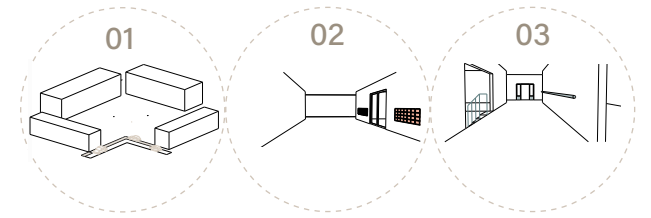
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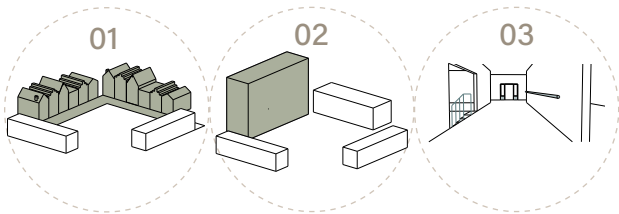
Scale: 1:100

Where care and community meet

Floor plan: ground floor



Facades



Oak



Chestnut



Larch



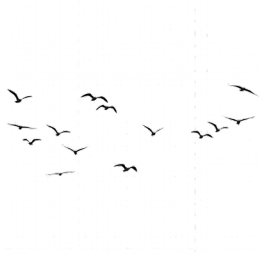
Western red cedar



NABASCO biocomposite



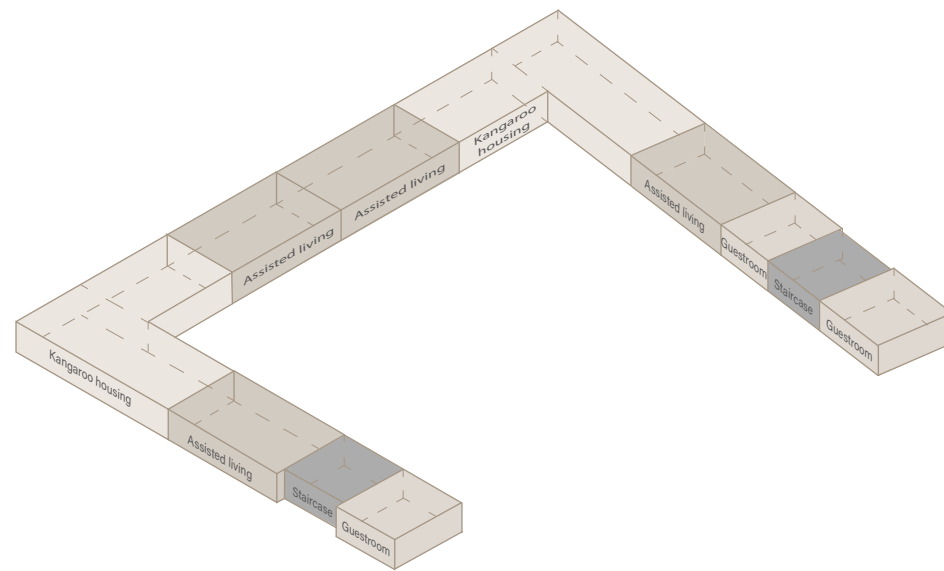
West facade



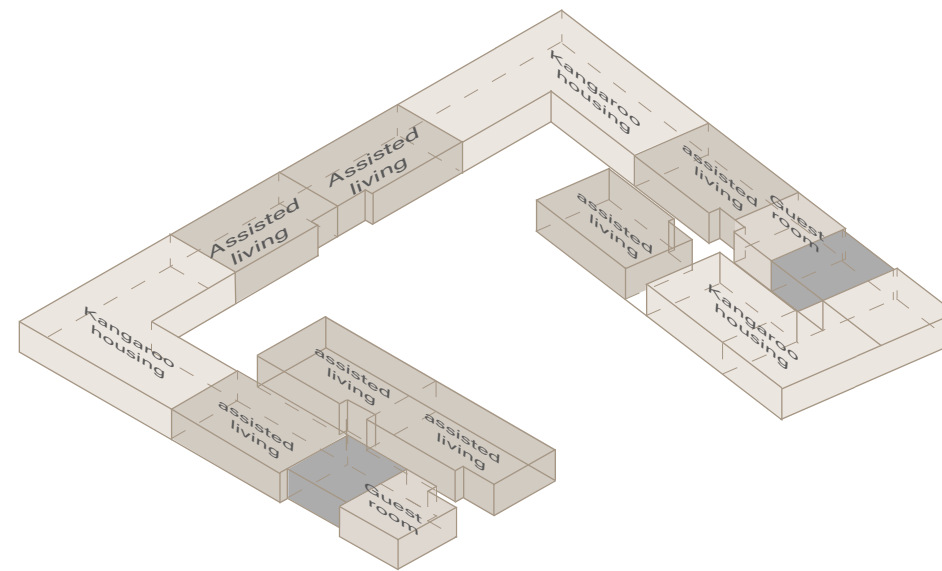
Scale: 1:200

Place of the different typologies

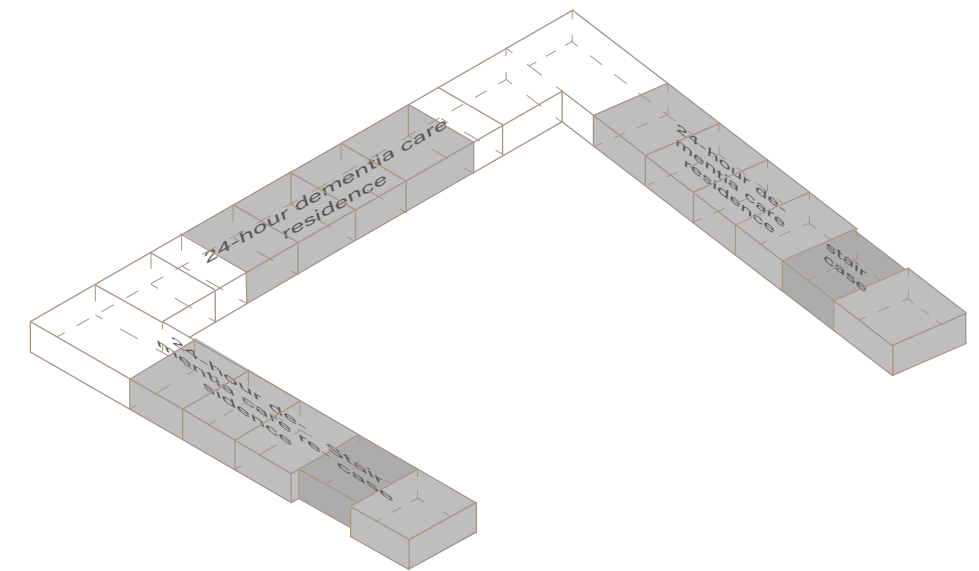
Typologies ground floor

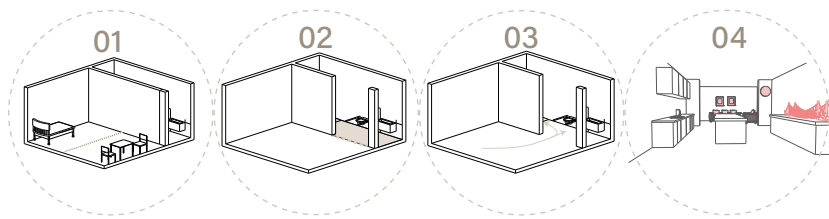


Typologies first floor

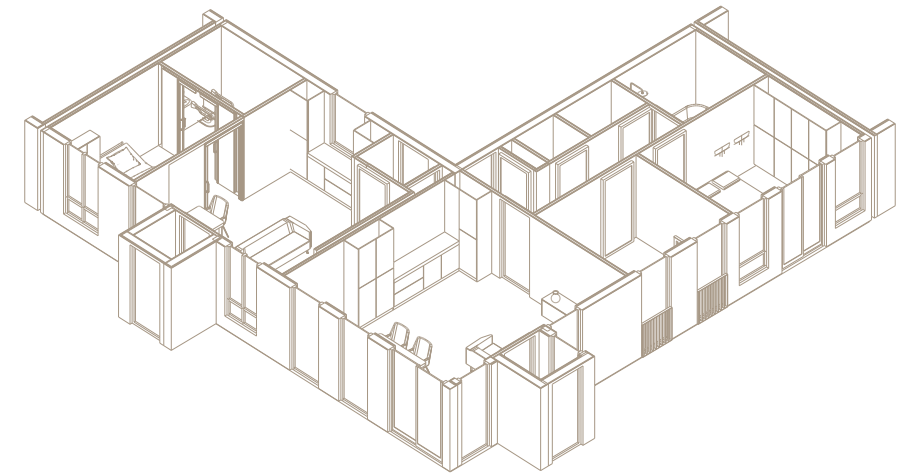
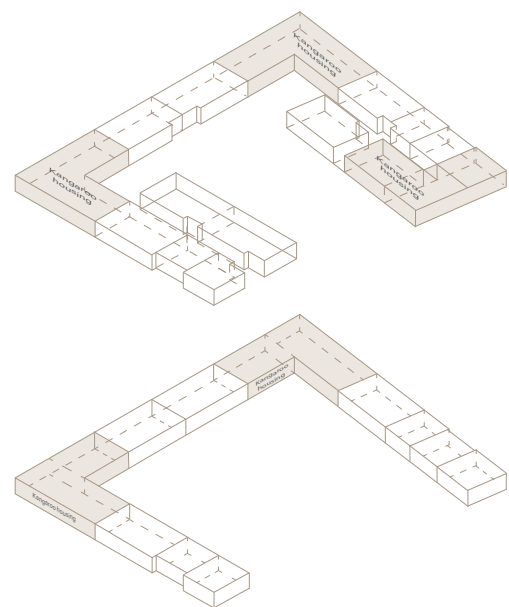
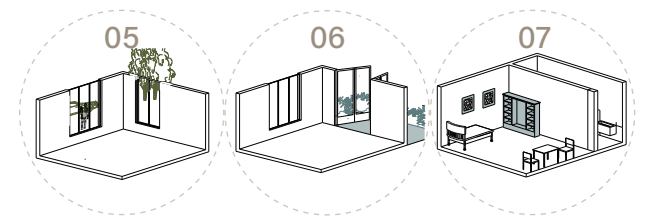


