

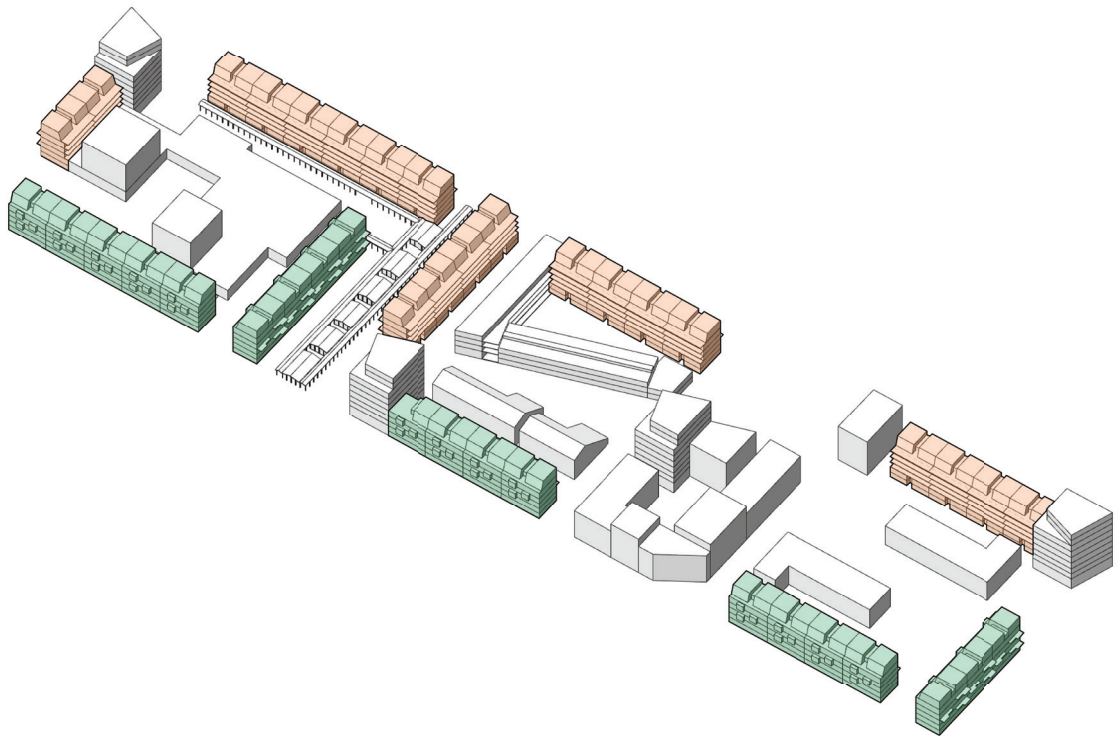
Drawing Booklet

The book depicts some critical design interventions that indicate flexible and adaptable residential design strategy that promotes productive life on material scale to urban scale.

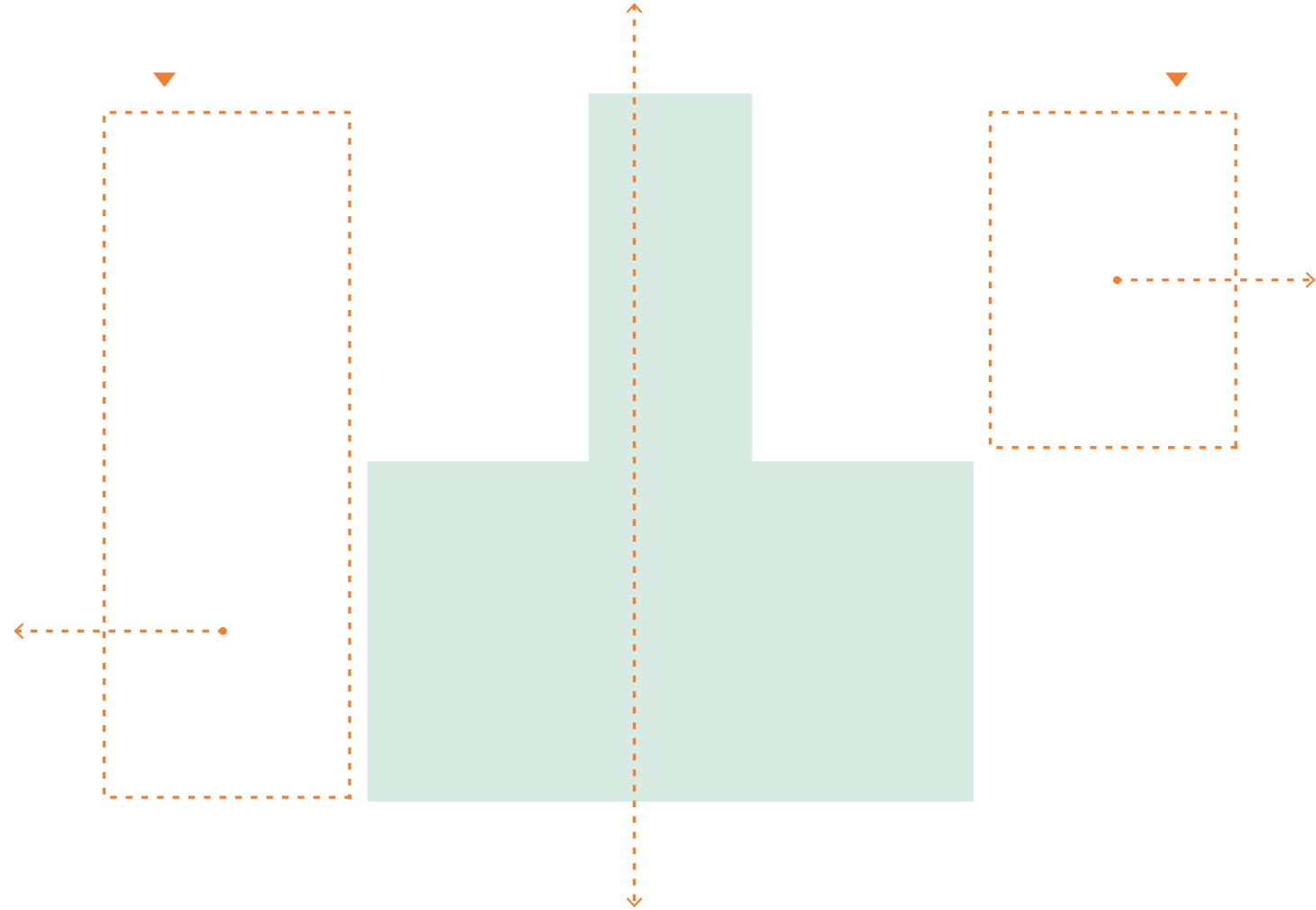
Renovation Strategy

Existing post-war residential units take up a significant amount out of the entire project. As opposed to the concept of productive home, the existing post-war residential units are realized based on the idea of excluding the productive aspect of home and embracing only the reproductive aspect of home. Therefore, the renovation strategy has focused on reclaiming the productive aspect of home on material and architecture scale.

Renovating an existing building and touching upon the structural and spatial structure of each unit is carefully done on material scale. When renovation process is radically done on rather bigger scale, it is likely that the existing inhabitants cannot afford so that they are unwillingly kicked out of their living places. For this reason, it is essential to approach the renovation process strategically, on material scale which minimizes the risk of burdening the existing inhabitants both financially and functionally.

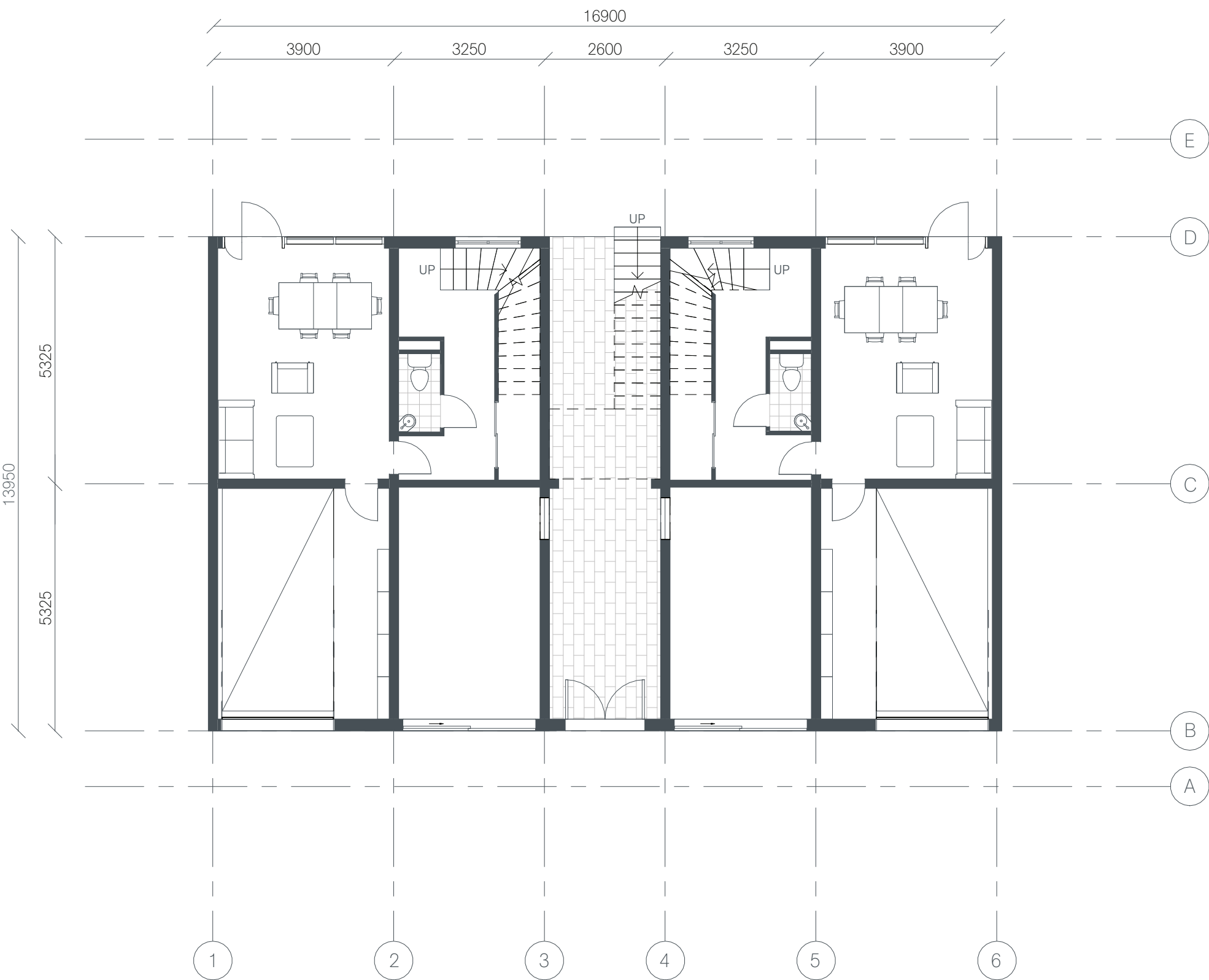


The inactive ground floor is now turned into more active and approachable by 2. equipping a *separate productive-function dominated room* on the ground level. The productive room can expand to the parking garage. Car/bike repair shop can be one example.



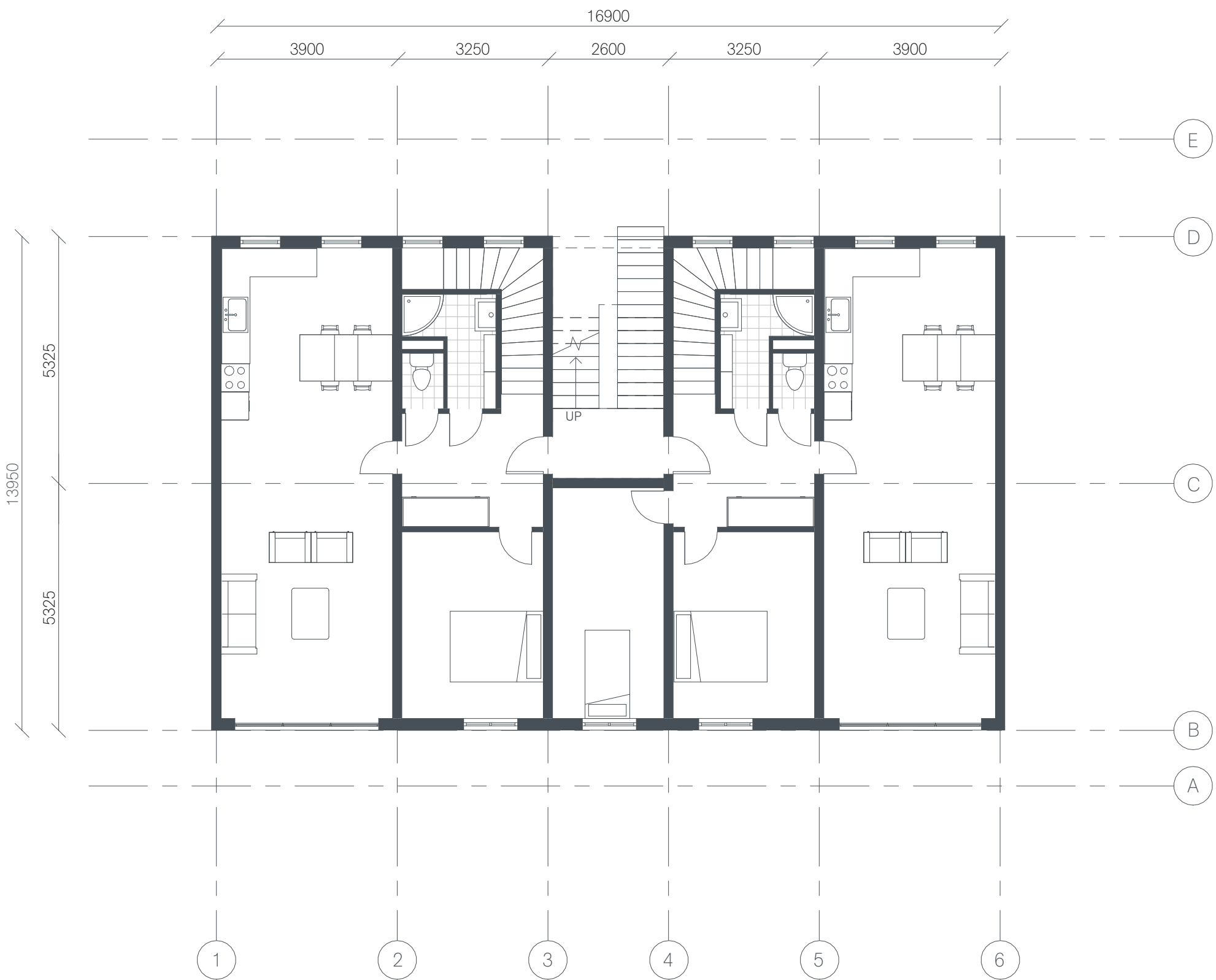
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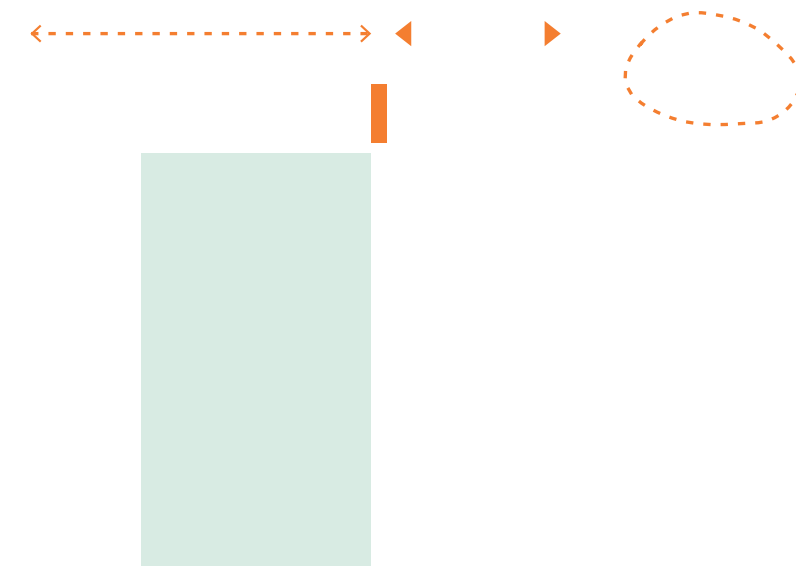
The inactive ground floor is now turned into more active and approachable by 1. equipping *public bike parking spaces* and the *permeable core*. The staircases on the ground level is modified in such as way that passersby can look through and walk through the building.