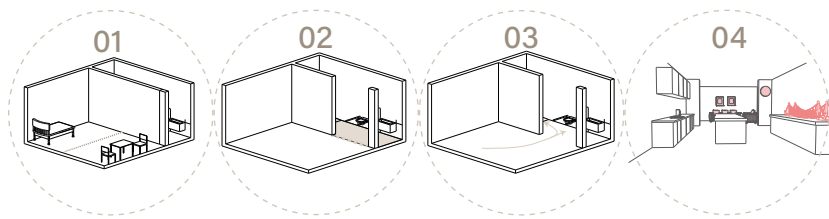
Typologies second floor



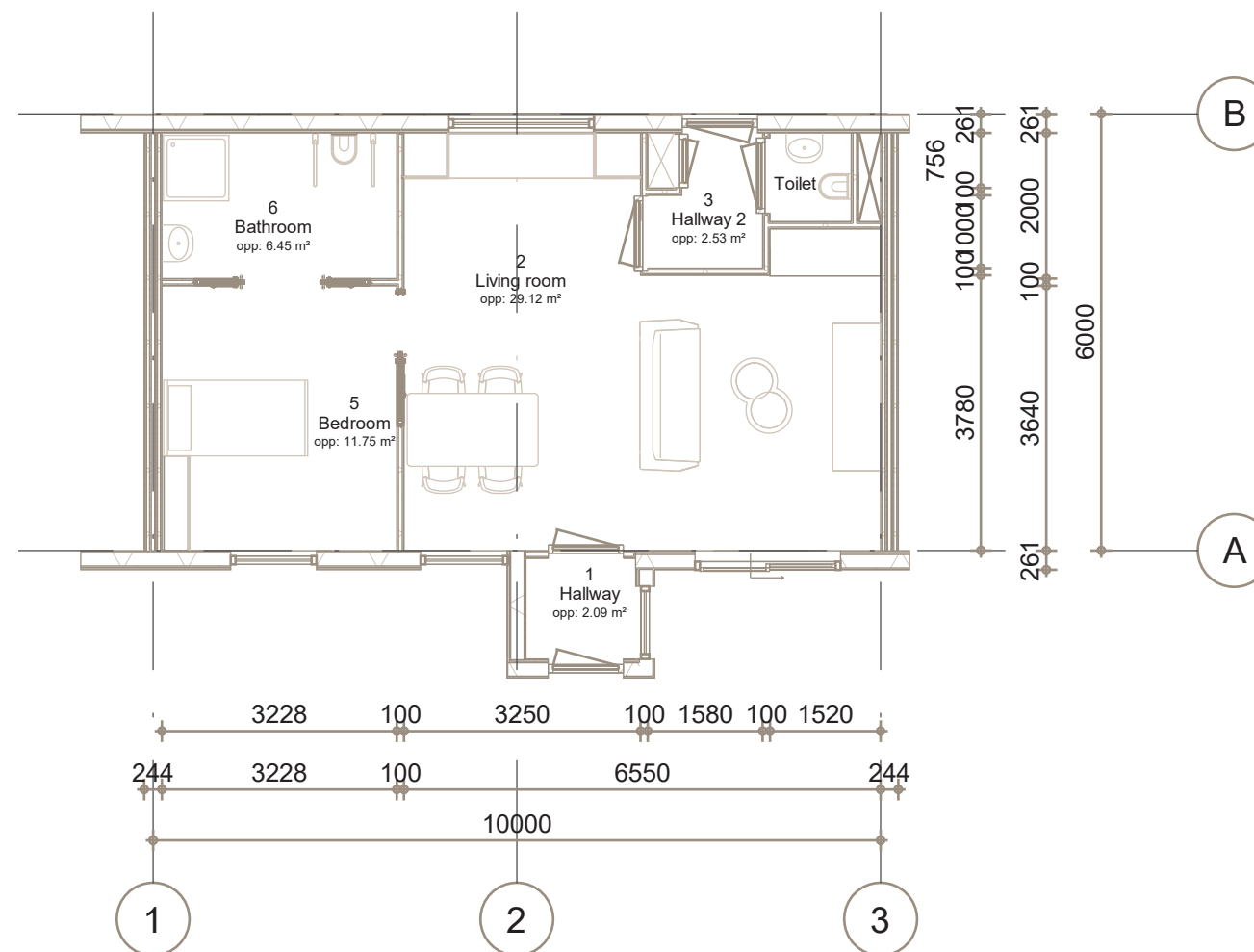
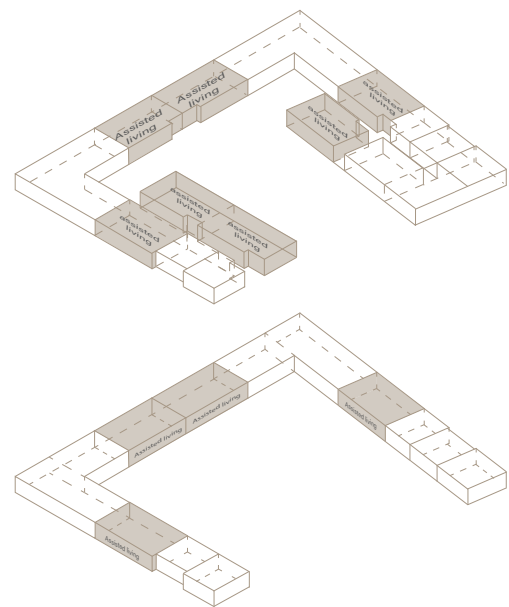
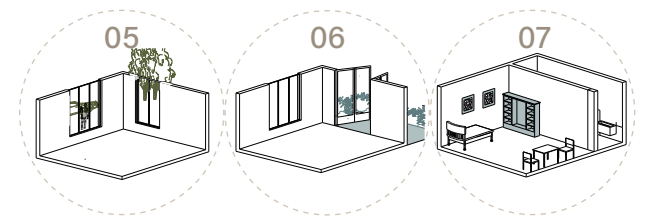


Typologie 1: Kangaroo apartments

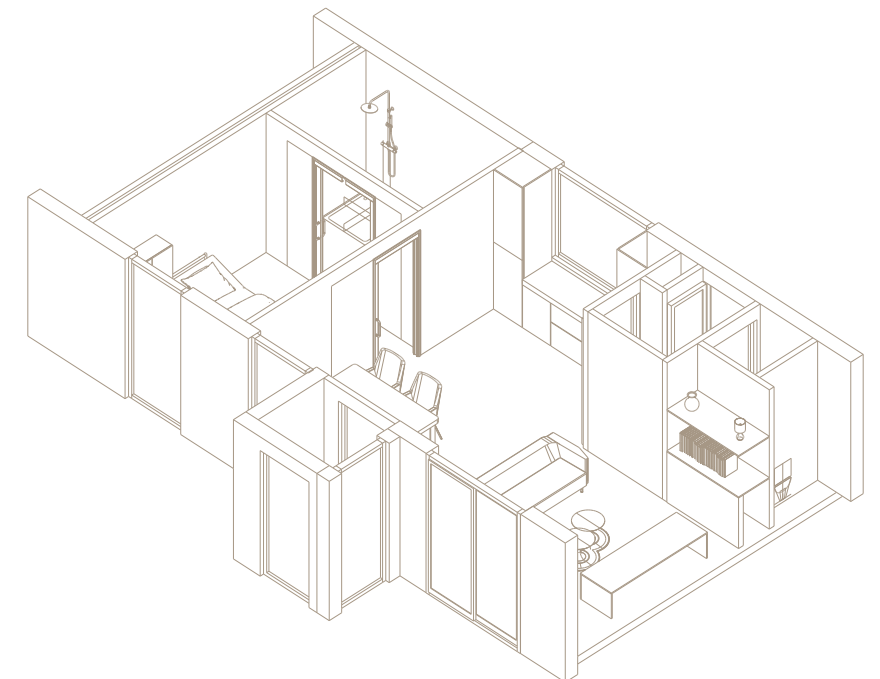


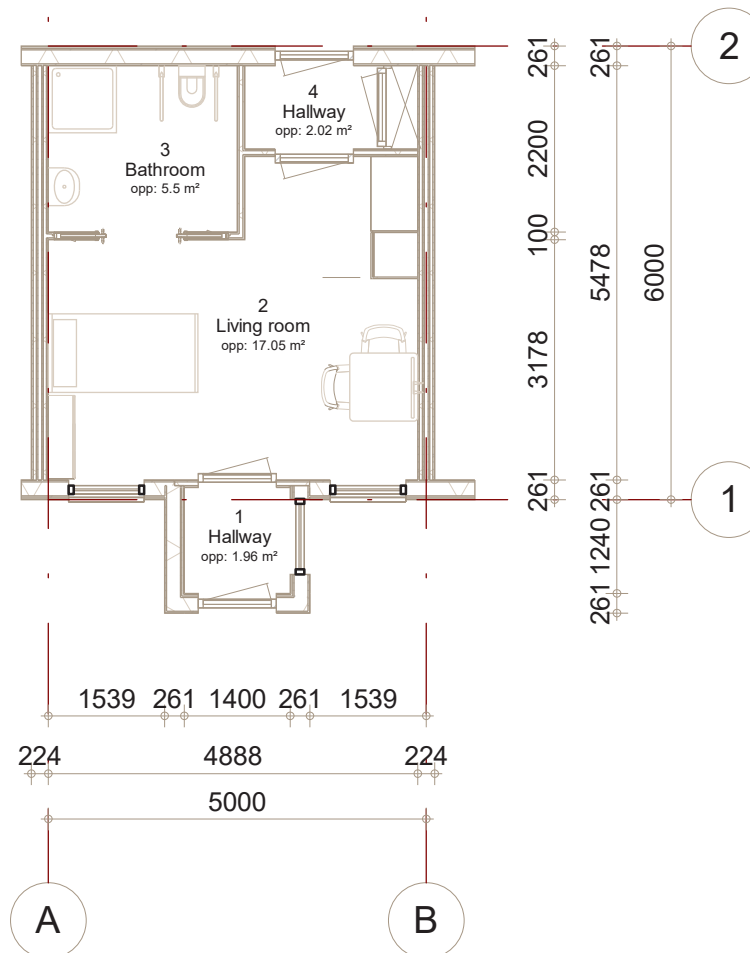
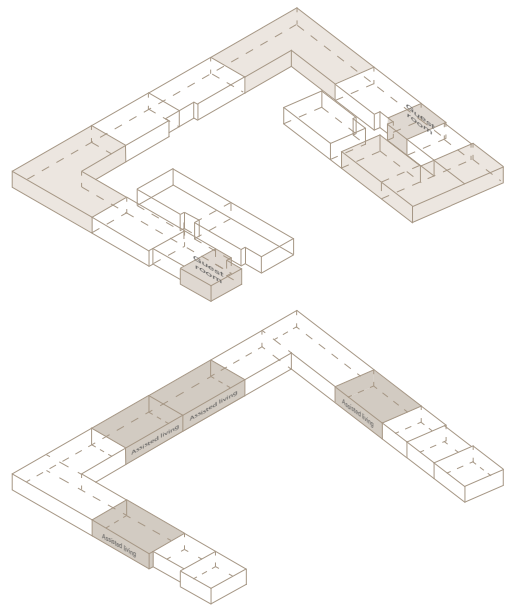


Typologie 2: Assisted living apartments



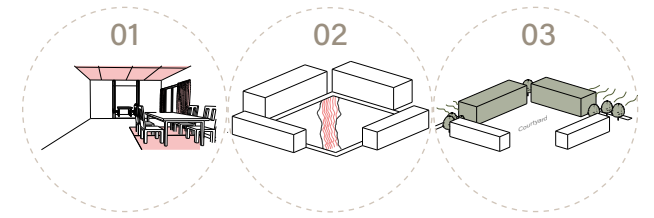
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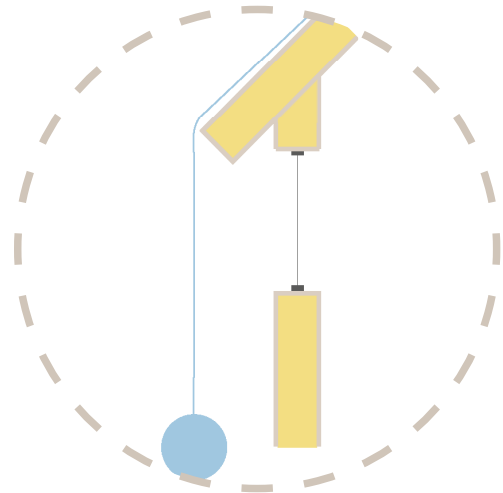


Front gardens as part of the water cycle

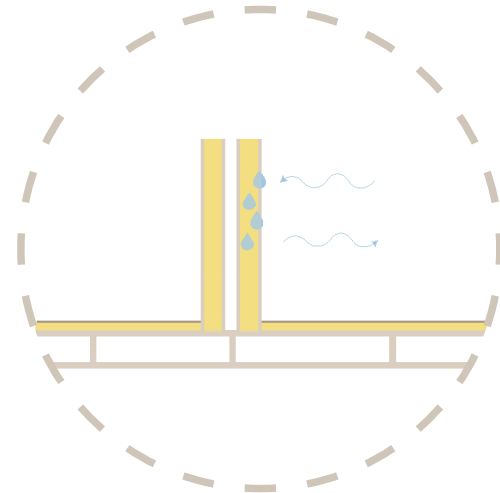
Climate-adaptive design principles



01 Waterstorage



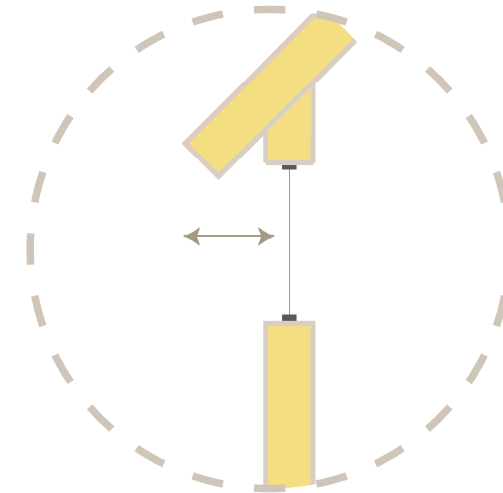
02 Moisture regulating



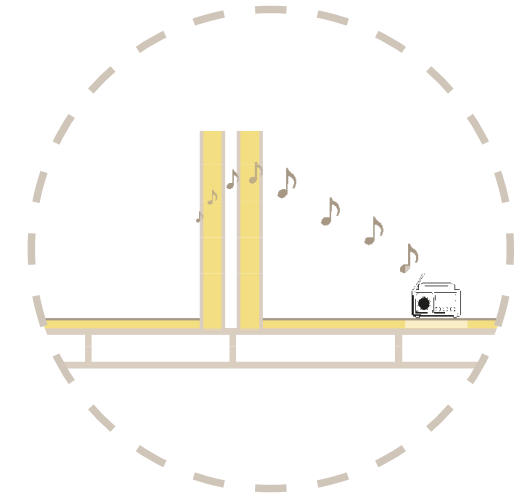
03 Dry connections with an open floor construction



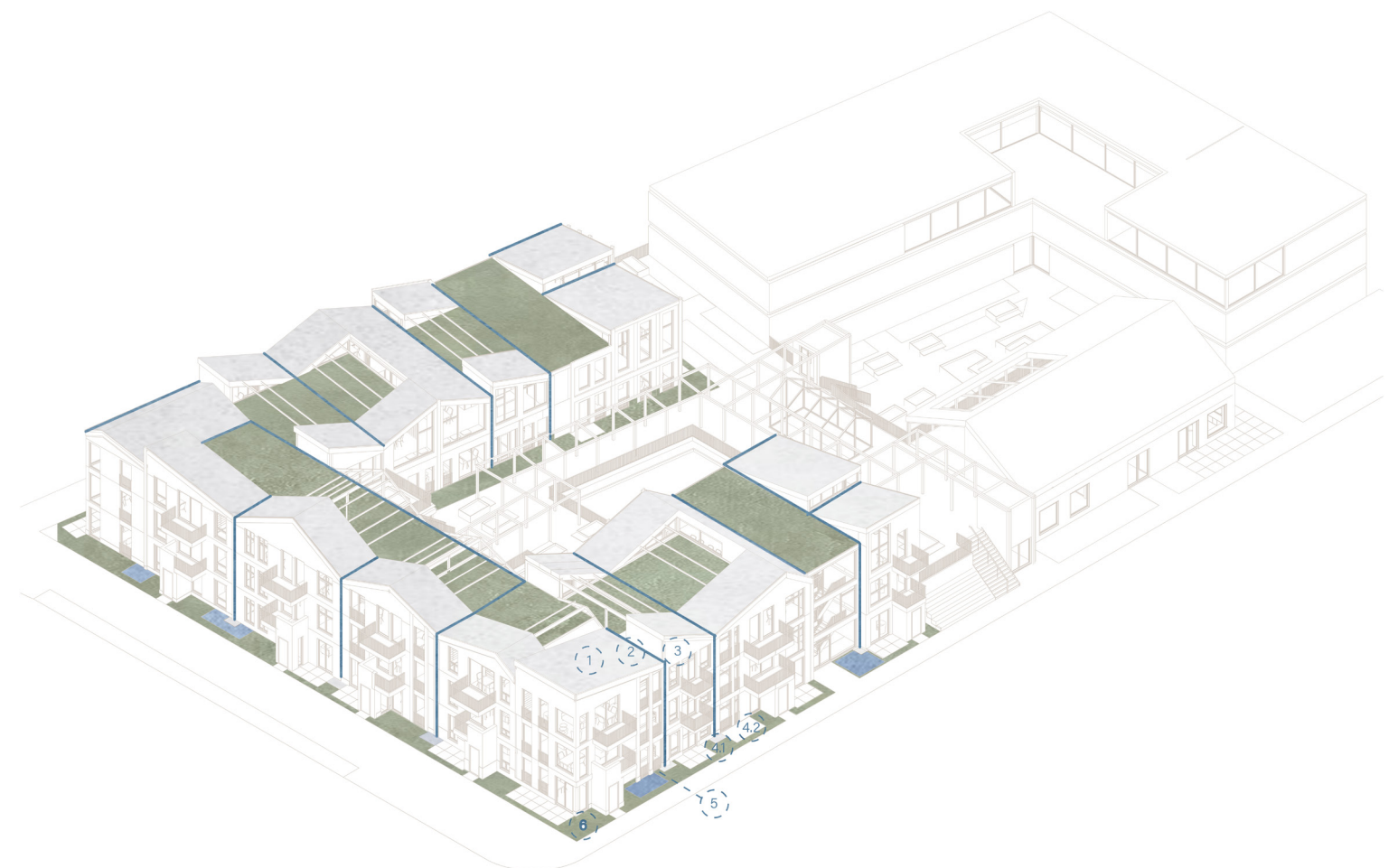
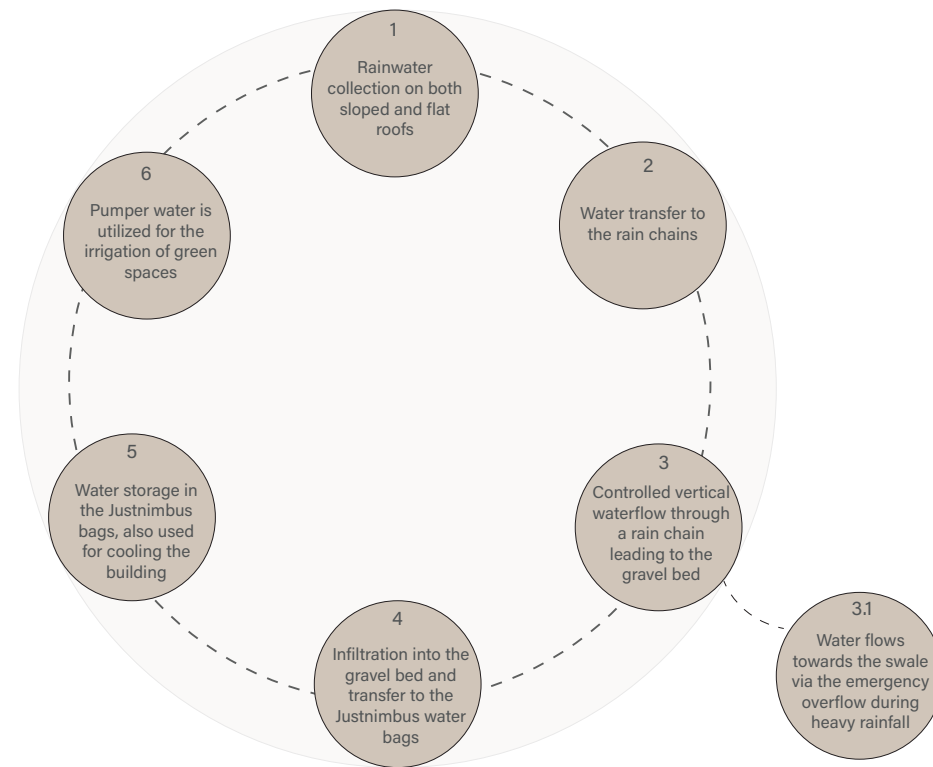
04 Passive construction



05 Acoustic performance

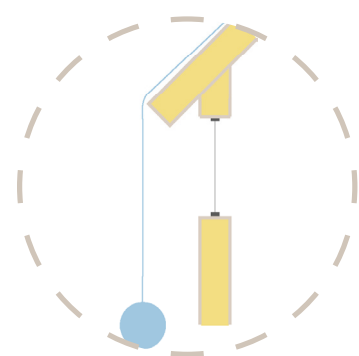
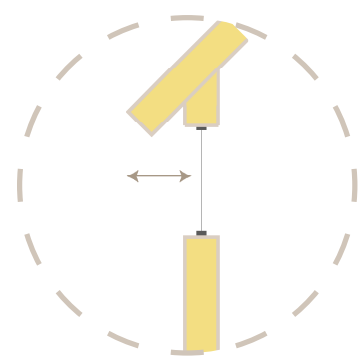


Small scale watercycle



Scale: 1:500

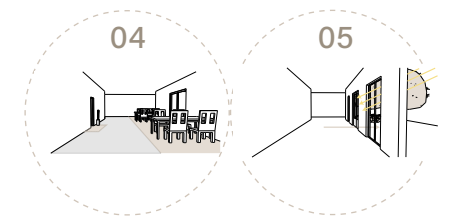
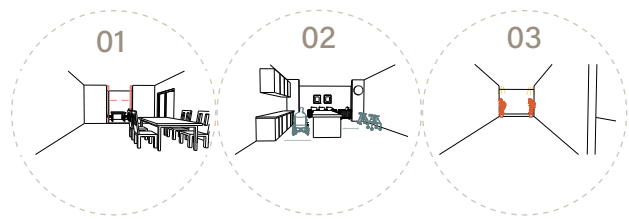
Ageing in and through the neighborhood



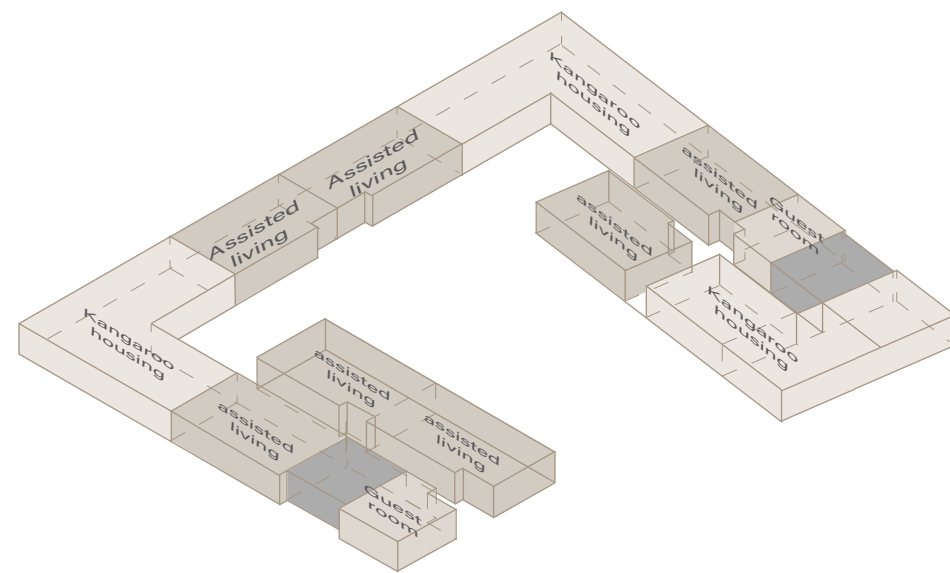
Bob van der Veen

Community on the first floor





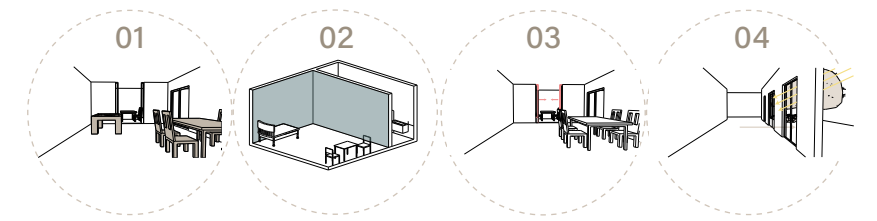
Floor plan: first floor



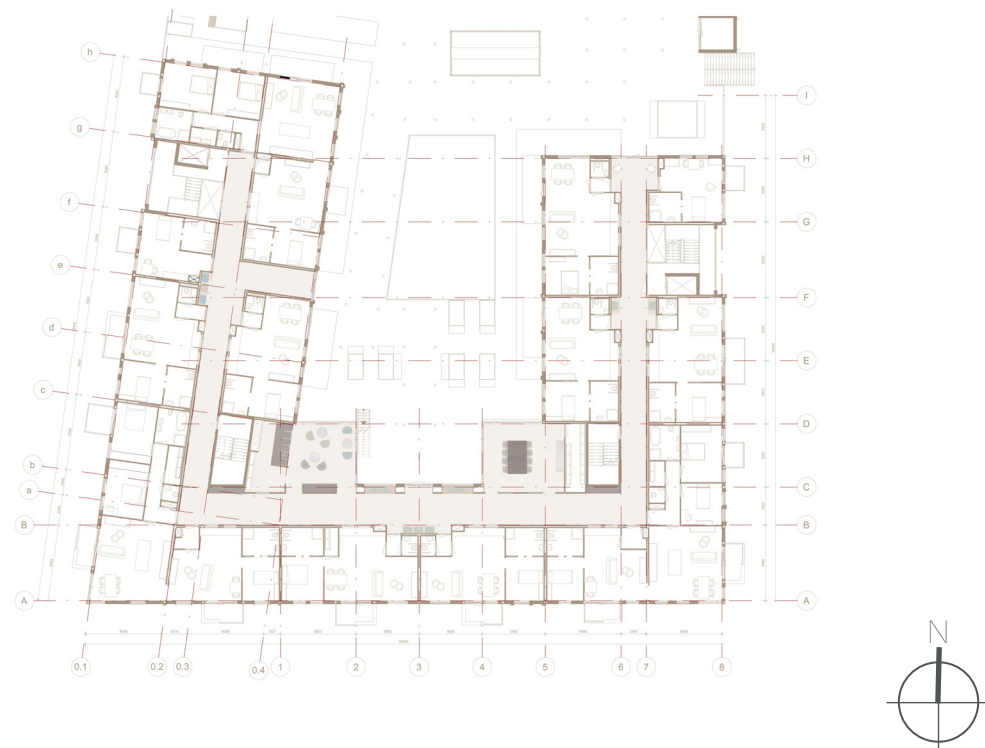
Scale: 1:300



First floor: creating a sense of community



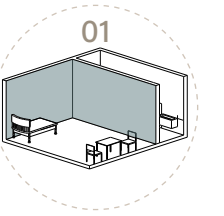
Pathway of interaction



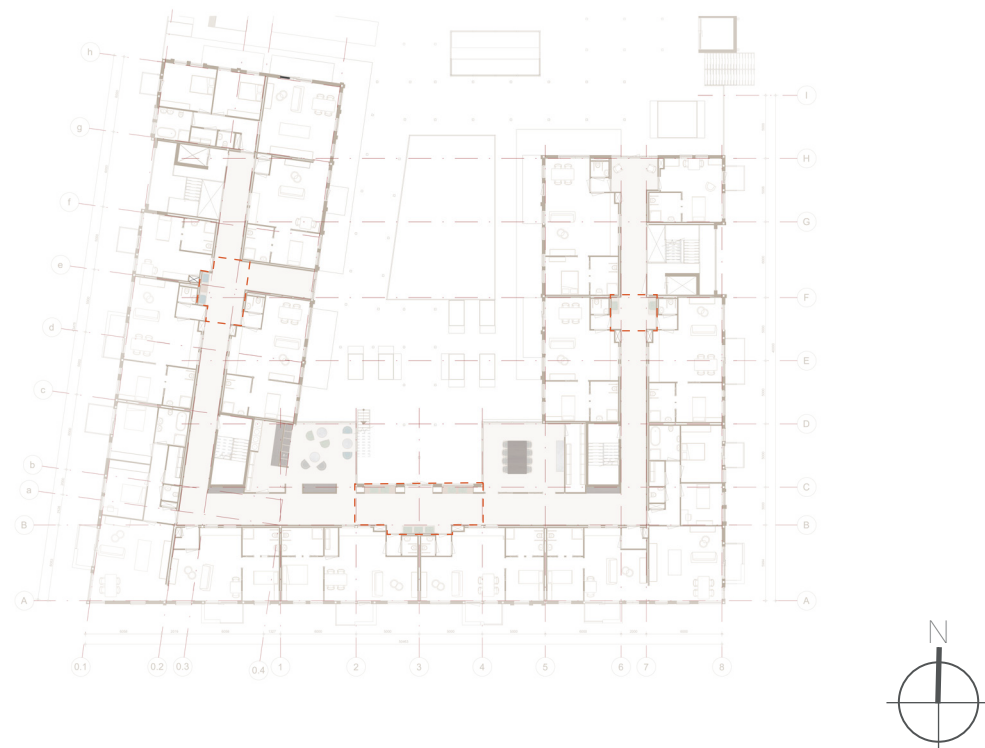
Scale: 1:600



First floor: creating a sense of community



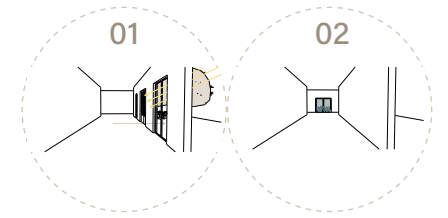
Meeting spots in the corridor for encounters on small scale