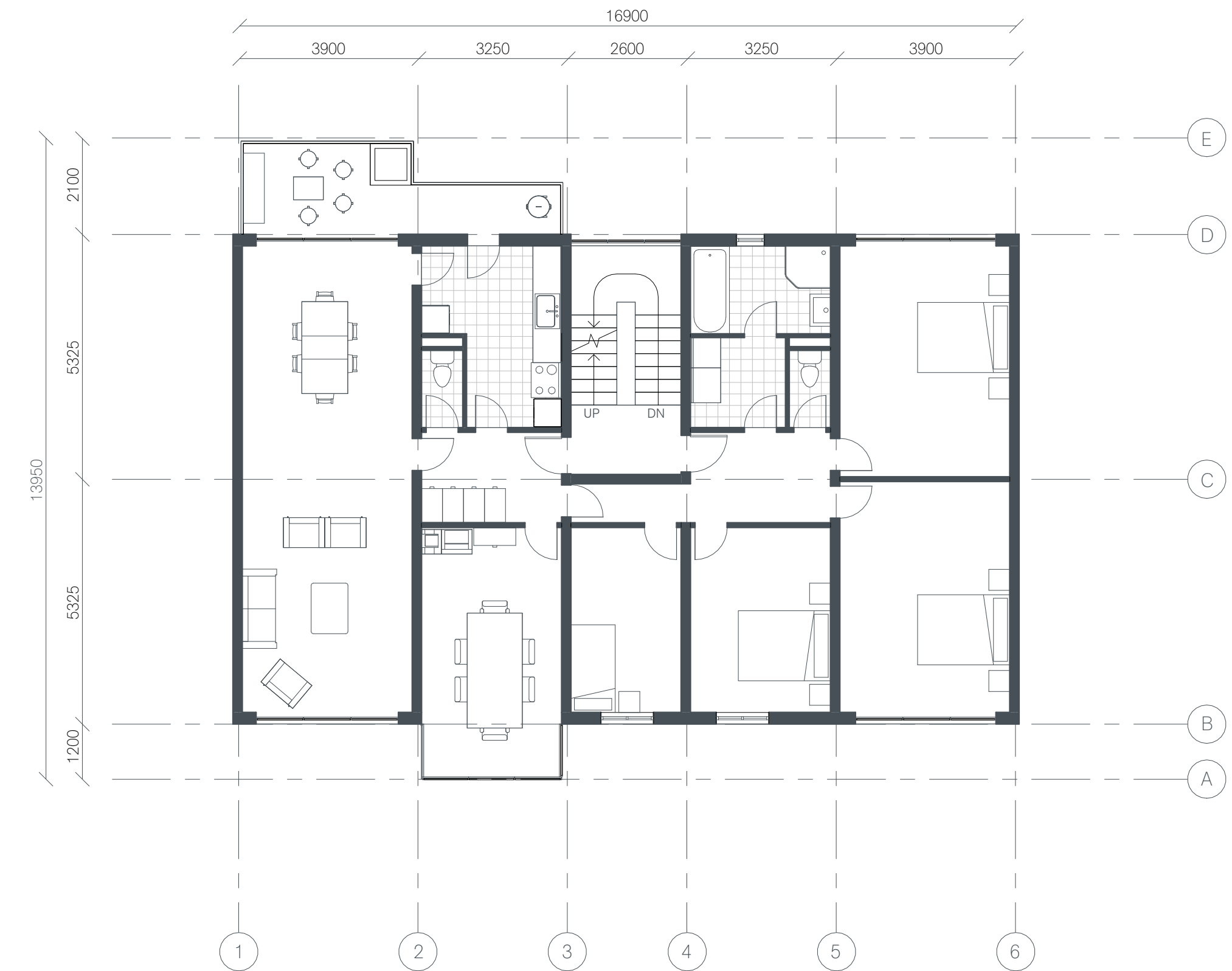


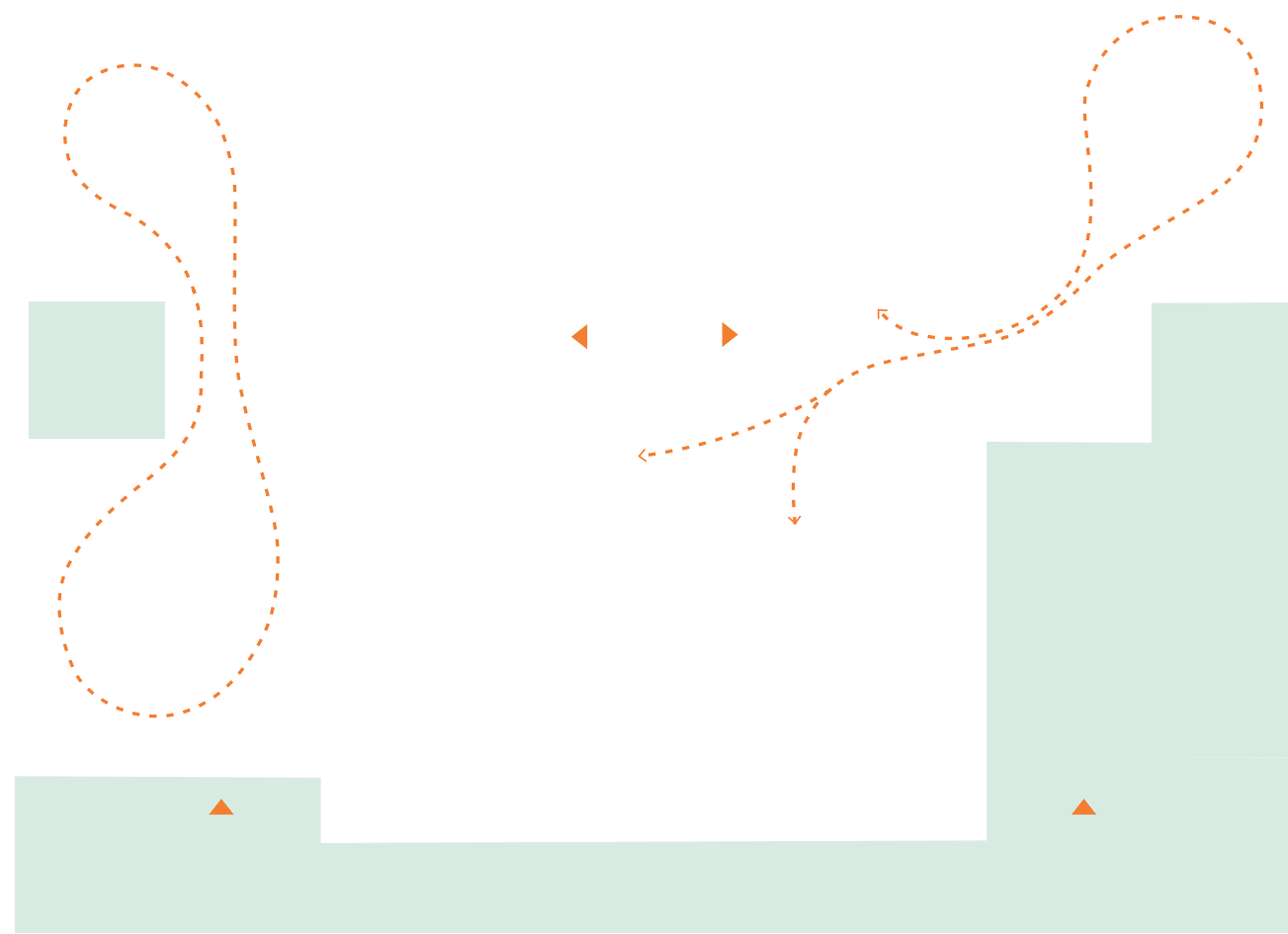
The upper level of the mezzanine unit is dedicated to *live-function dominated* rooms. With separate entrances through the core, the inhabitants can secure their privacy because the prouctive-function-dominated space is located separately.



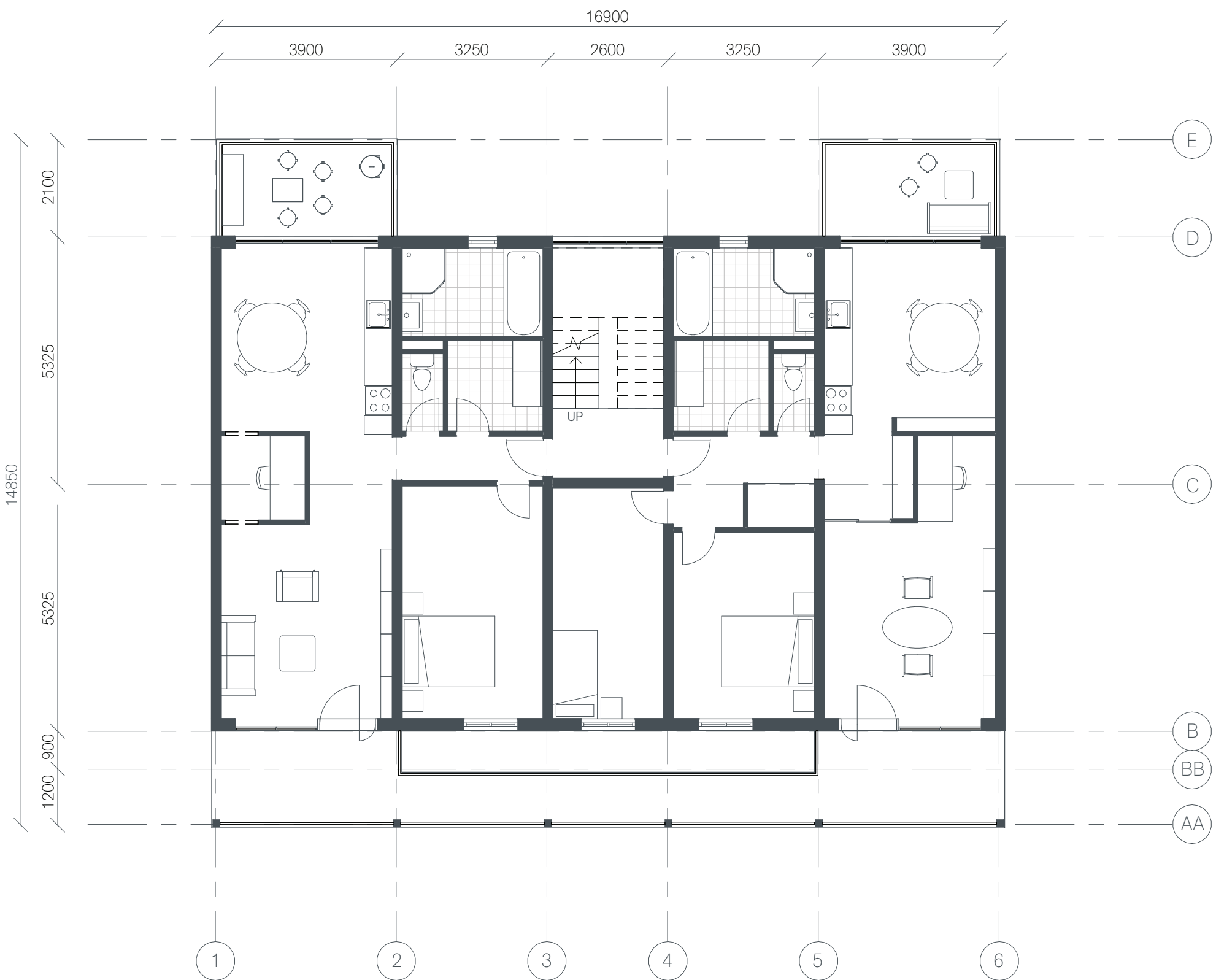


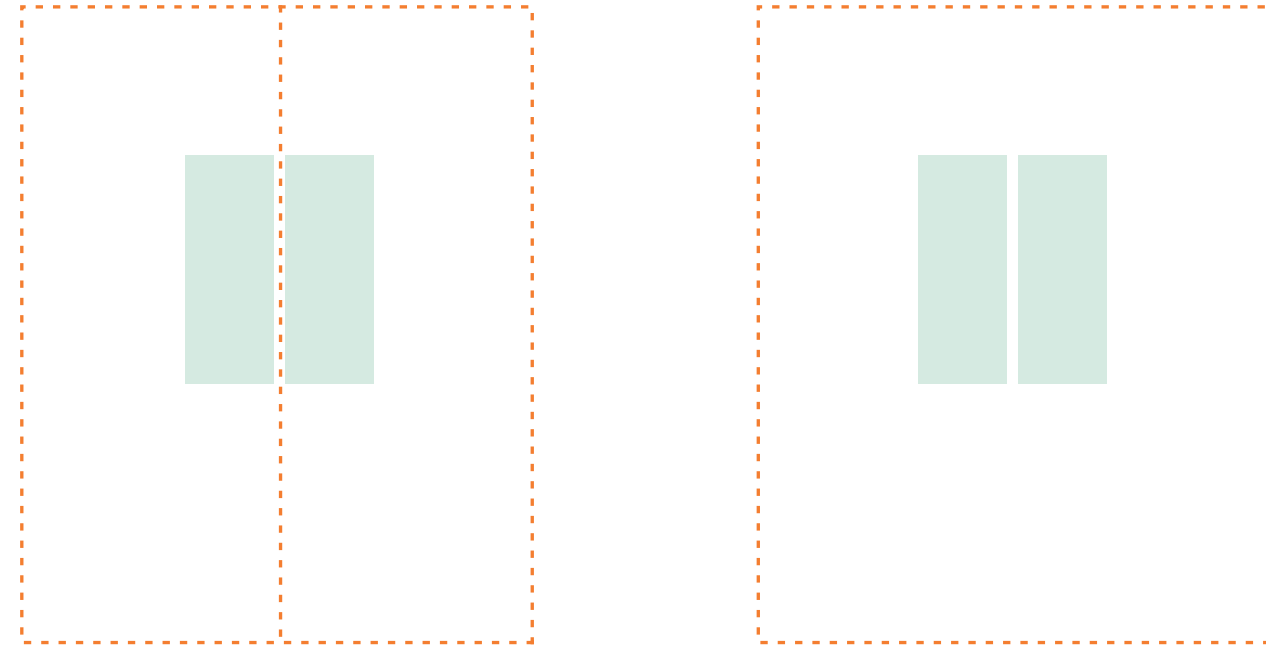
The new productive-function is *living adjacent to the live-dominated* residential unit. While maintaining the existing reproductive characteristic of post-war residences at any time of the day, rooms with more public functions can be divided only by closing one door in the hall way. This keeps the rest of the inhabitants in the rooms more private and quiet.