Scale: 1:600



First floor: creating a sense of community



Communal space as an extension of the courtyard

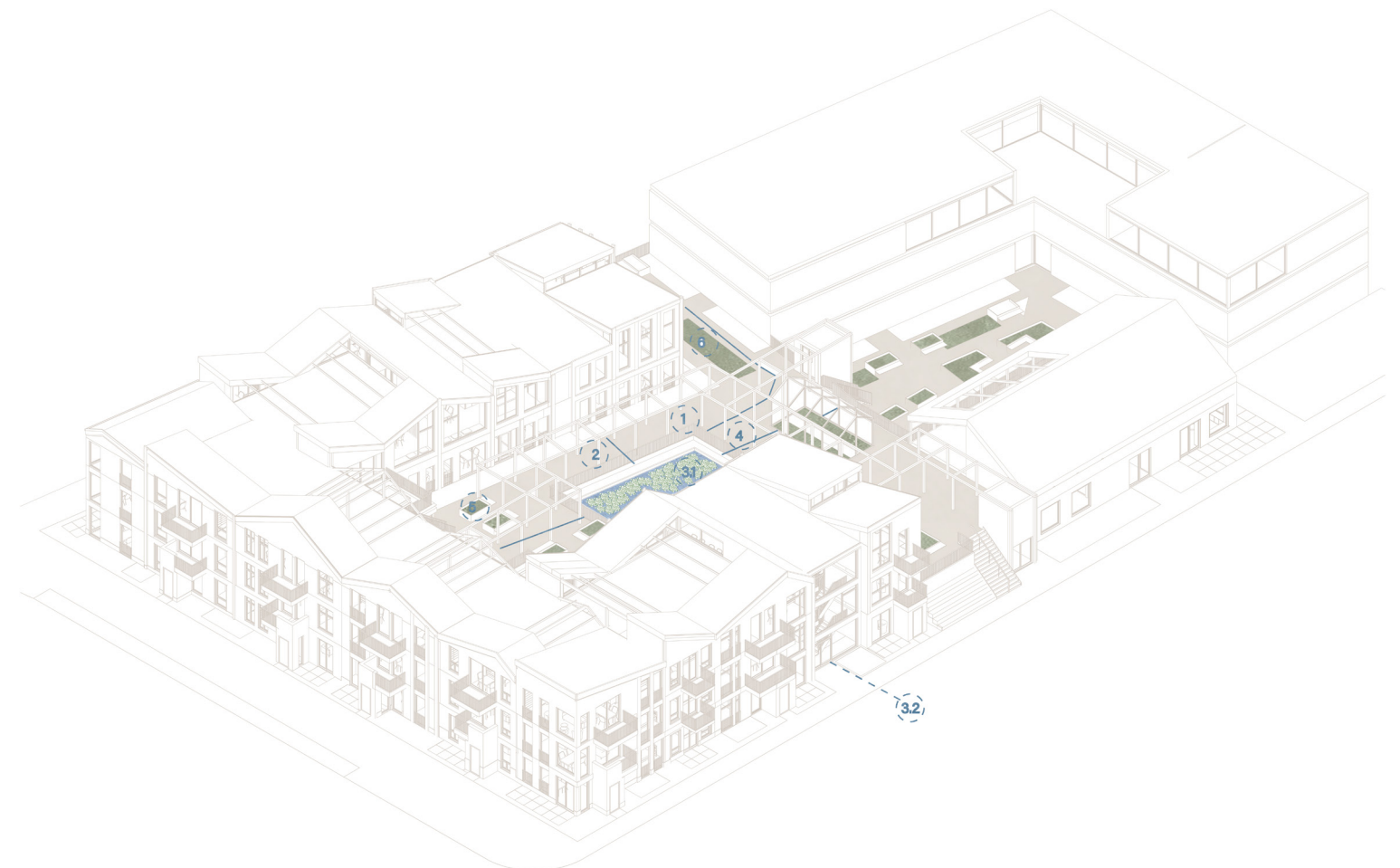
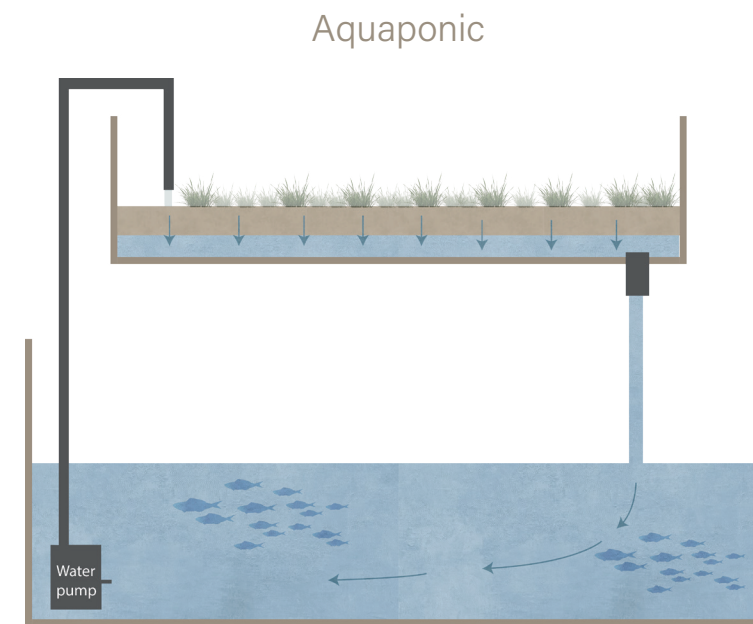
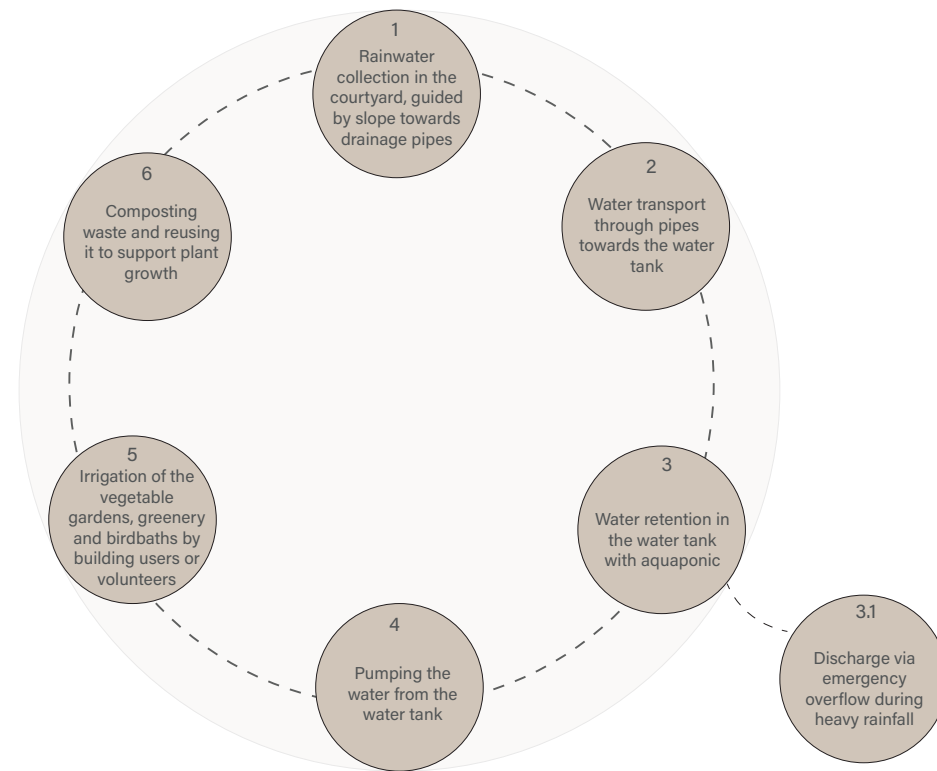


Scale: 1:600



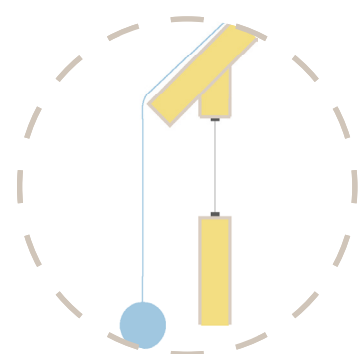
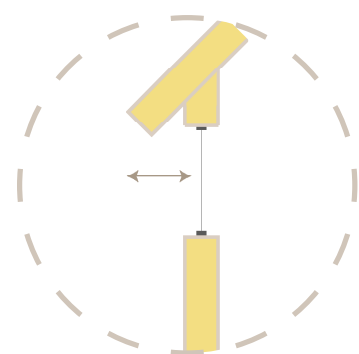
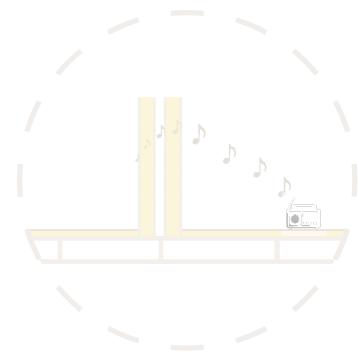
Courtyard as part of the water cycle

Watercycles on bigger scale



Scale: 1:500

Ageing in and through the neighborhood



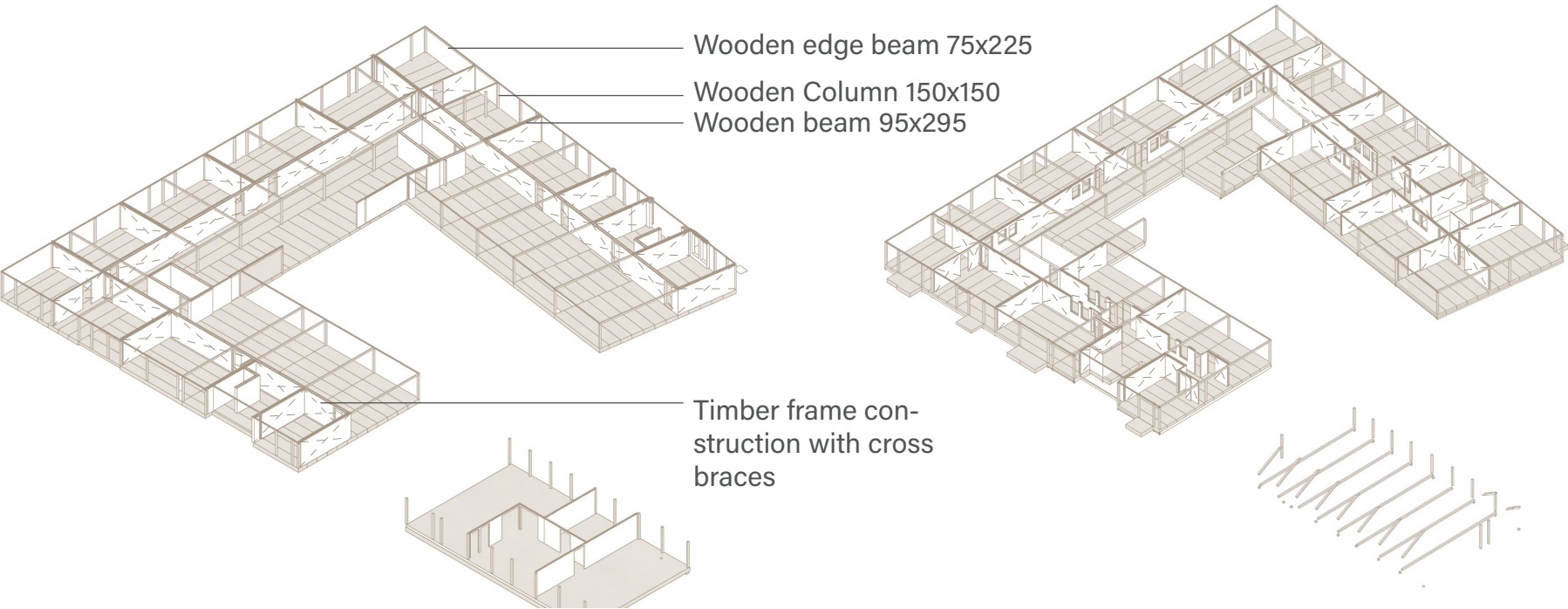
What if there is a need for a new layout in the future?

Construction

Construction ground floor

Construction first floor

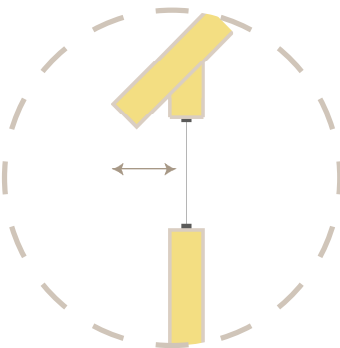
Construction second floor



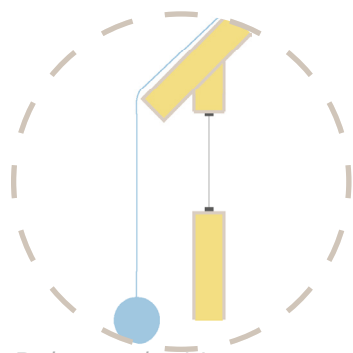
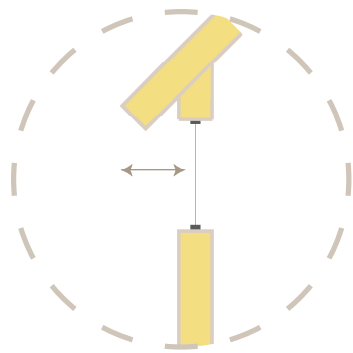
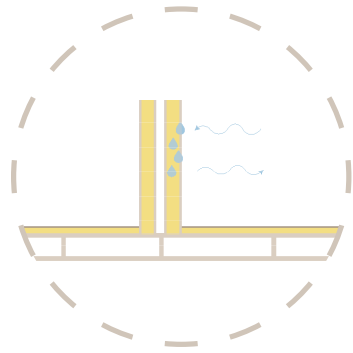
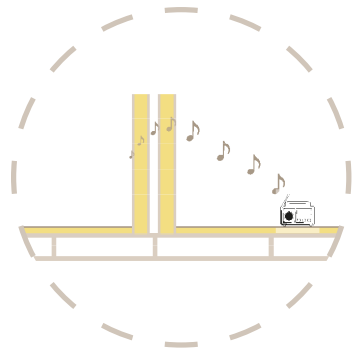
Scale: 1:5000