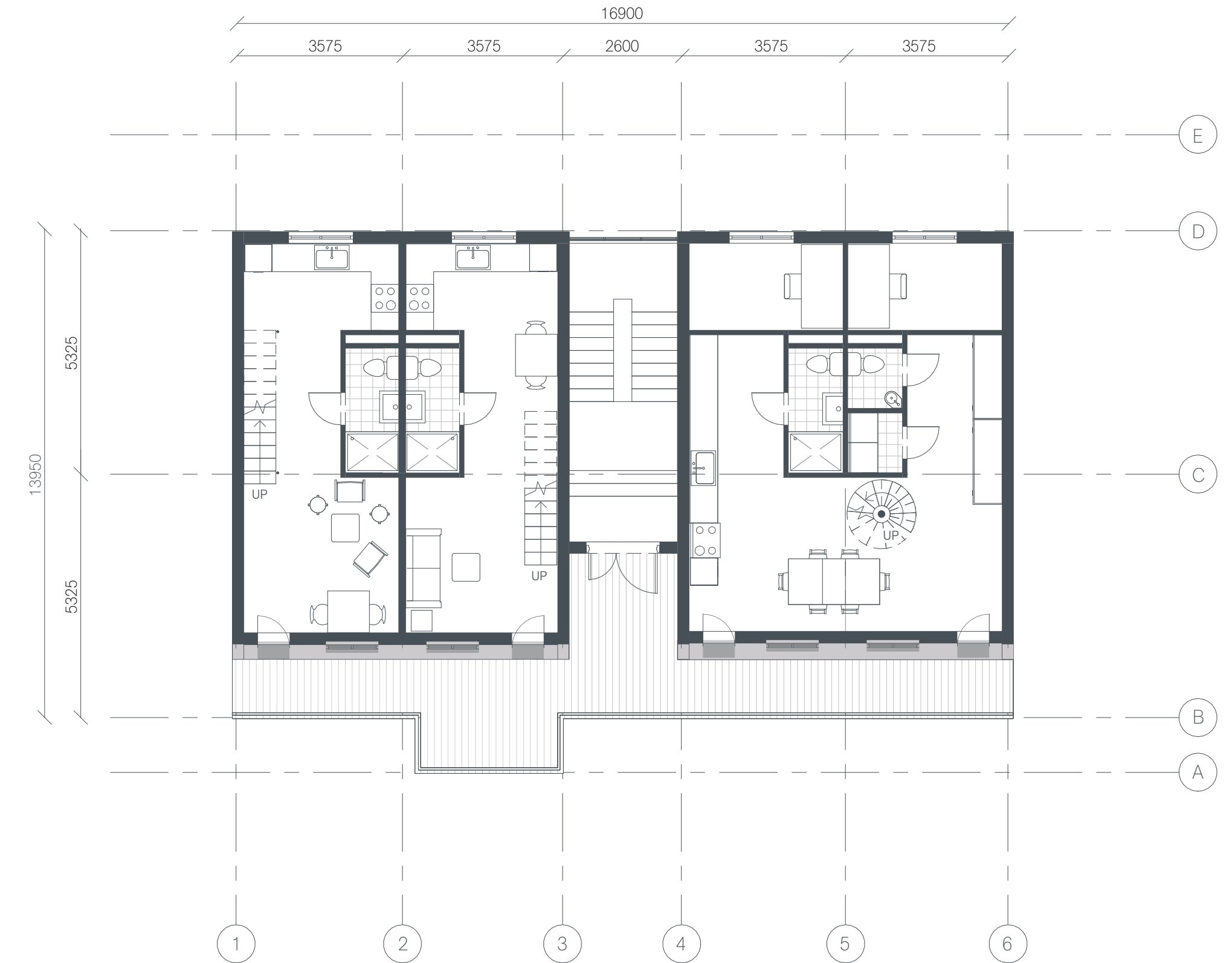


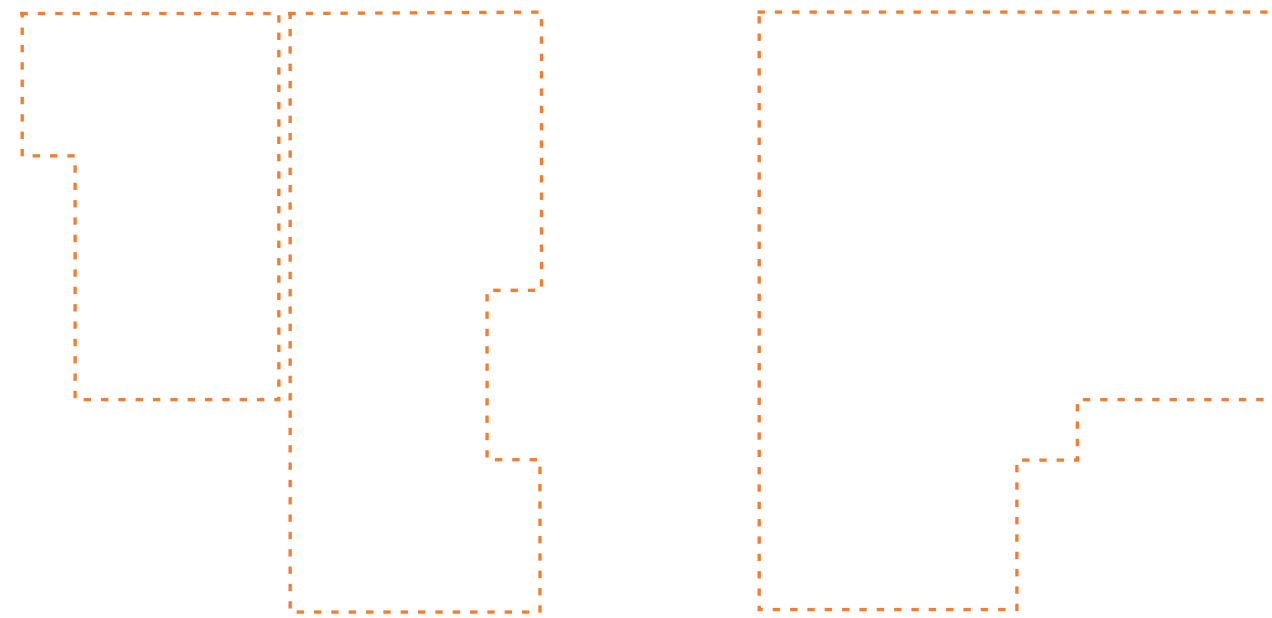
The new productive-function is *living with* the *live-dominated* residential unit. While maintaining the existing reproductive characteristic of post-war residences at any time of the day, more flexible working unit is integrated on material scale. This ensures rest of inhabitants to move more freely around the unit.



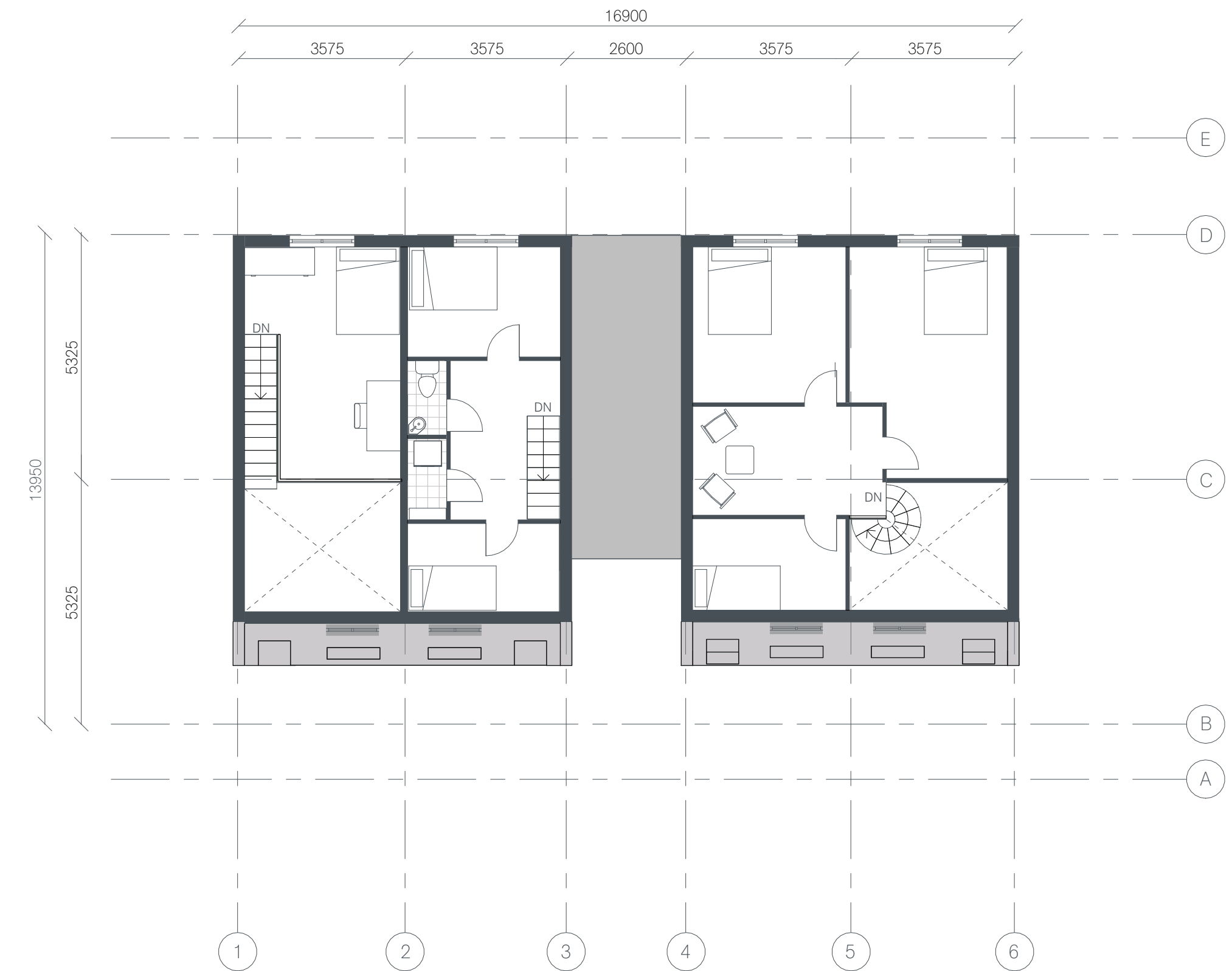


The optopping units have *adaptable* planning by taking *open building* concept. The concept offers the inhabitatns the opportunity to coordinate the infills by adapting various structural modifications depending on their lifestyle and life phases. The structural base can be divided into two different units when the size of the households shrinks.



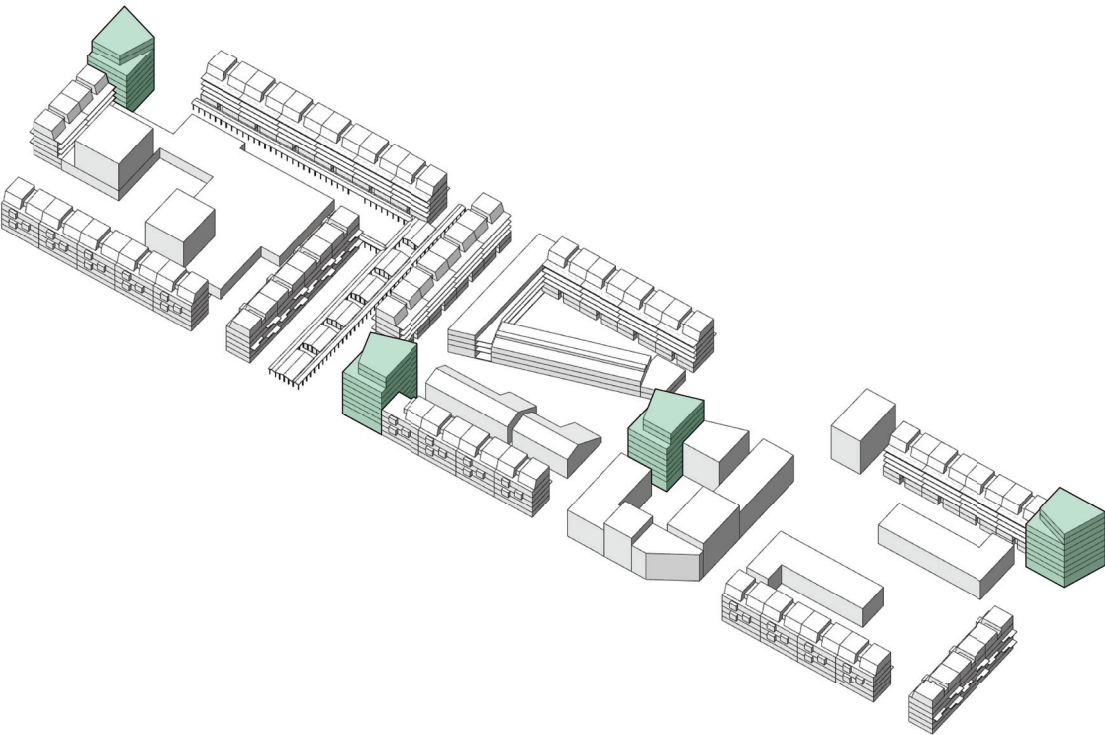


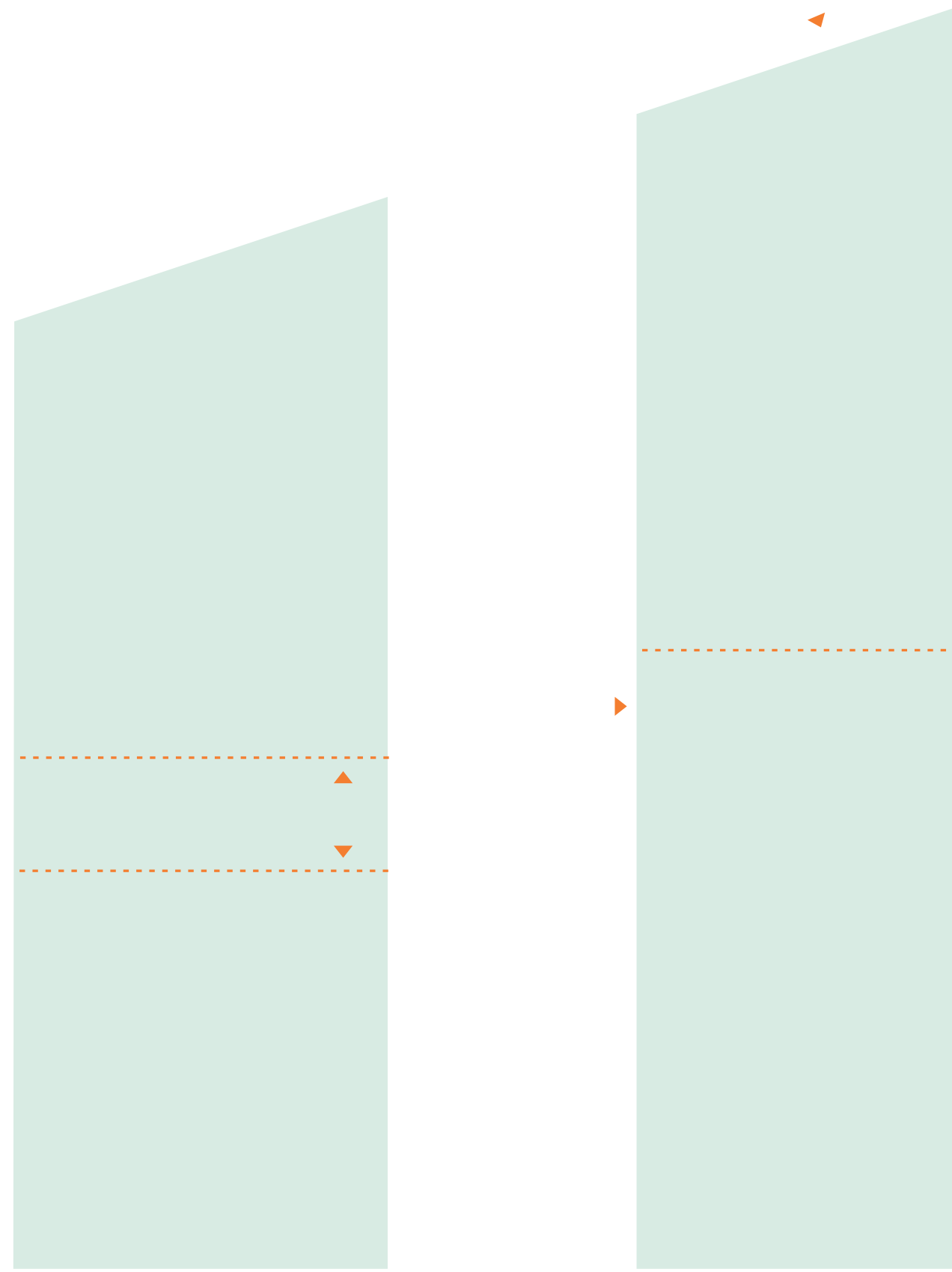
The *adaptable upper floor* can also be installed by the inhabitants. Depending on their needs, the floor can be added, modified, and demolished.