Scale: 1:5000

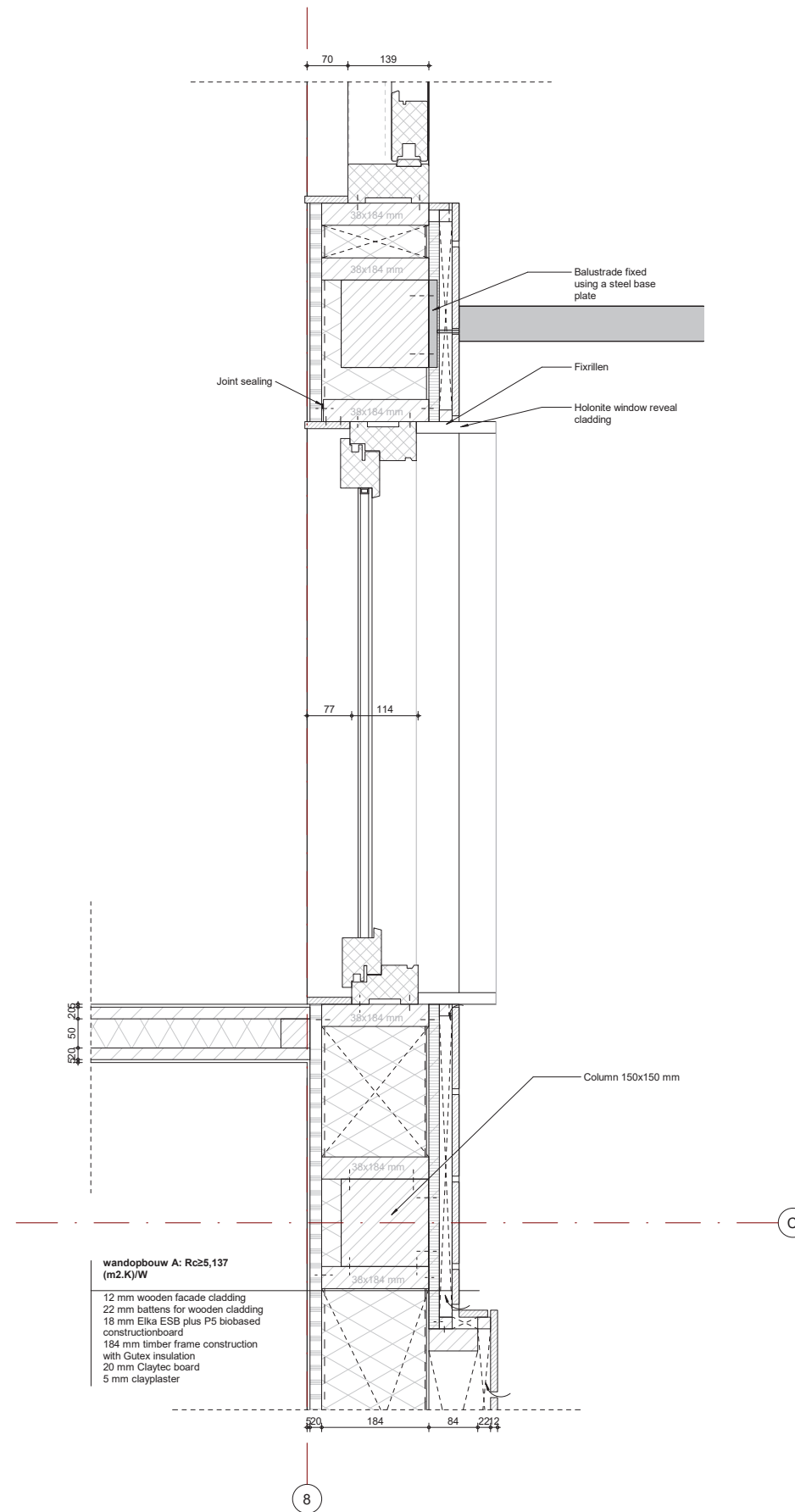
Scale: 1:5000



Details adaptability



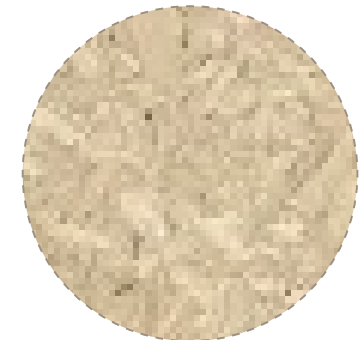
Bob van der Veen



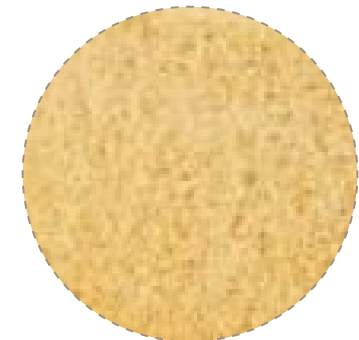
Scale: 1:20

Ageing in and through the neighborhood

Elka ESB plus p5 construction board



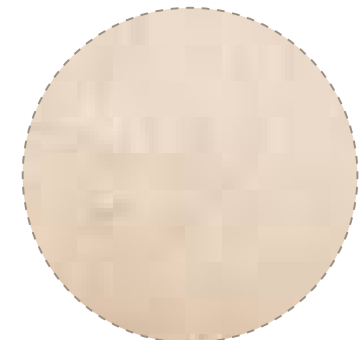
Gutex biobased insulation



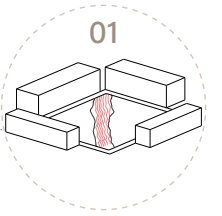
Claytec board



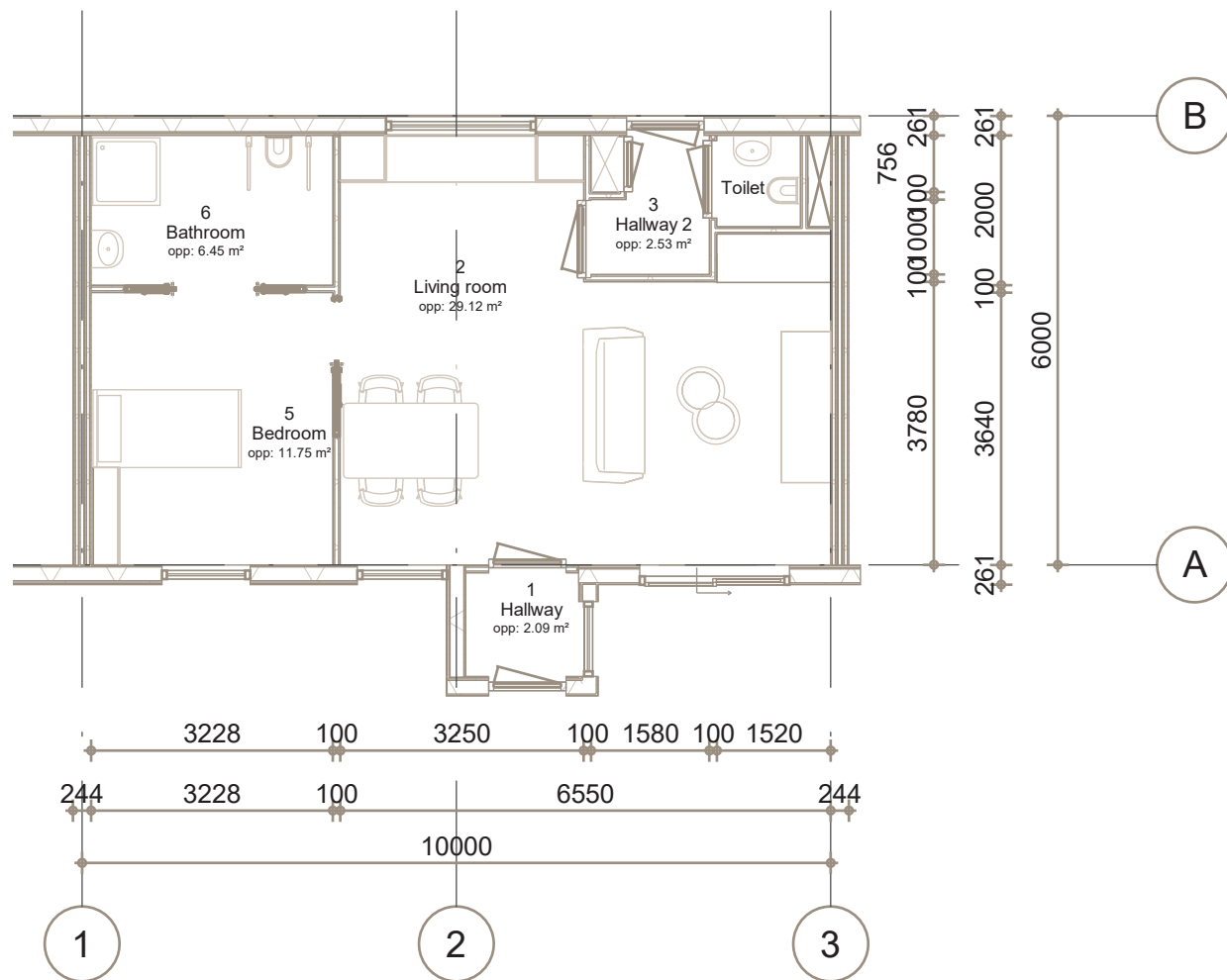
Clayplaster



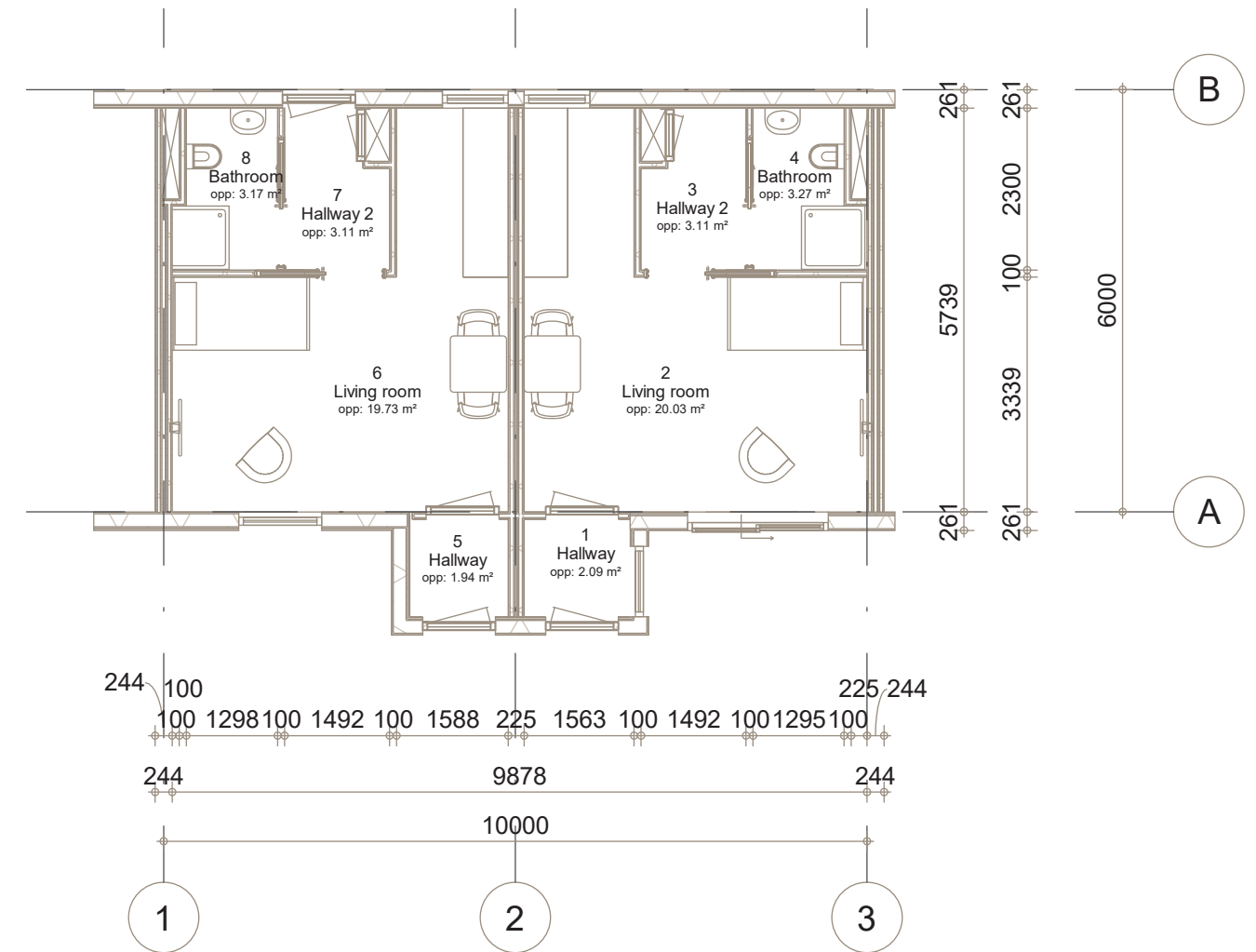
Adaptable building



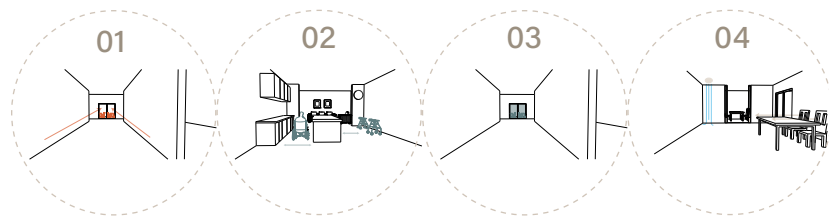
Option 1



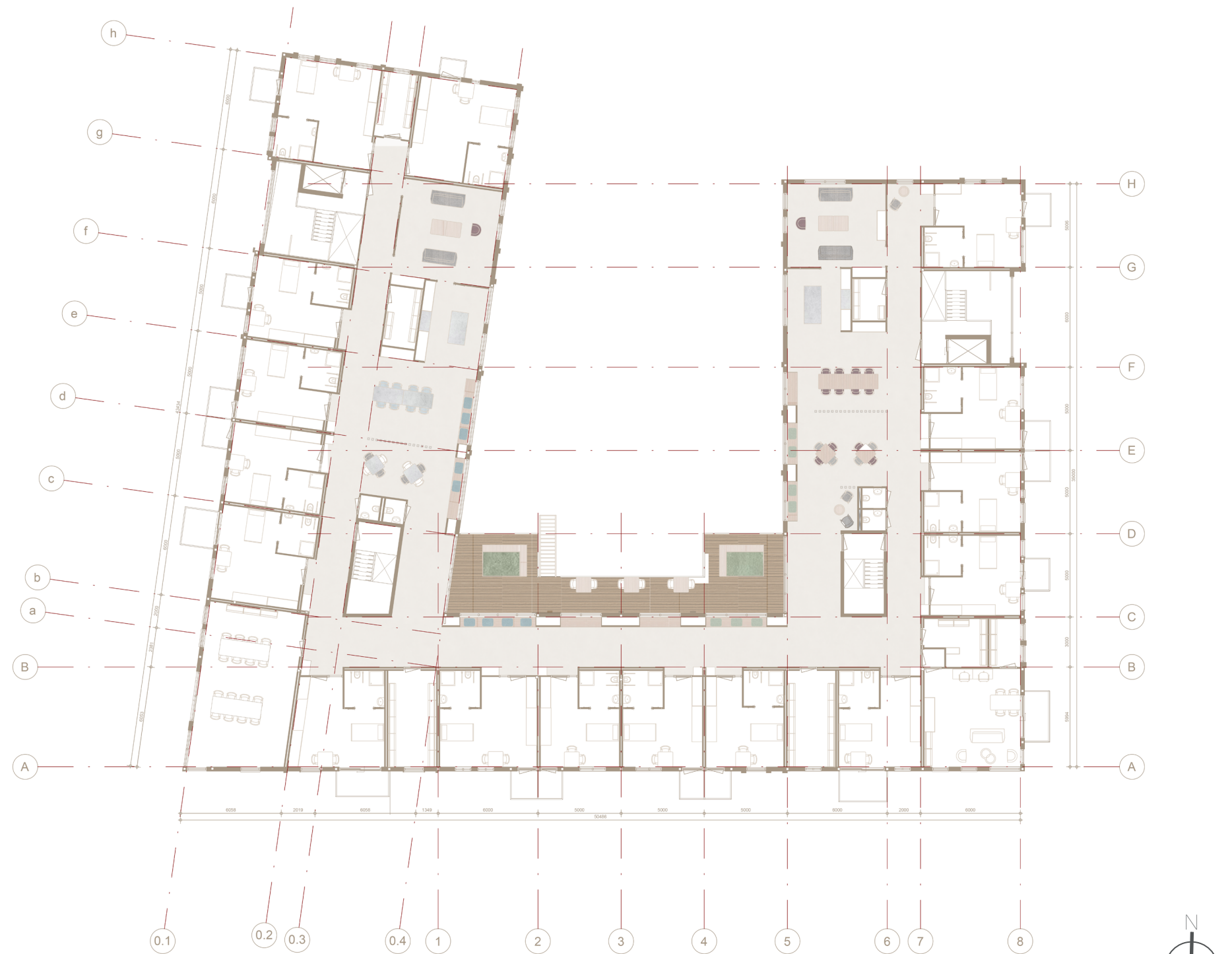
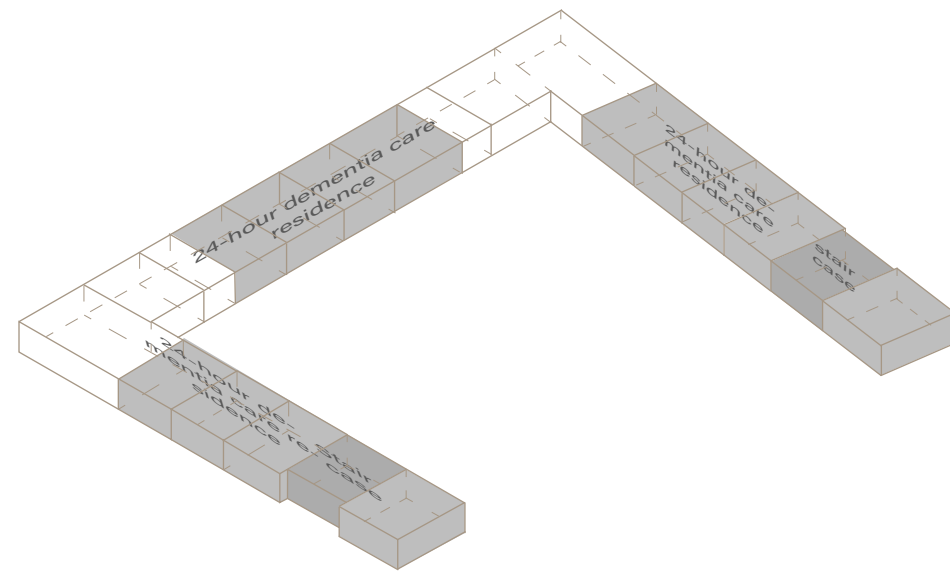
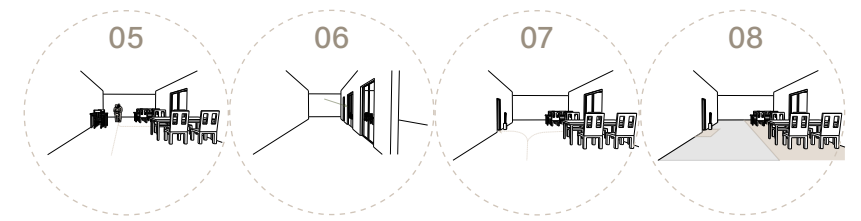
Option 2

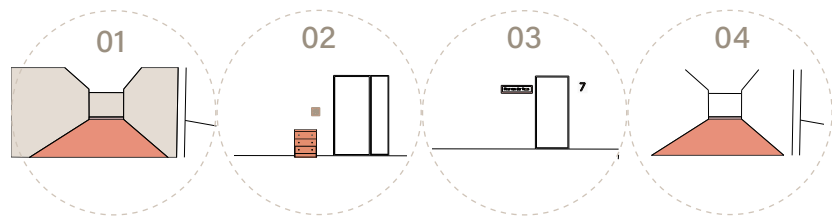


Second floor: 24-hour dementia care

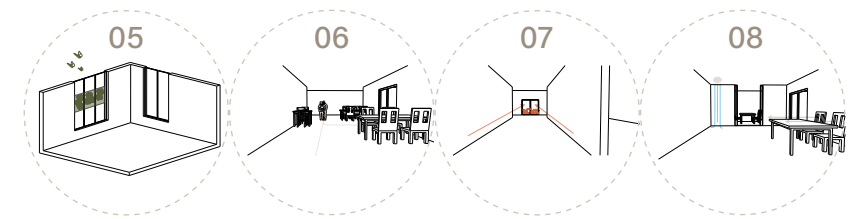


Floor plan: second floor





Living 24-hour dementia care



Living area winter

Living area summer

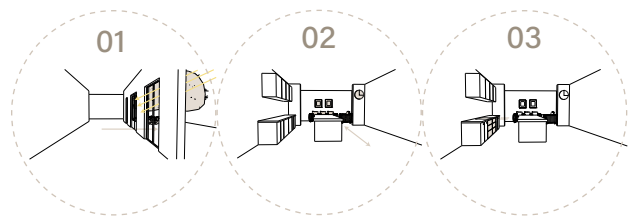


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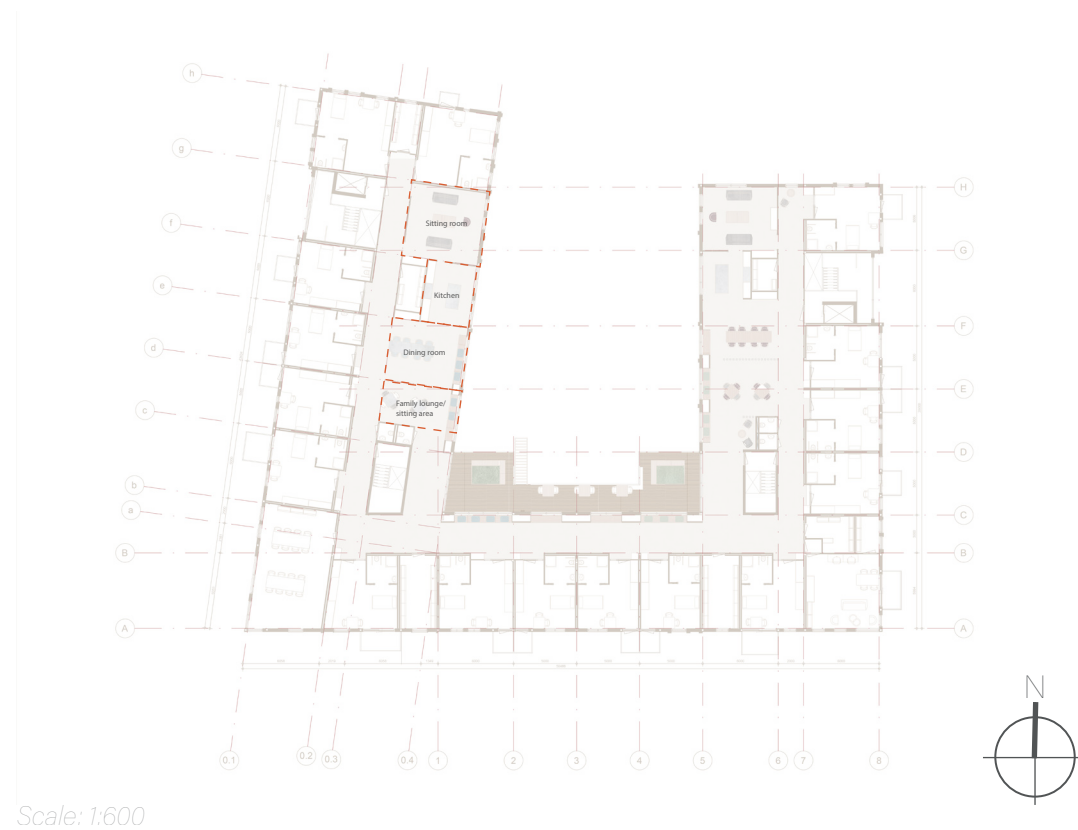
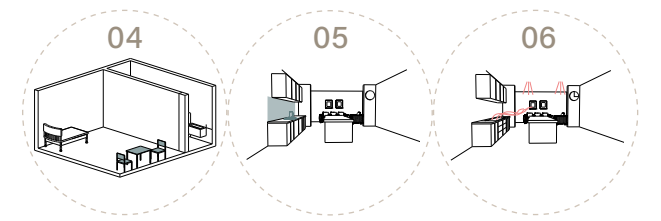