Corner

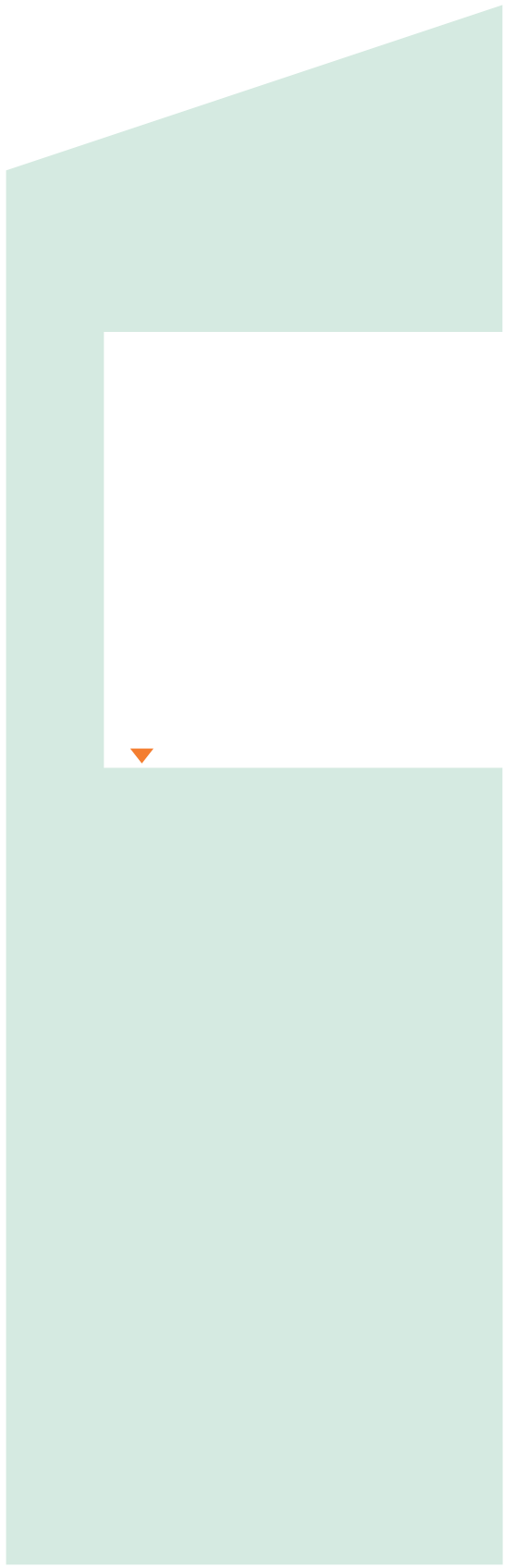
The position of the corner buildings act as pivotal points all over the site and surrounding neighborhoods. The position of the corner buildings diversify productive agenda and allow collective and public spaces for inhabitants to coexist.



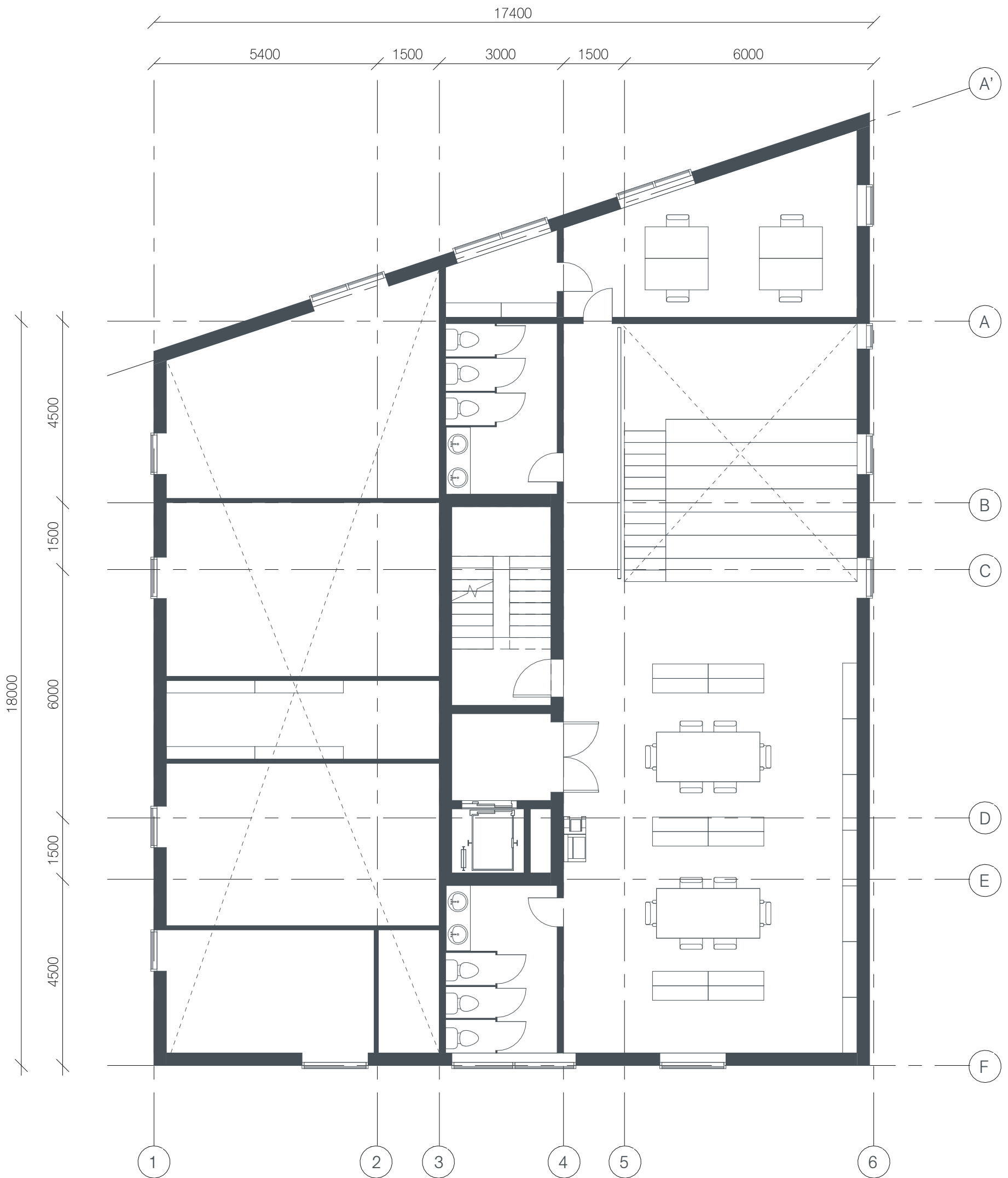


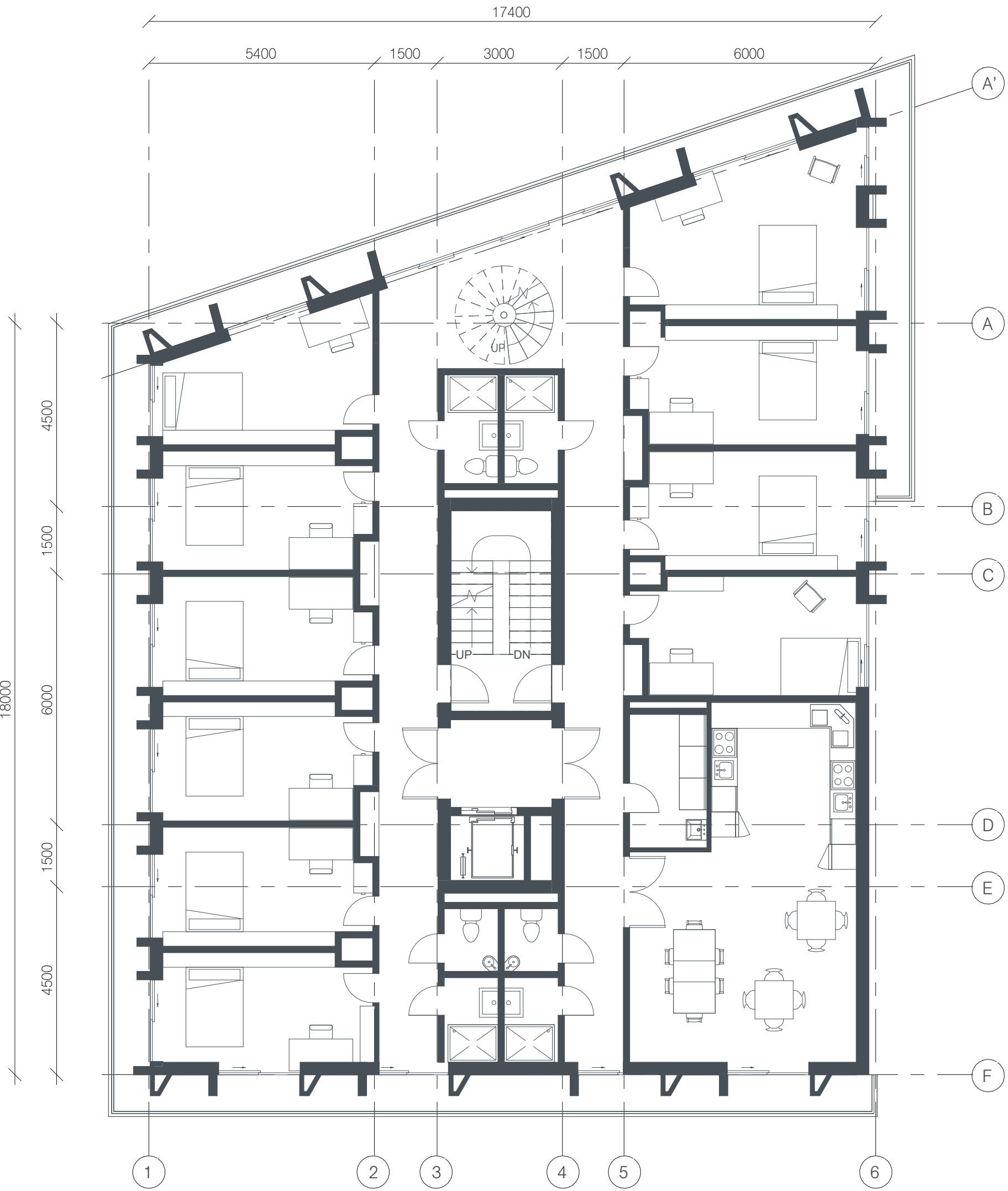
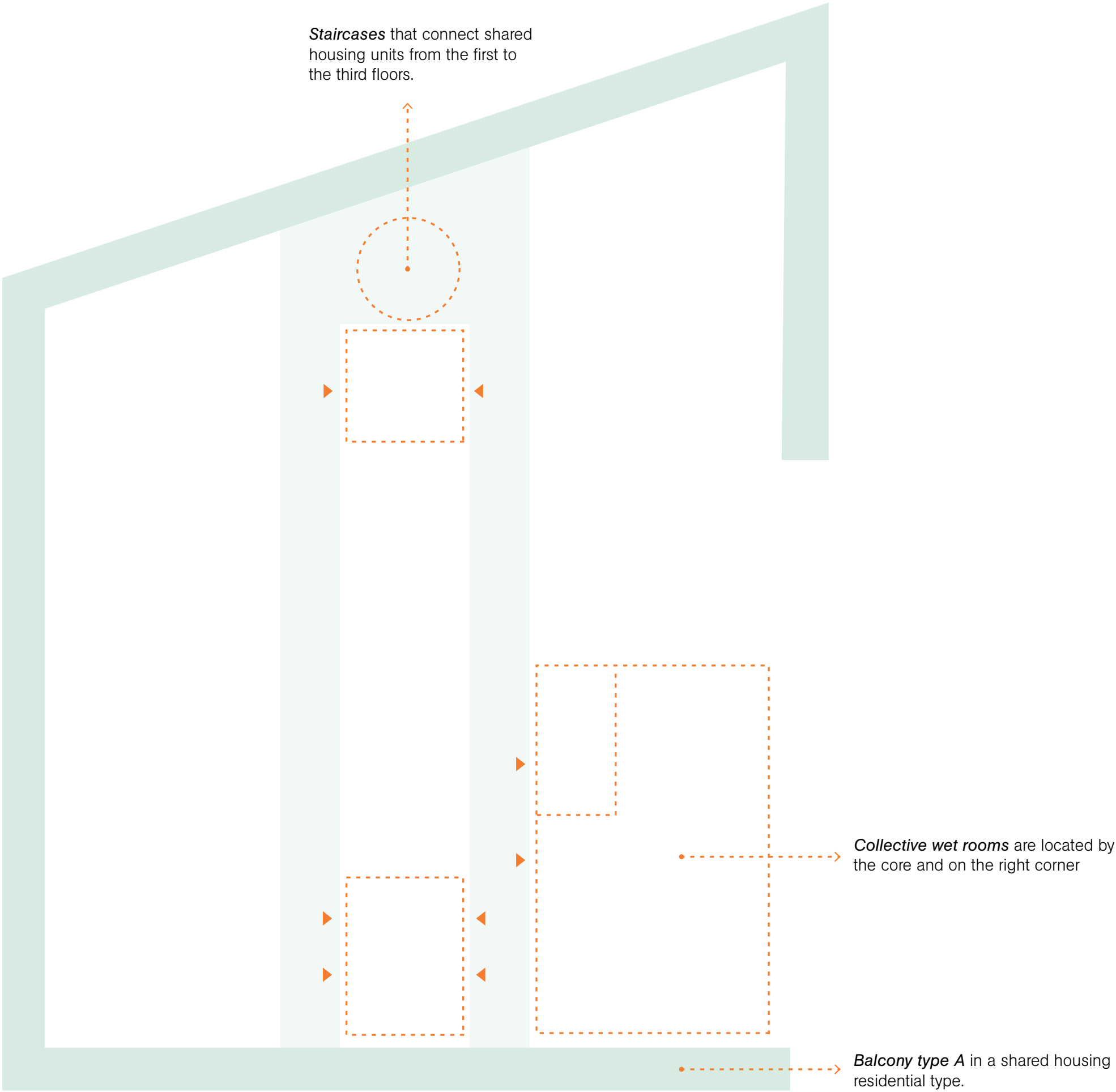
Ground floor of the corner building is dedicated to **public/collective functions**, which in this case a daycare facility. With the structural core at the center of the building, diverse functions can be inserted on both sides of the core, which is the reason there are several entrances from different directions. When the size of the facility needs to be shrink, it can be divided into two smaller units.

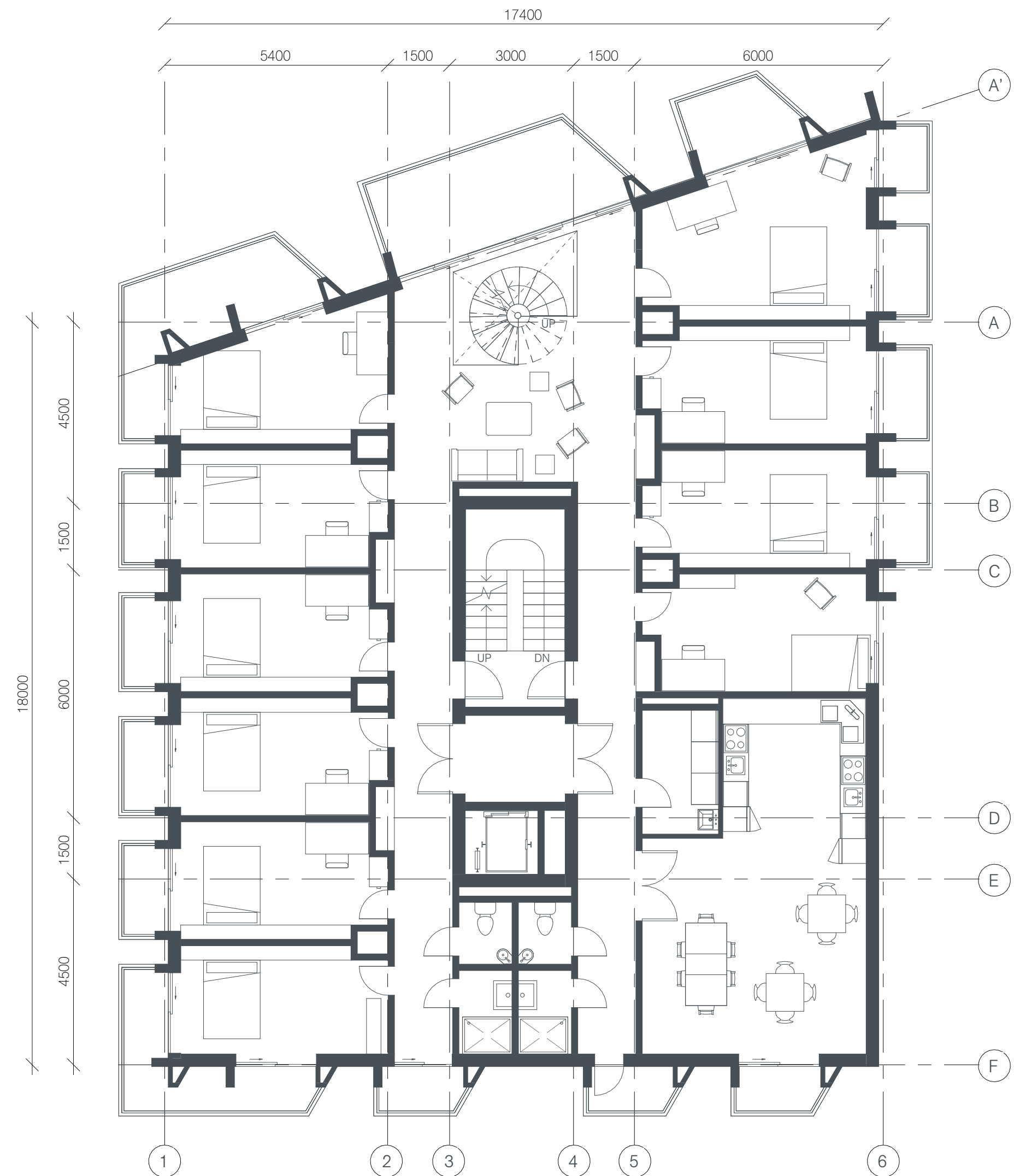
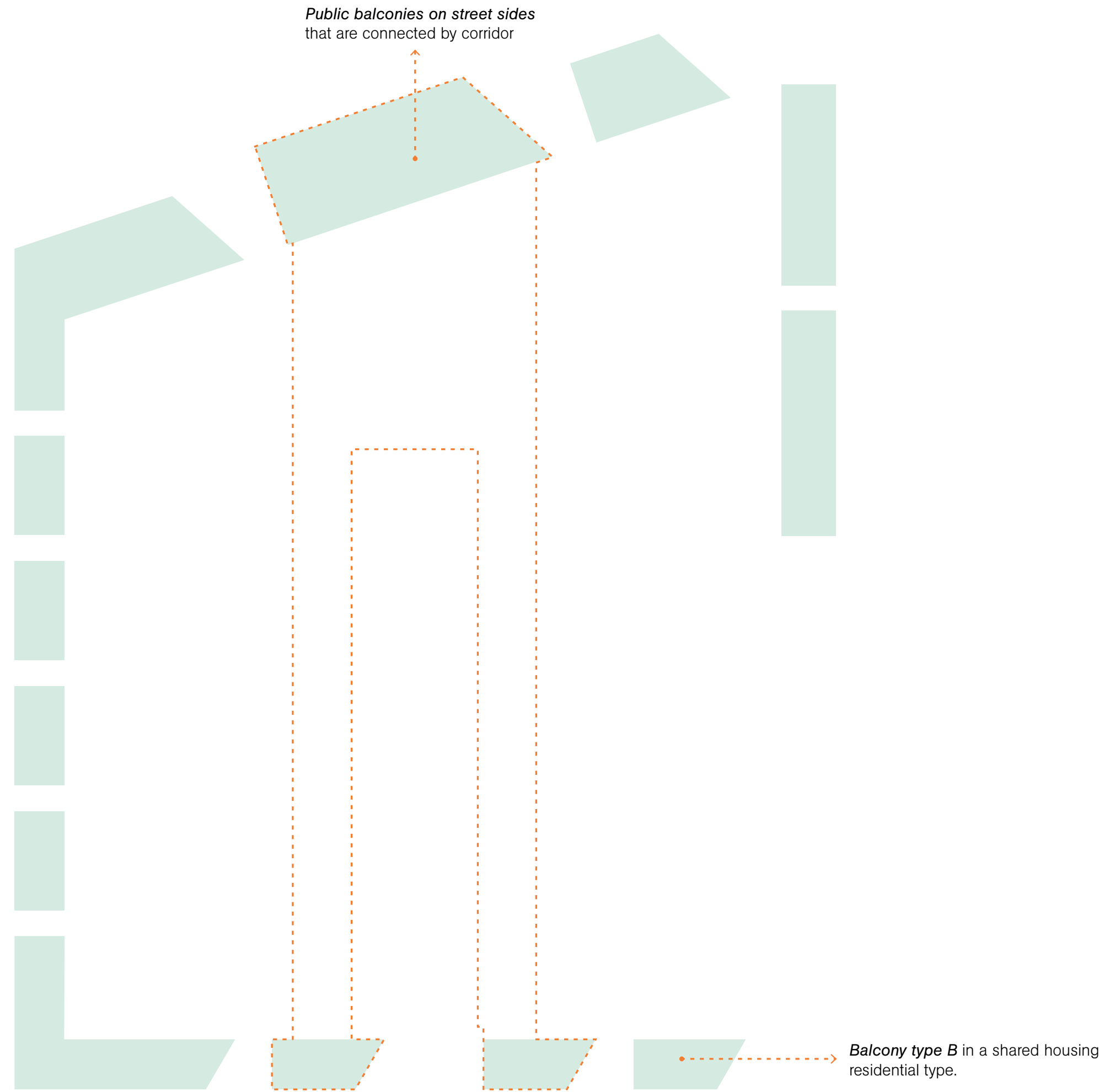




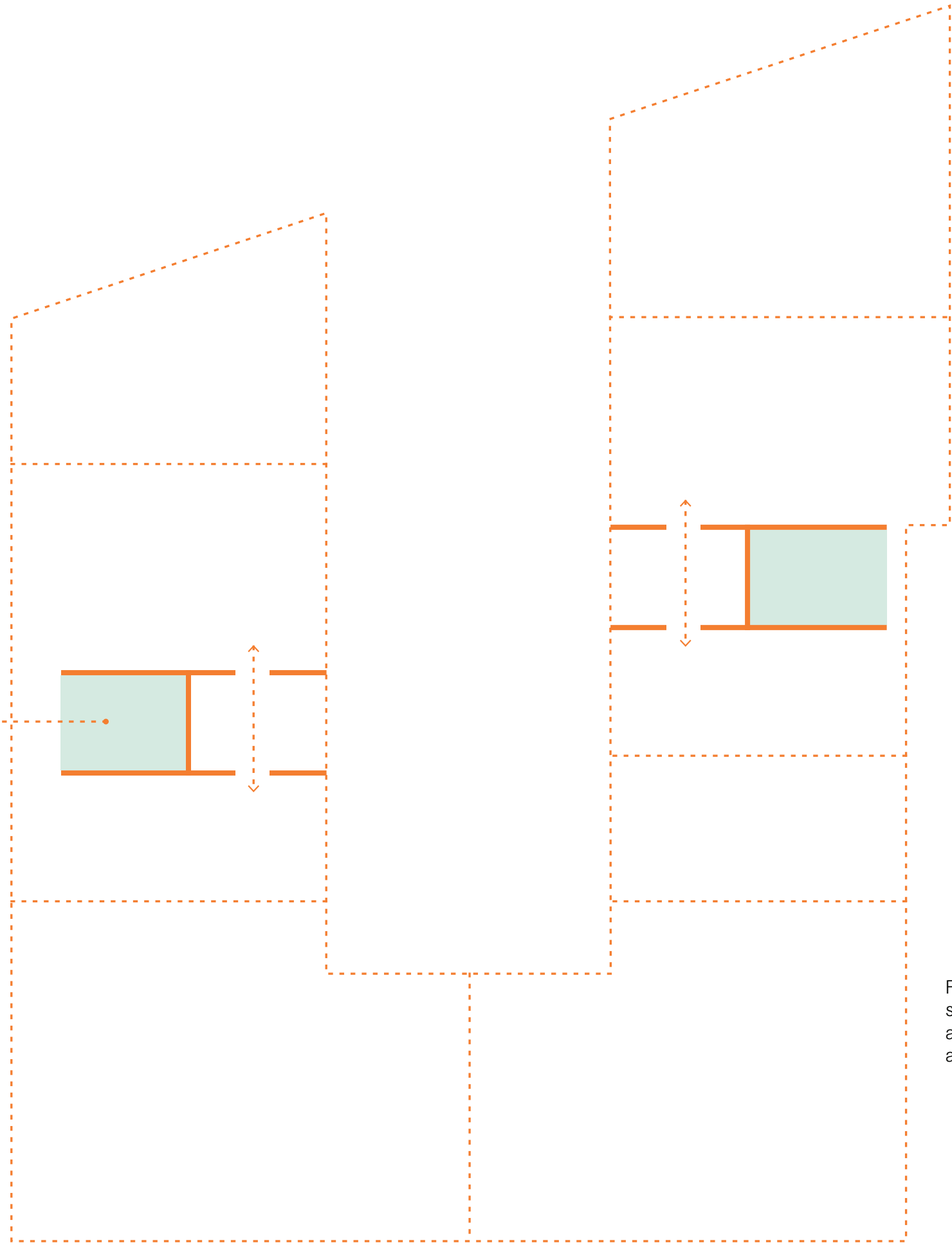
A collective working space and library
is located on the 0.5 level. The space is
connected to the open lecture hall.



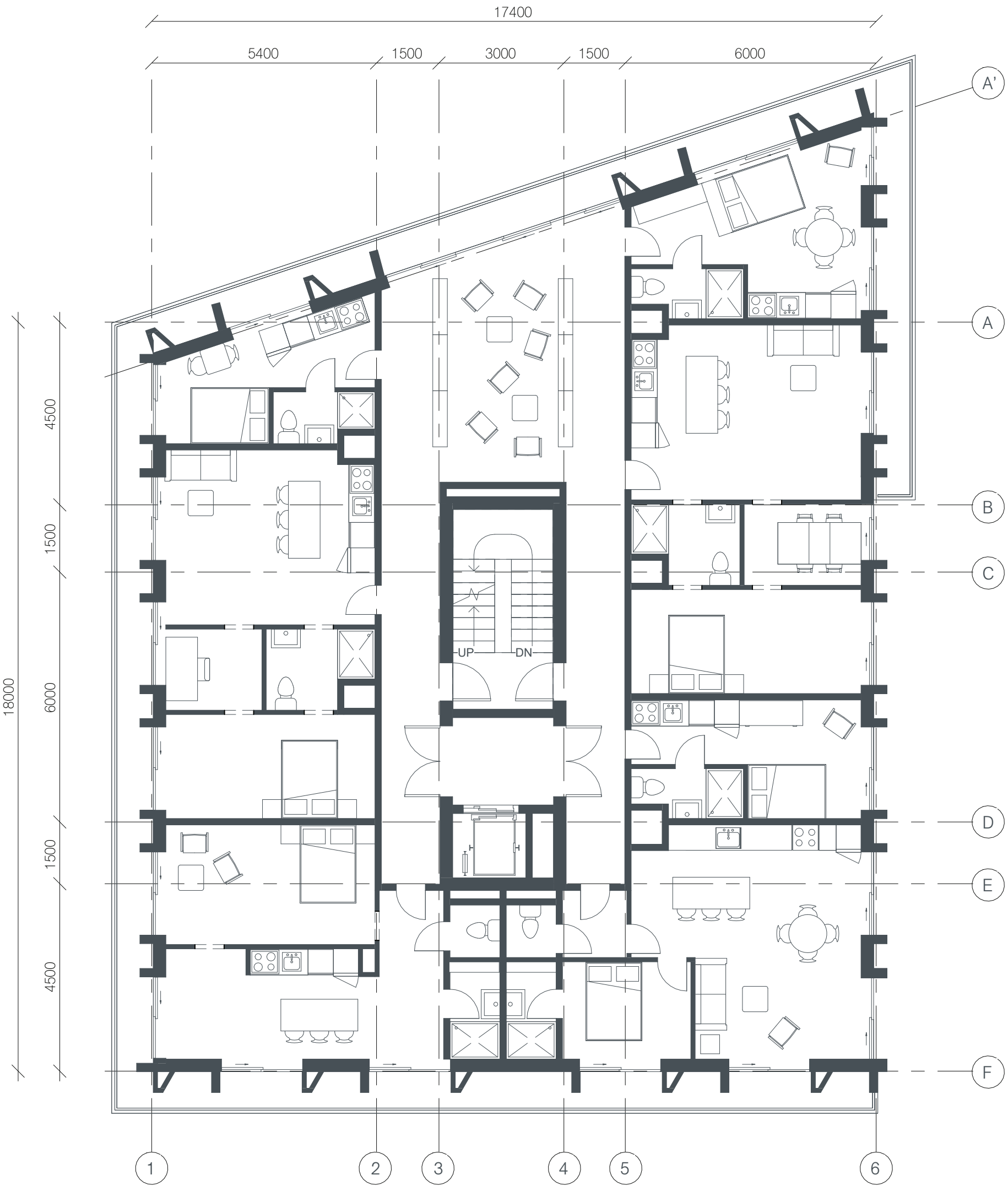




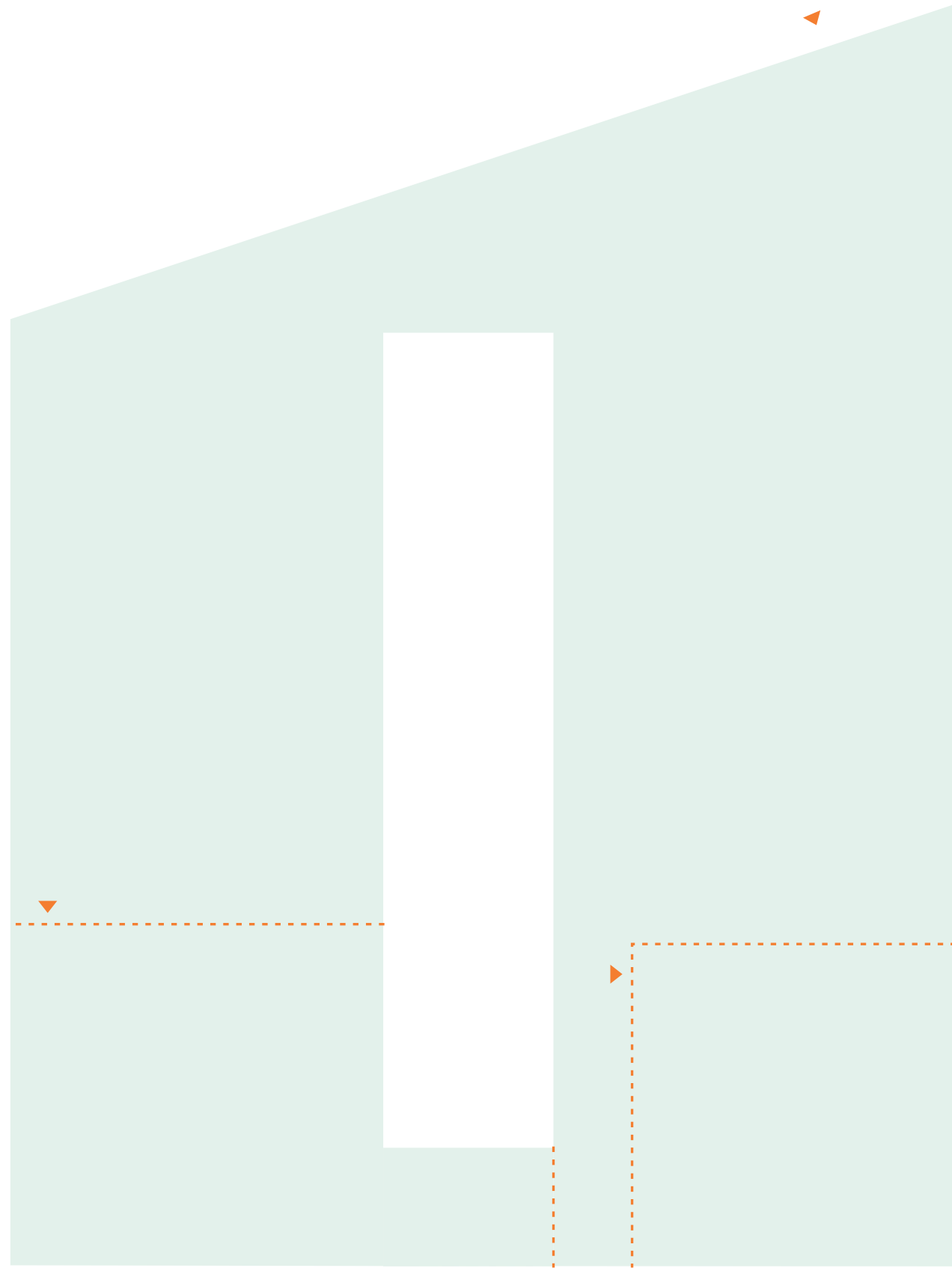
When the **productive-function-dedicated room** is activated and closed off for focus, the other inhabitant can still access from one end to the other end of the house without interupping thanks to the spatial arrangement.