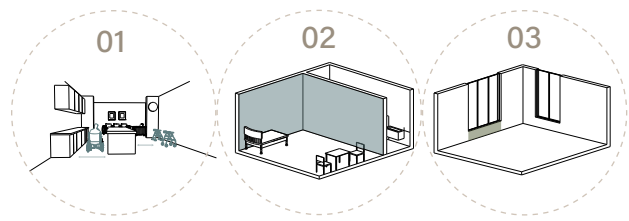
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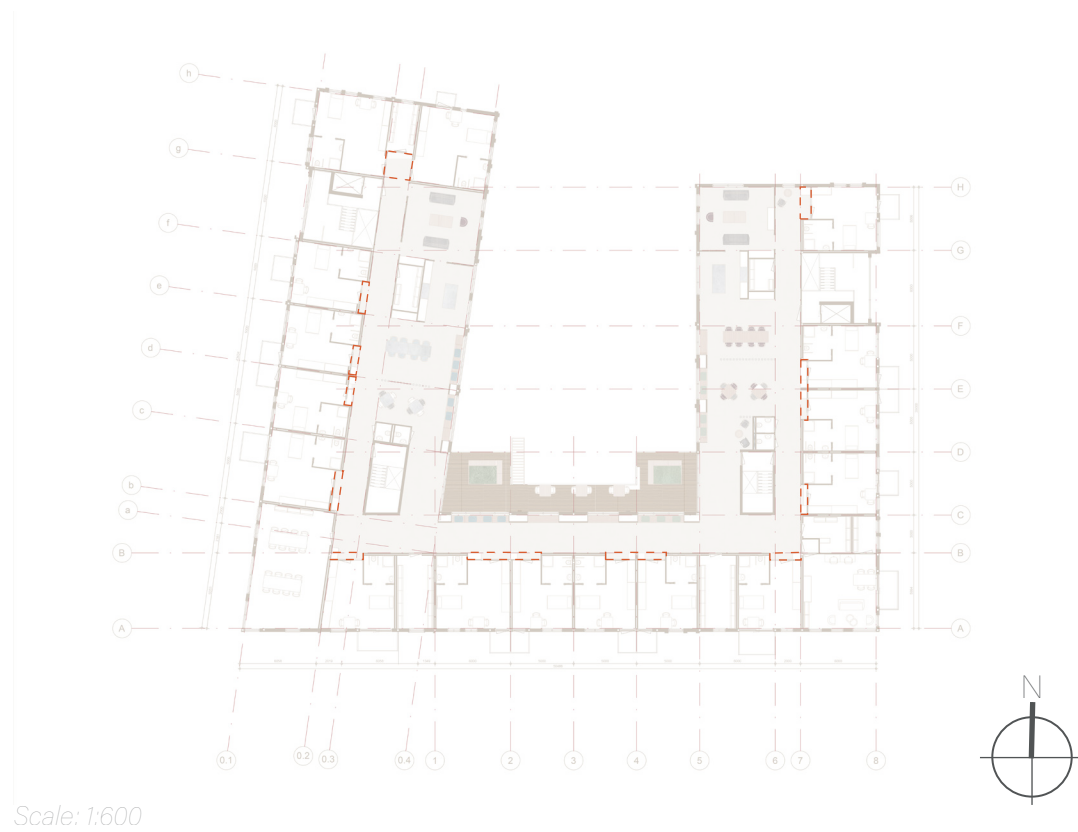
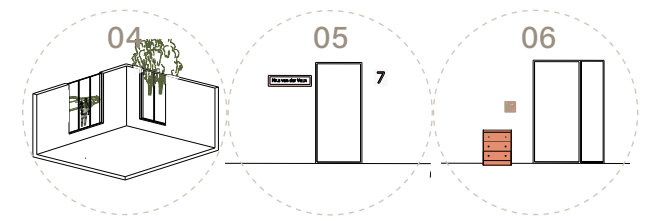


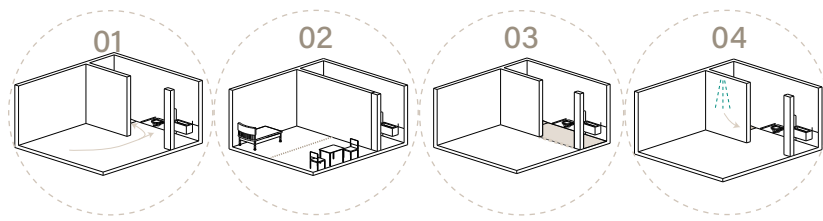
Zoning in the living room



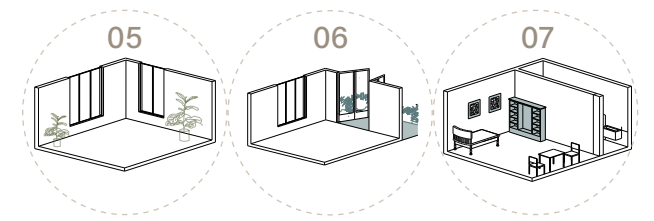


Hallway as a social space

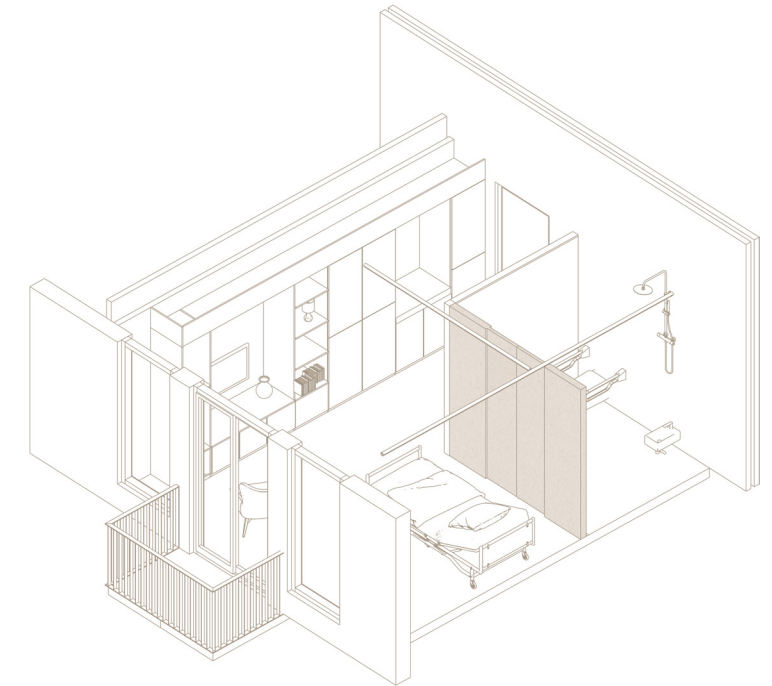




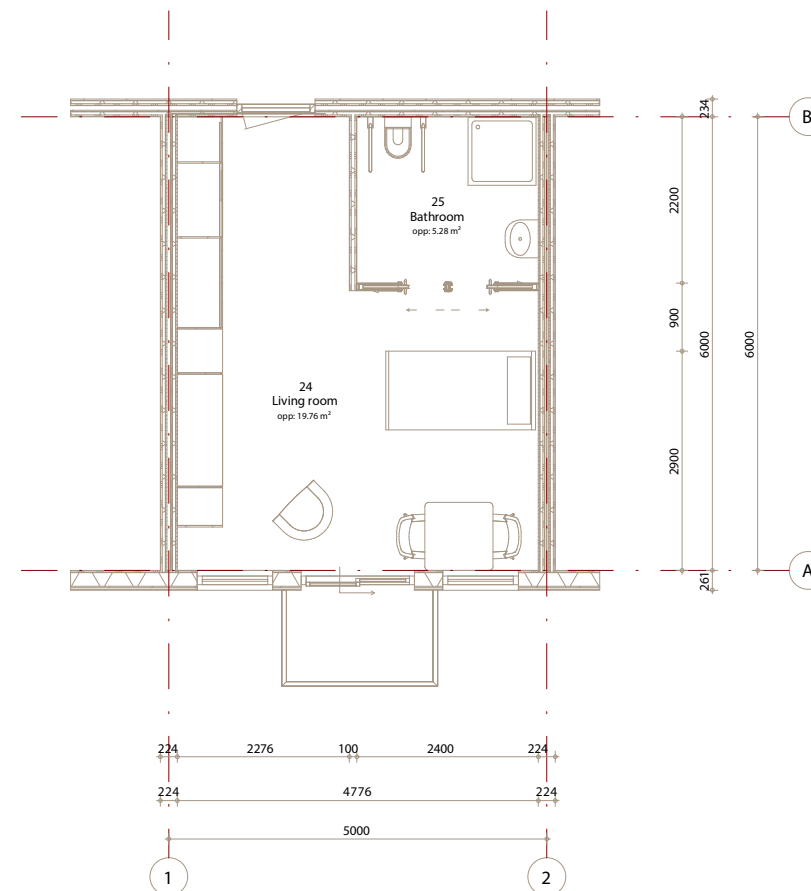
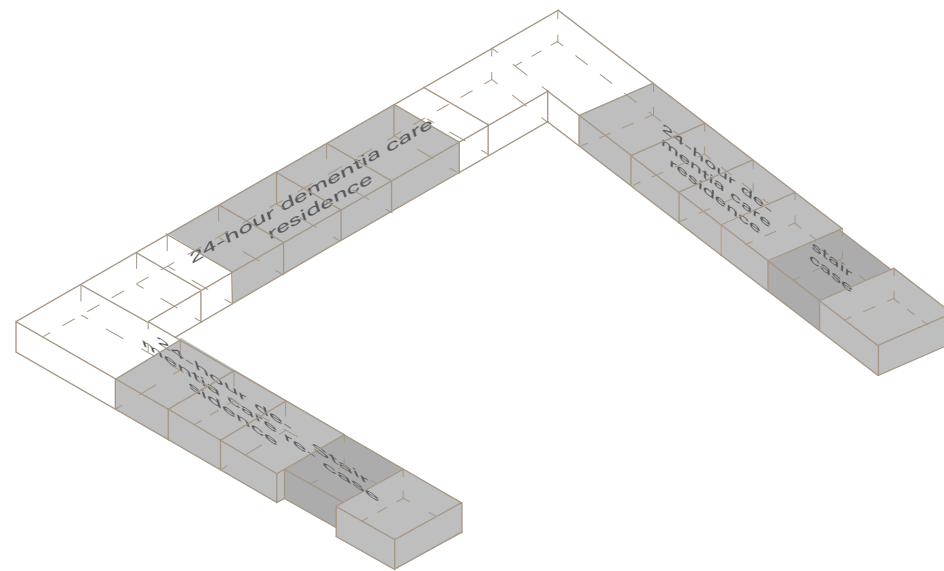
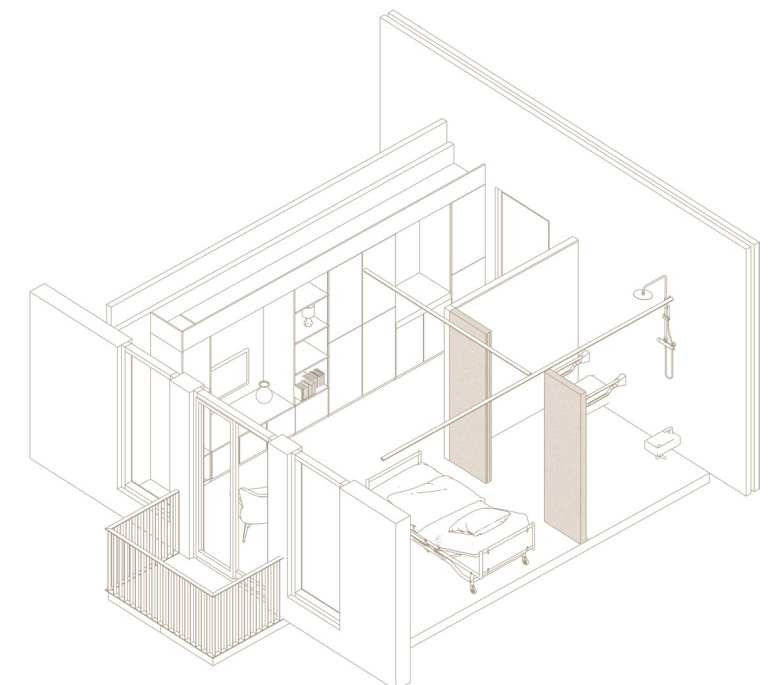
24-hour dementia care residence