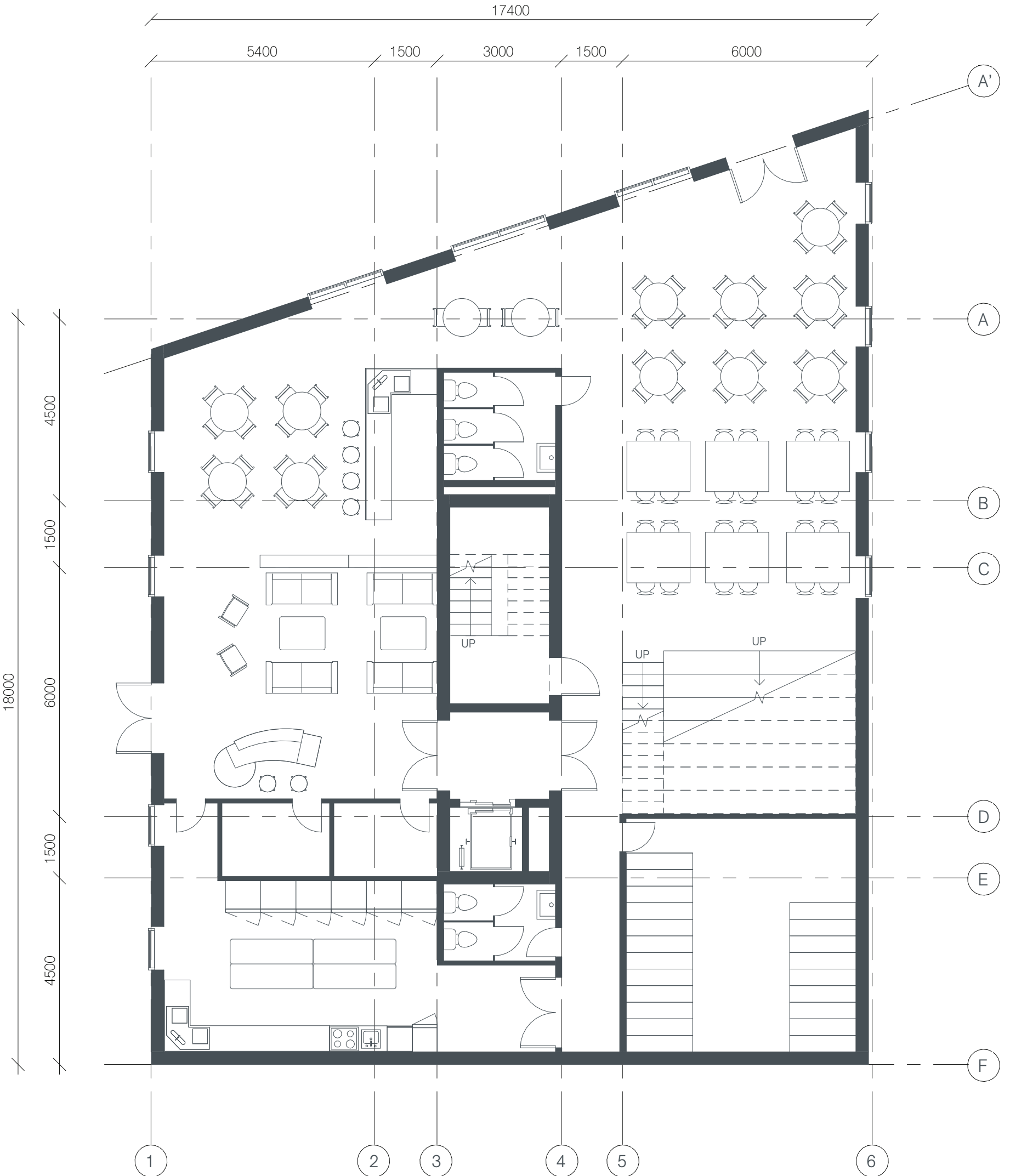
From the fourth floor, *apartments* for small-sized households and *studios* are mixed on each floor. There are four apartments and three studios.



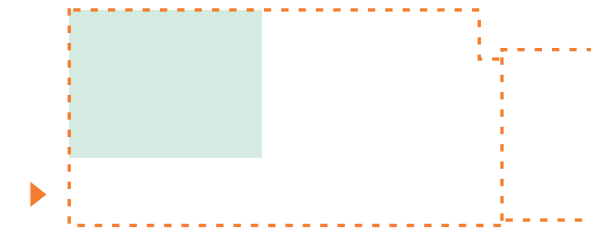
New
Small apartments and Studio
1:100



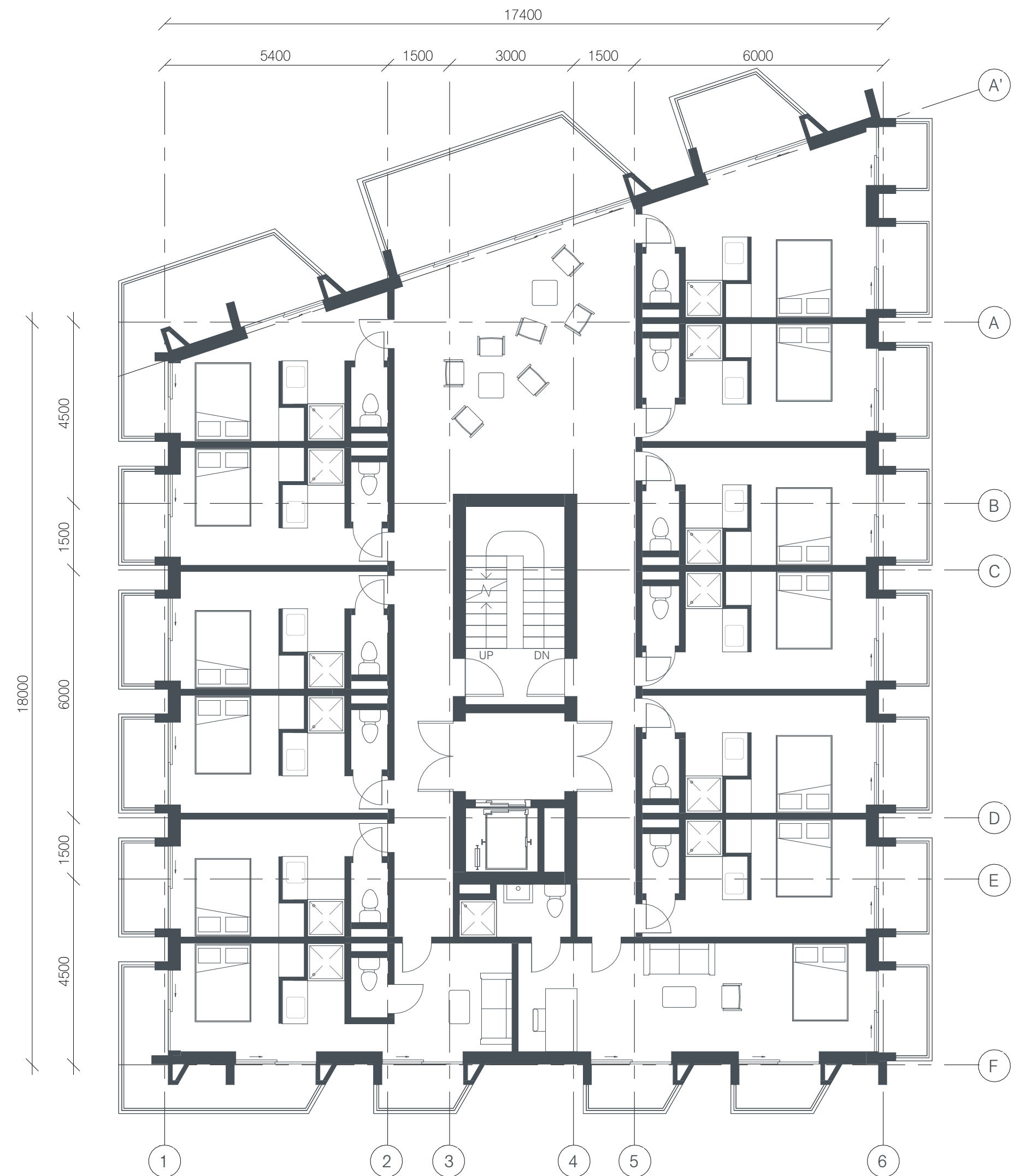
As said previously, the ground floor of the corner building is intended to be adaptable depending on the various public/collective function. Different from the daycare center, *hotel-apartments* have equipped lounge, bed and breakfast, lobby, cafe, bar, and a public lecture/concert hall on more than half of the floor area. The open plan without a wall capacitates more *flexible* uses based on *time-zoning*.



New
Hotel-apartments, Ground Floor
1:100

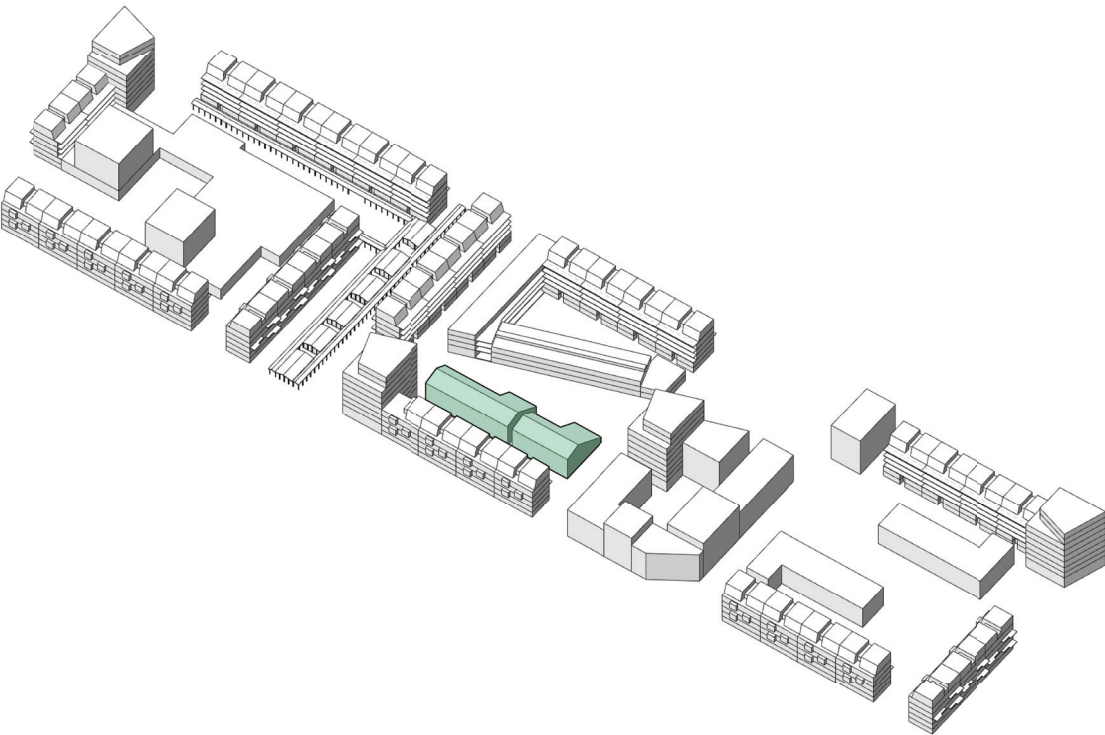


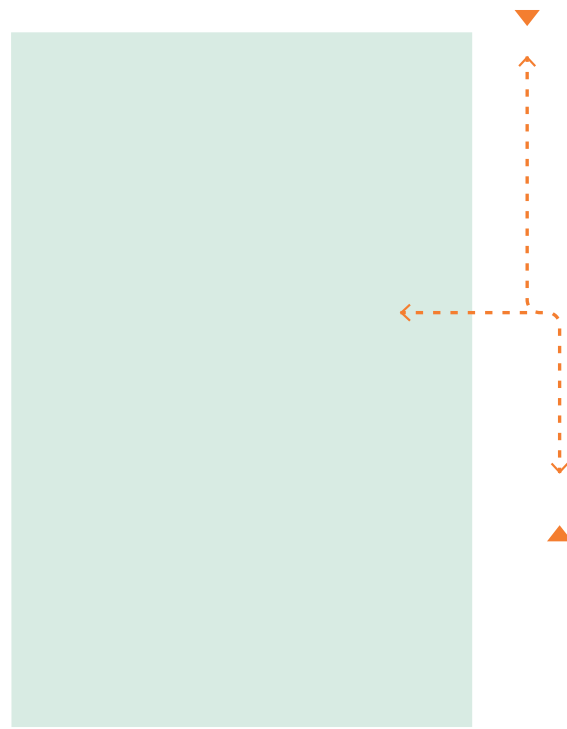
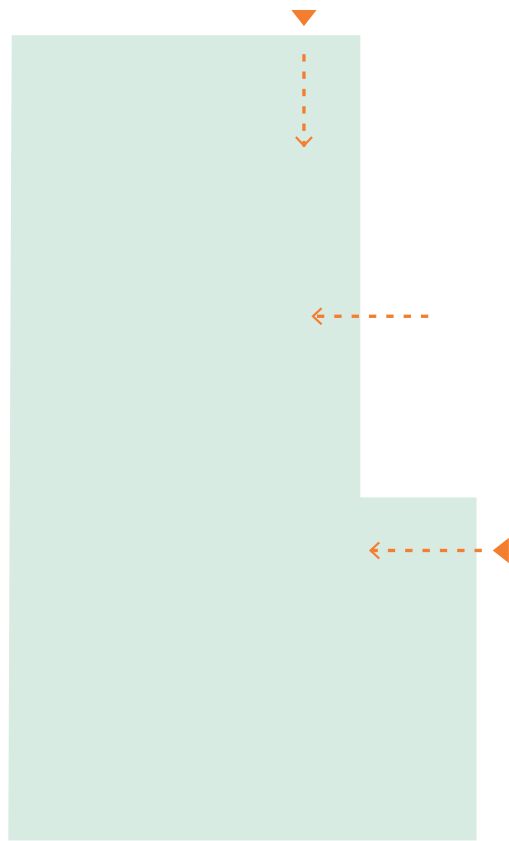
A hotel-apartments unit is composed of a toilet and a shower with a small balcony so that the resident can also have an access to the outside.



Productive Share

The productive building aims to minimize the private residential unit and maximize more public and productive spaces. This exaggerate the characteristic of 'shared' residences because not only the inhabitants share 'living-functioning' facilities such as kitchen and livingroom, but also they share knowledge and skills such as workshop, lecture, and self-making activities.





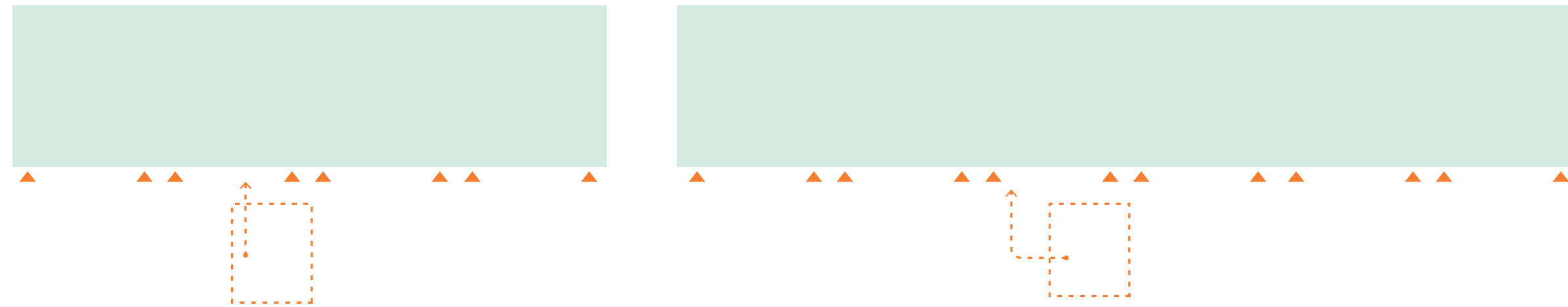
Self-making facilities are equipped in the productive-function-dedicated spaces. This facility is located nearby (and adjacent) to residential units. In this case, **co-housing units with shared facilities** are located in the same building.



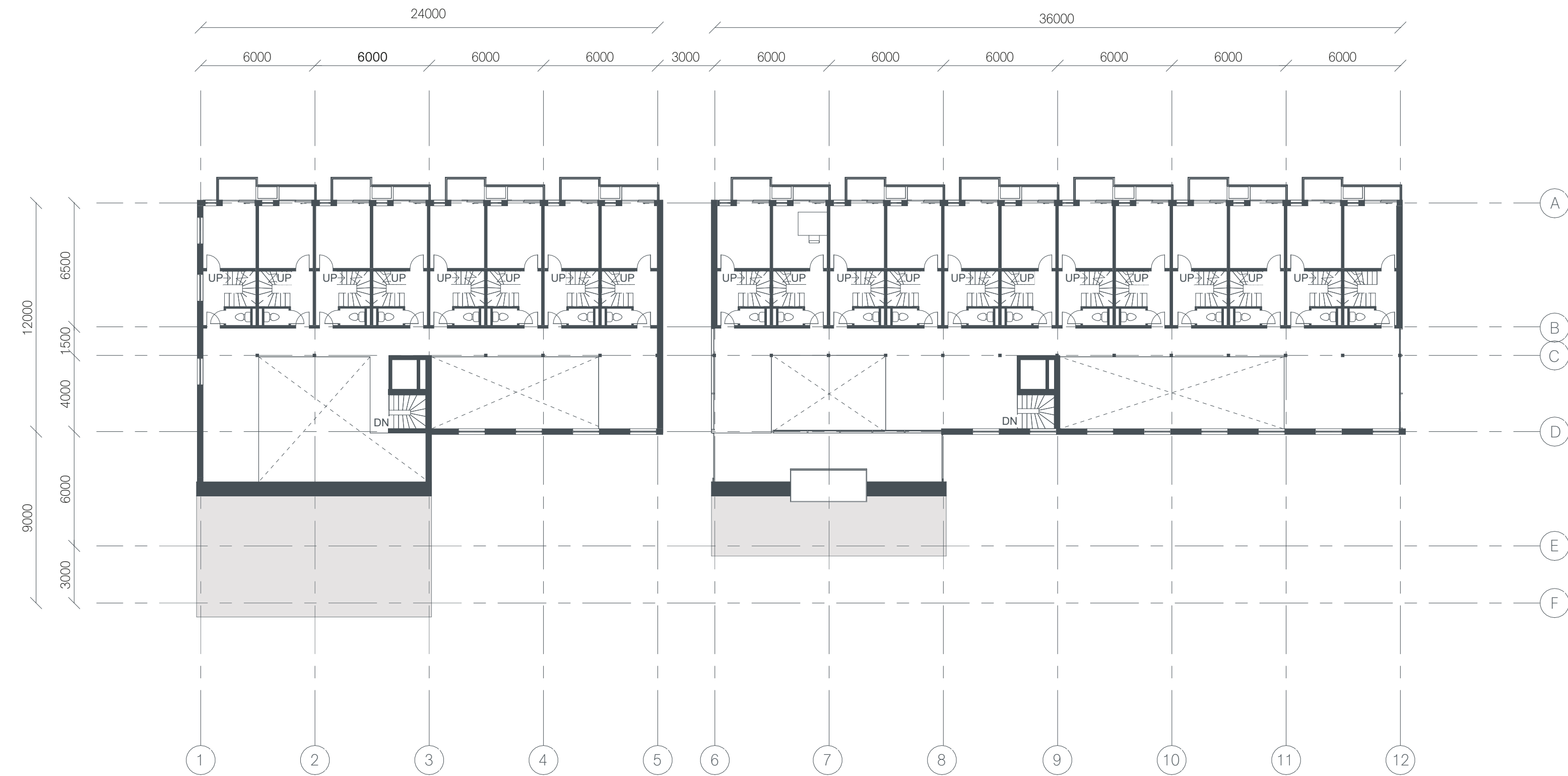


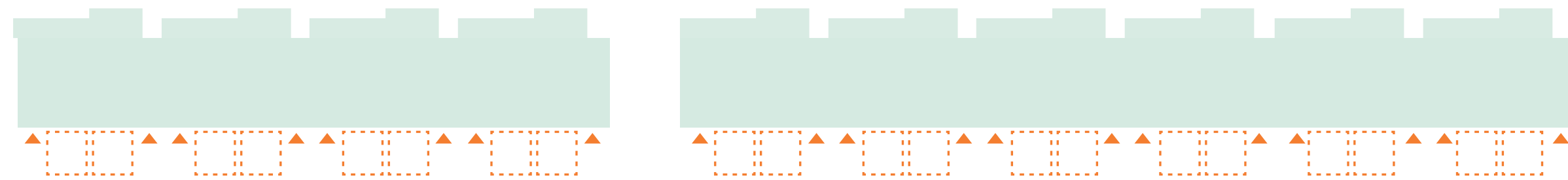
More public functioning spaces are **double-floor high** in case of moving bigger equipments in the self-making spaces or achieving better connectivity to the individual residential units on the upper floor.



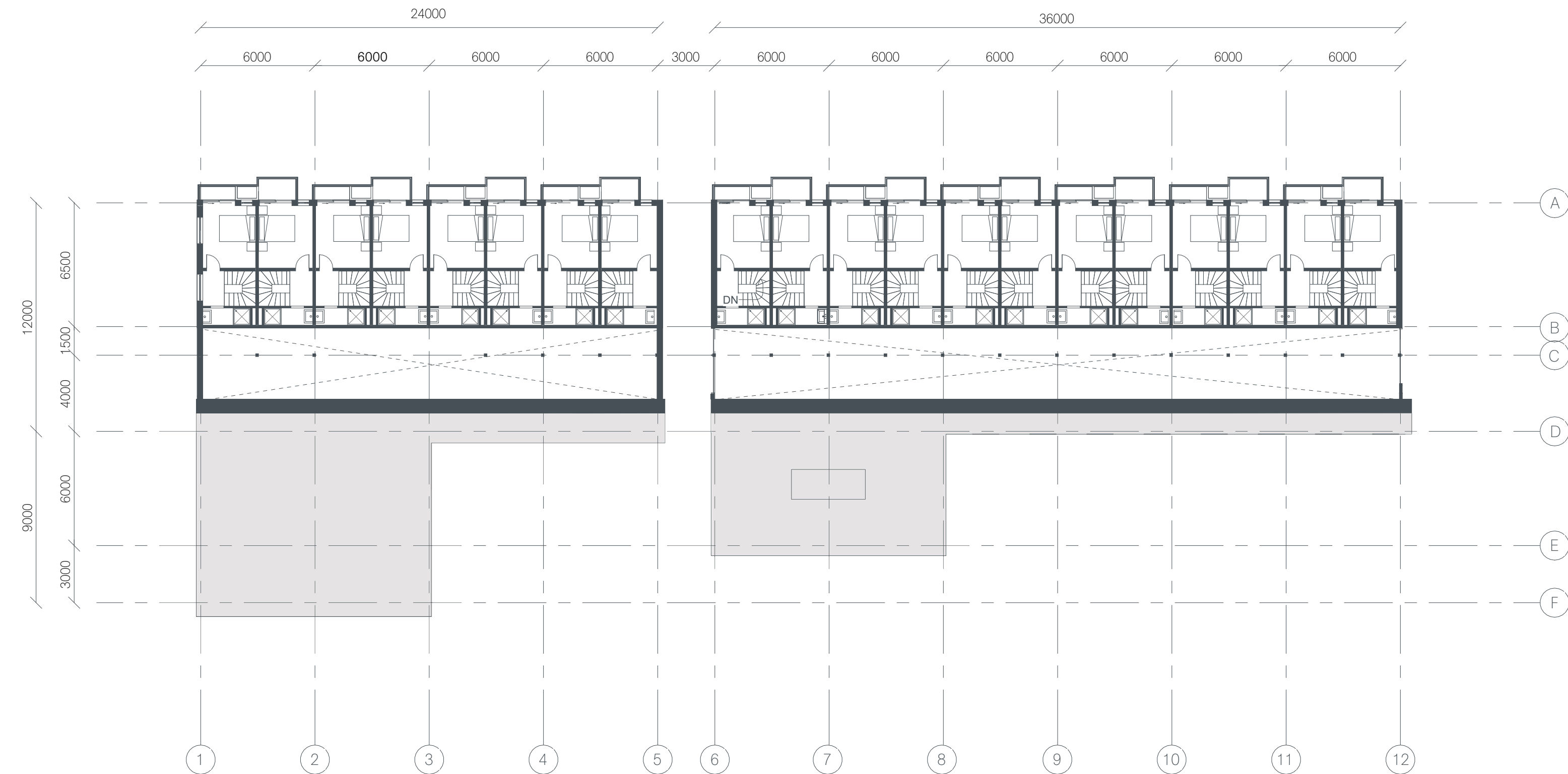


The residential upper levels are composed of double-floor units where the *productive-function-dominated spaces are located at the lower level*, and the live-function-dominated spaces are at the upper level. For easier accessibility for both inhabitants and visitors, the staircases and elevators are in the middle of the buildings.



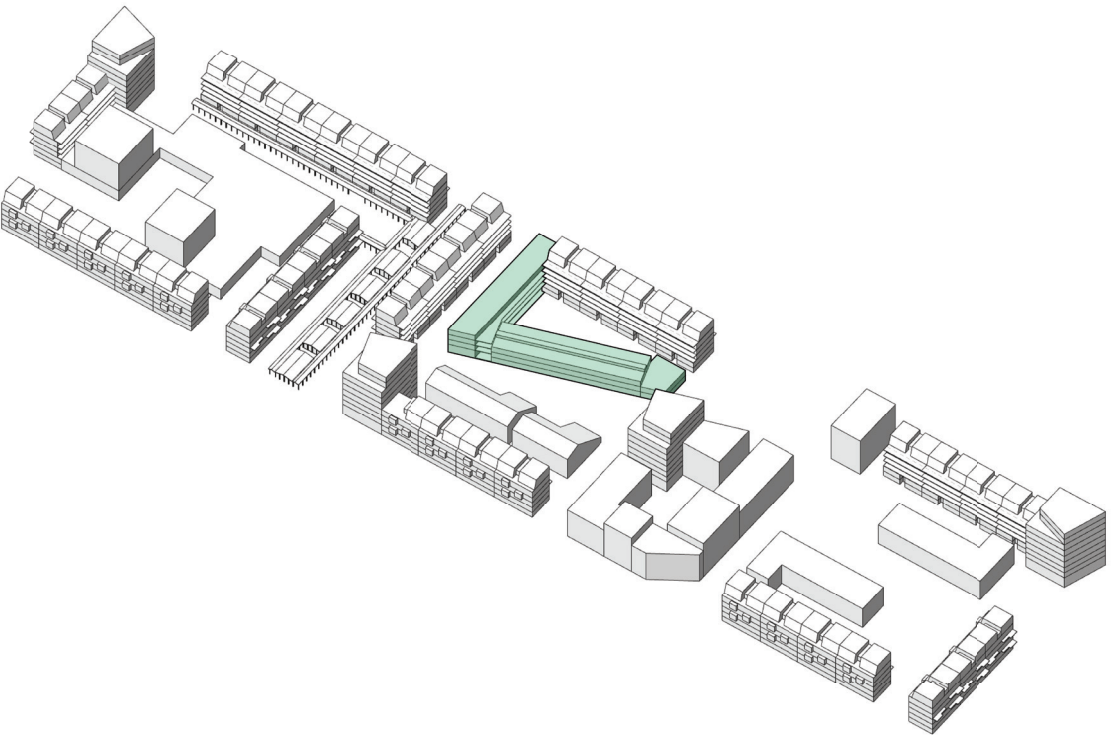


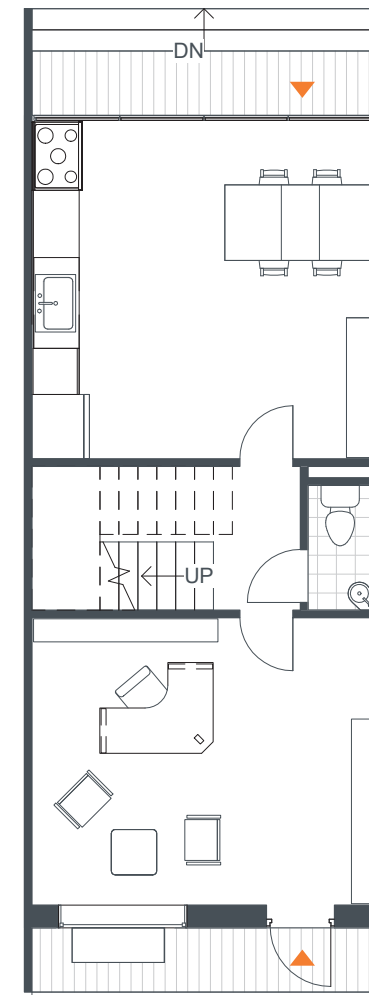
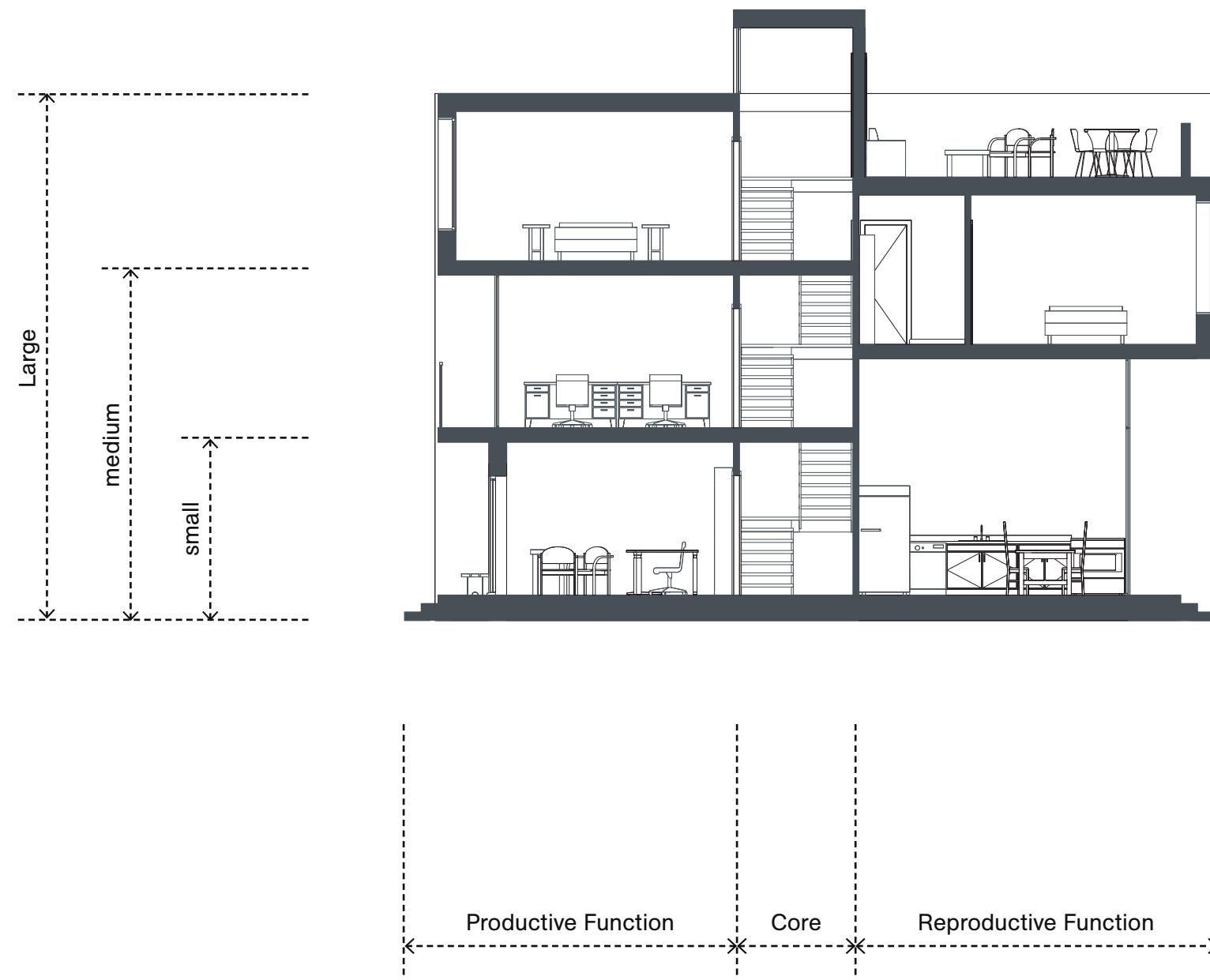
The most upper level comprises the private residential units that are *live-funtion-dominated*. The private units can be only accessed via the private cores in each unit.