Situation 1: sliding doors closed and bathroom locked

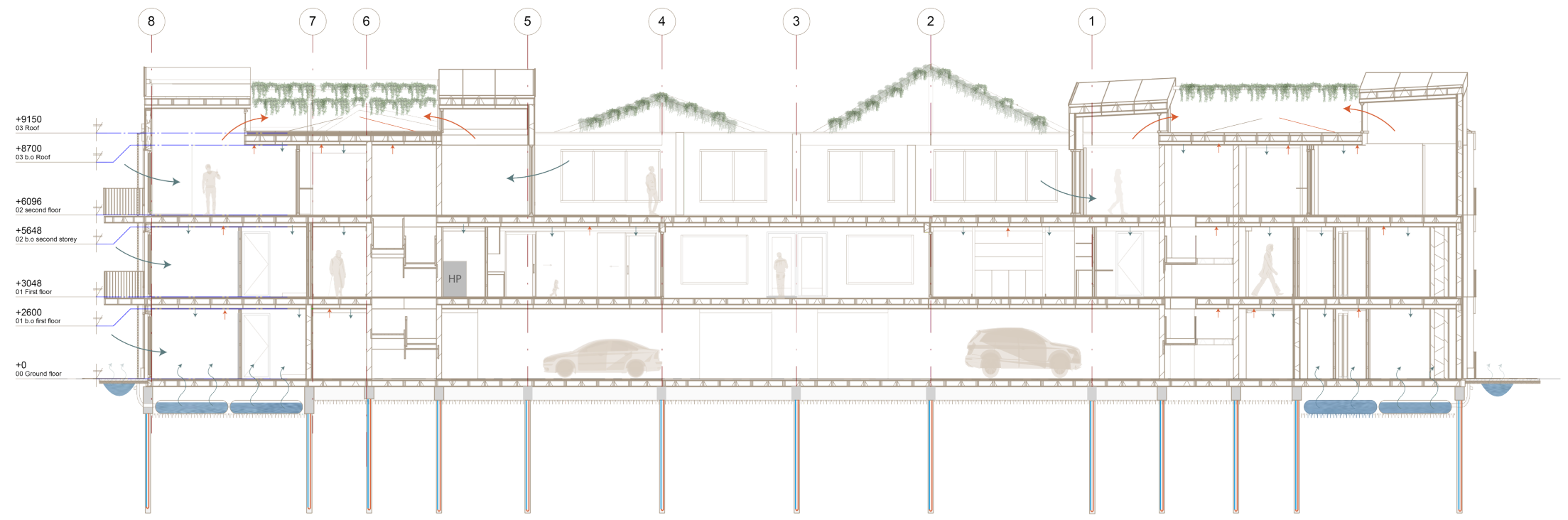
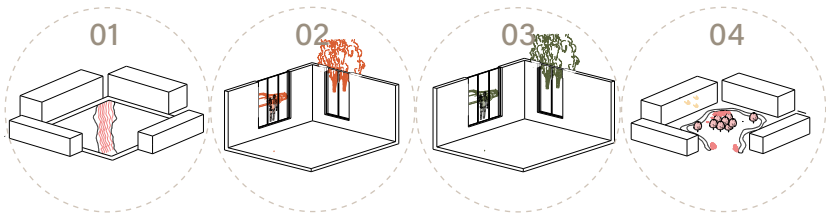


Situation 2: sliding doors open and more efficient care possible



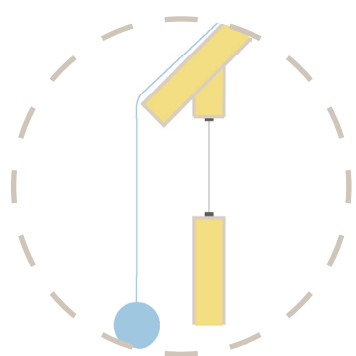
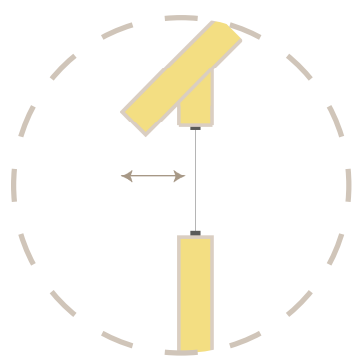
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Climate section summer

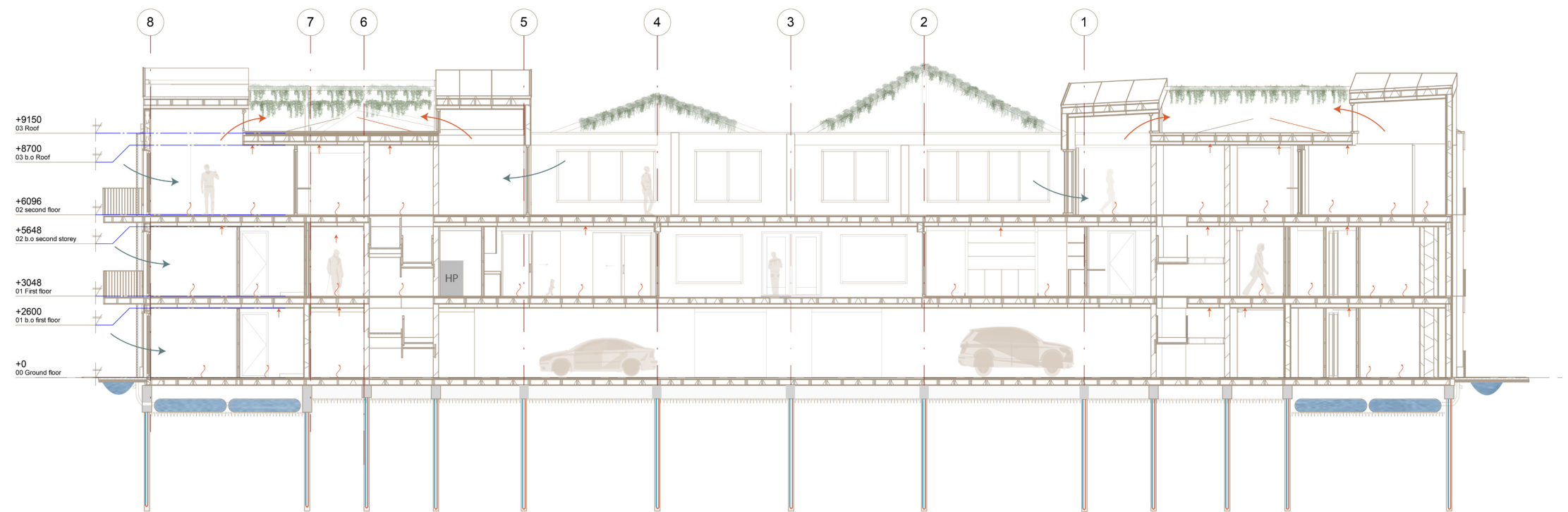
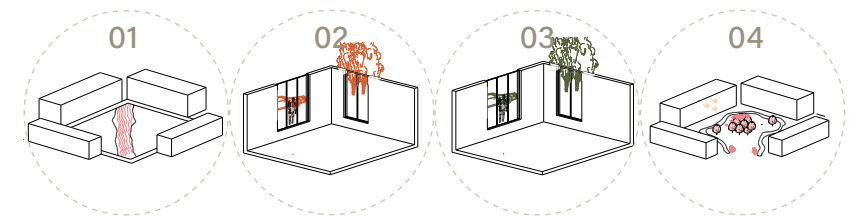


Scale: 1:200



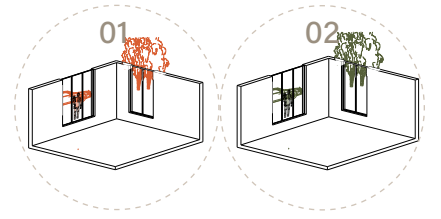


Climate section winter



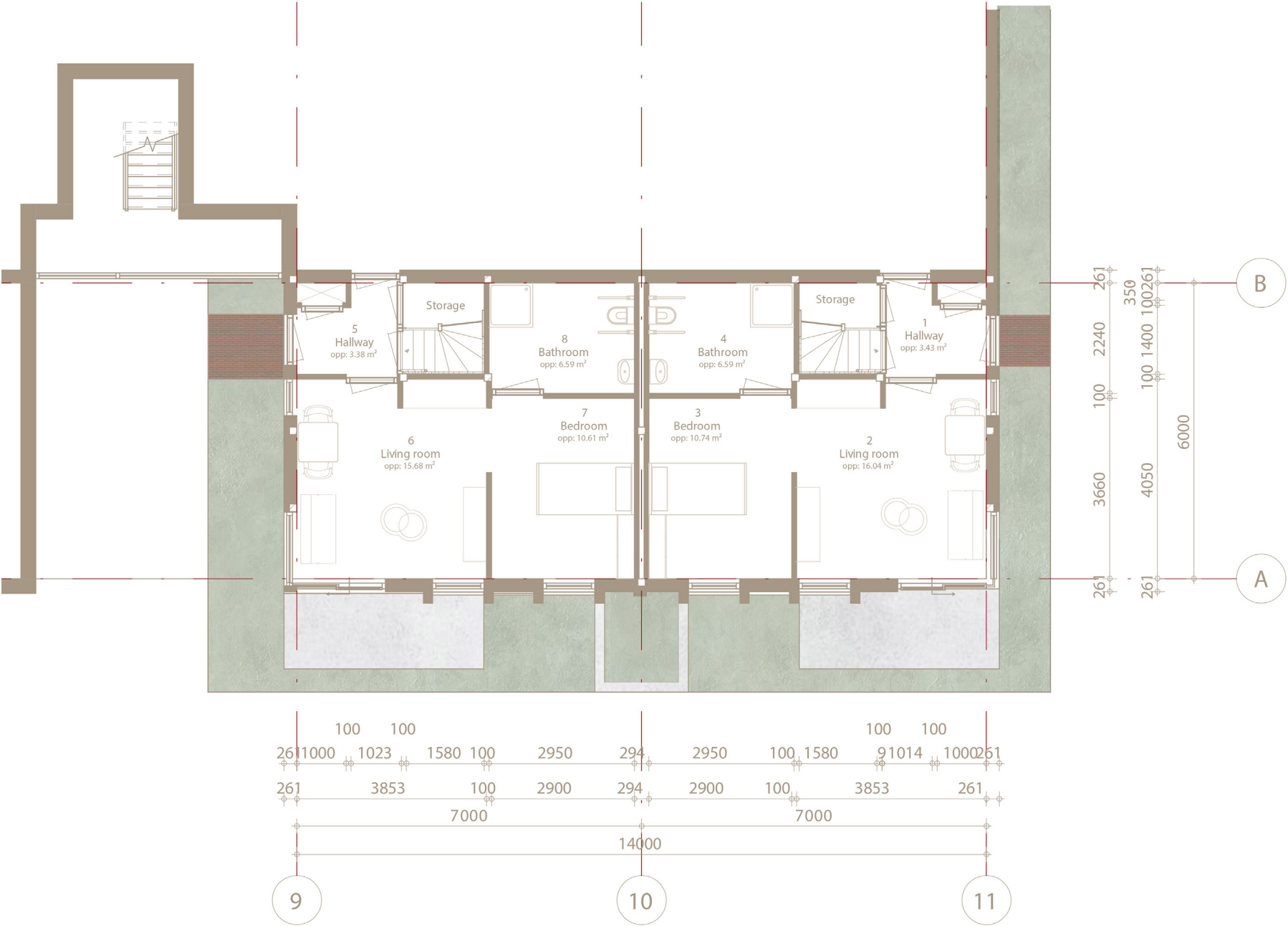
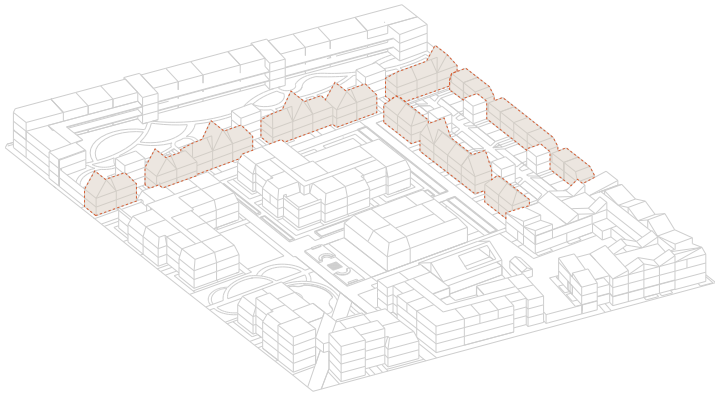
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Sightlines to the outdoor environment



Kangaroo housing

Floor plans kangaroo housing



Floor plans kangaroo housing



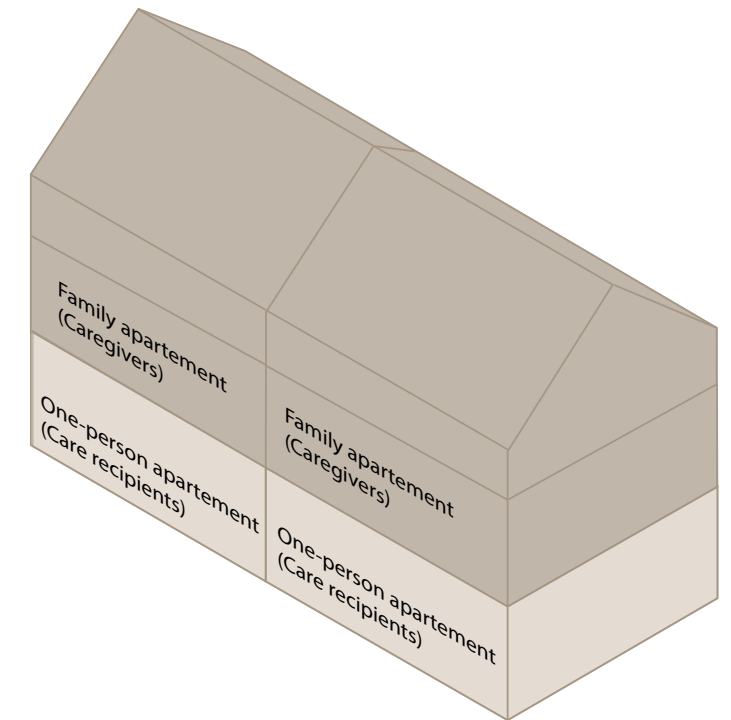
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Scale: 1:150

Situations kangaroo housing

Situation 1



Situation 2