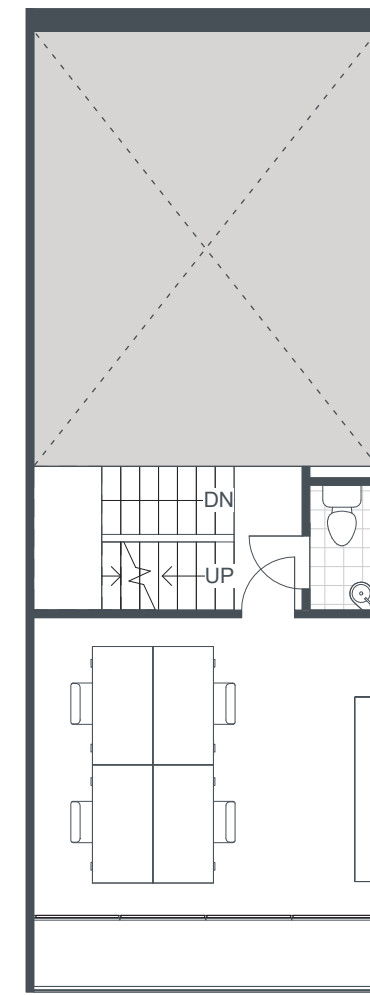
Courtyard

The courtyard becomes smaller and cozier as new buildings and productive programs have substituted the areas of the origial existing courtyard. While the entire site has become more public, open, permeable, and productive, the morphology of the courtyard type keeps the residence private.

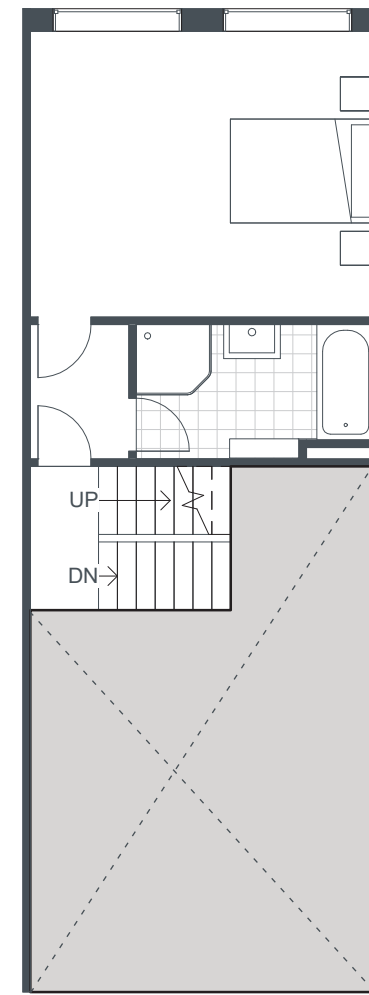




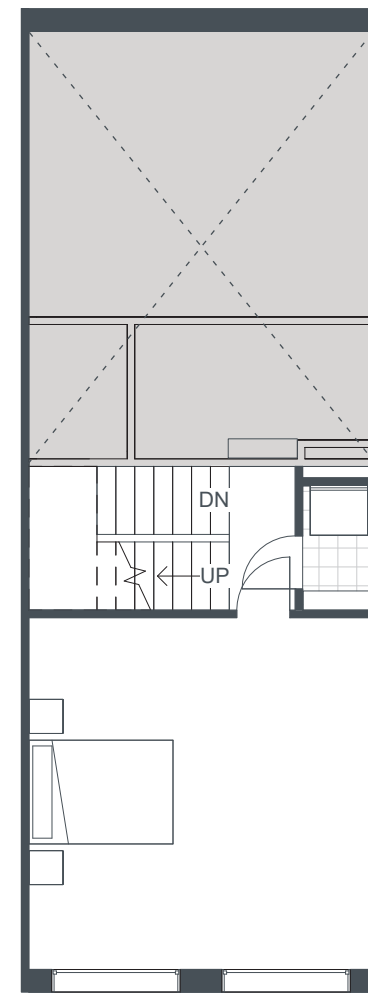
Level 0



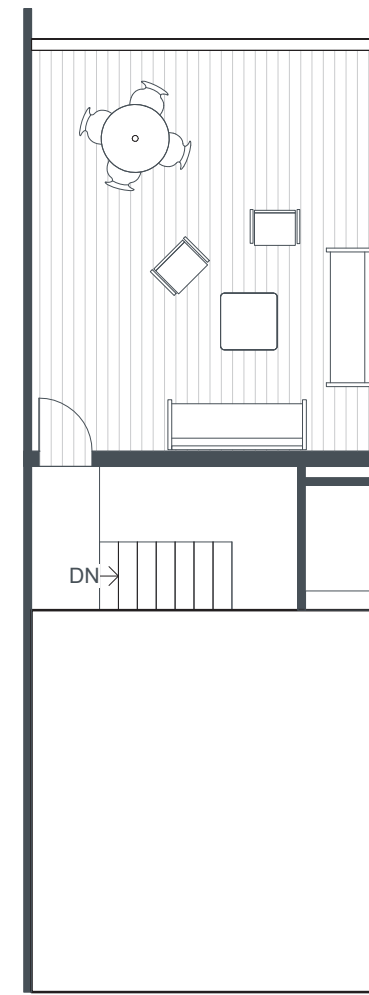
Level 1



Level 1.5

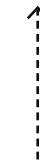


Level 2

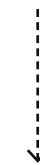


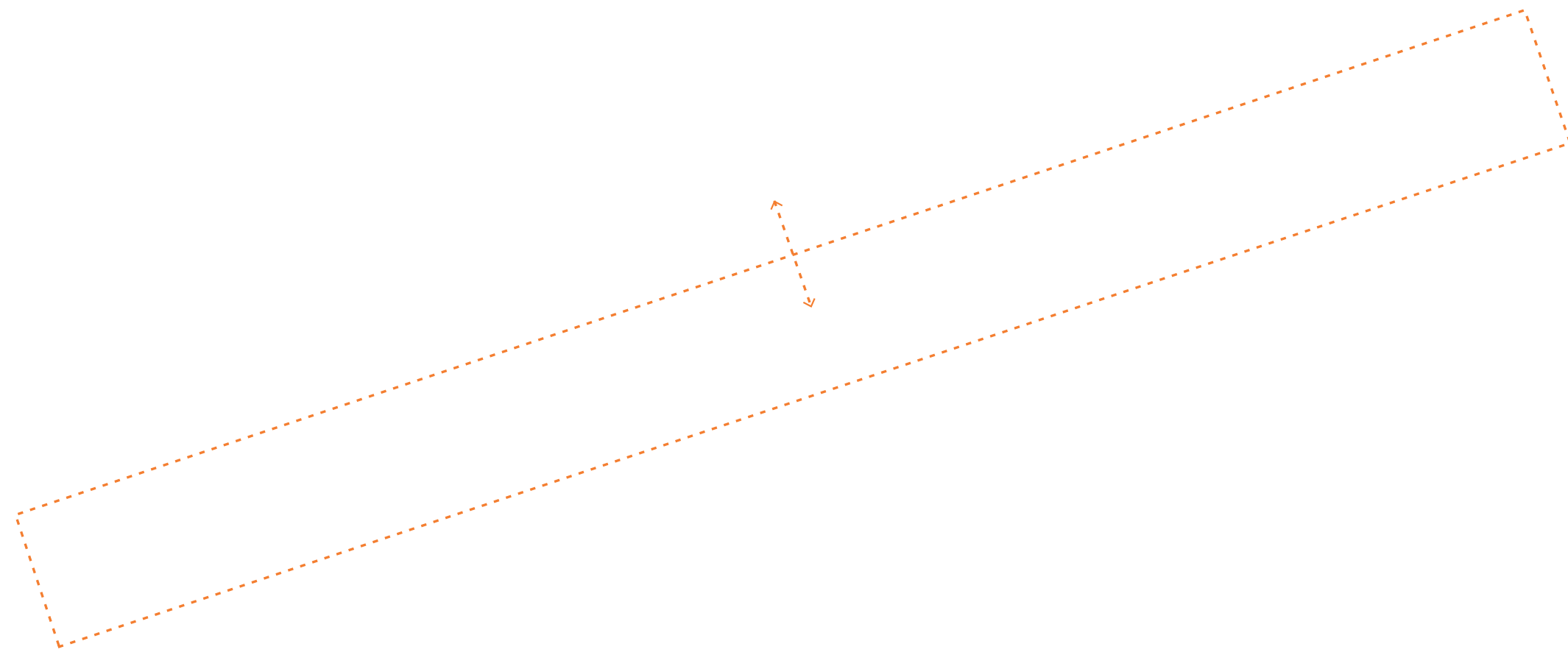
Level 2.5

Live function dominated

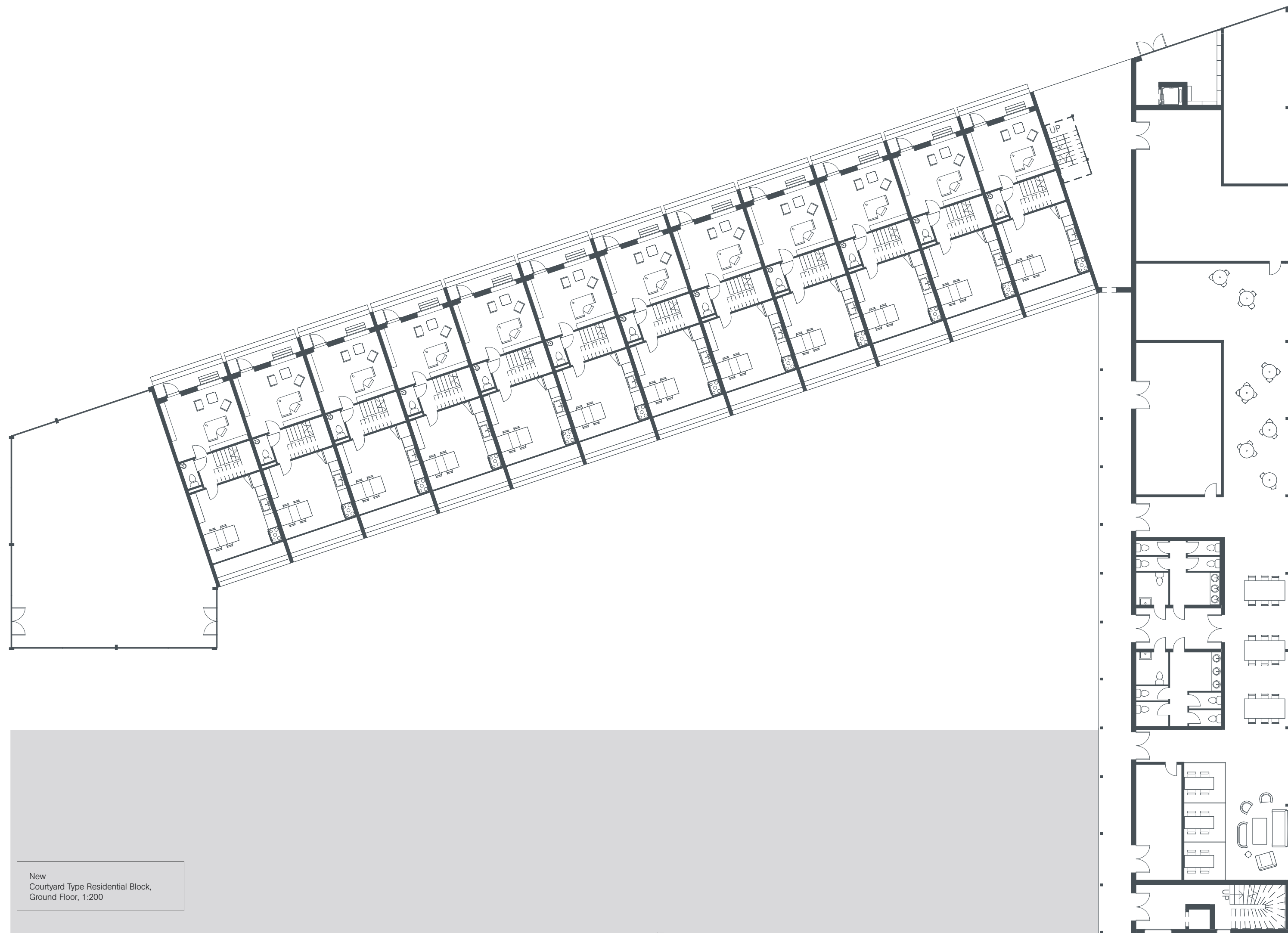
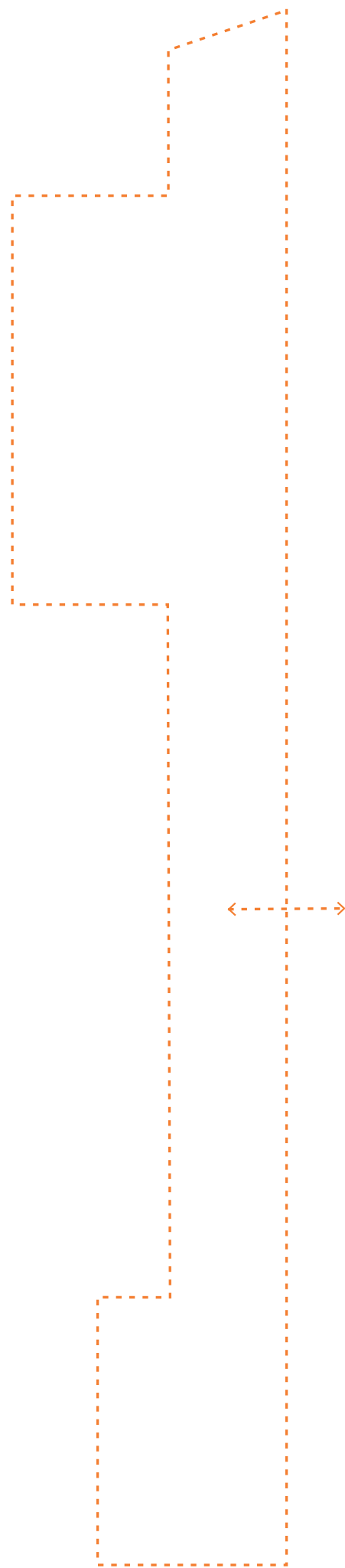


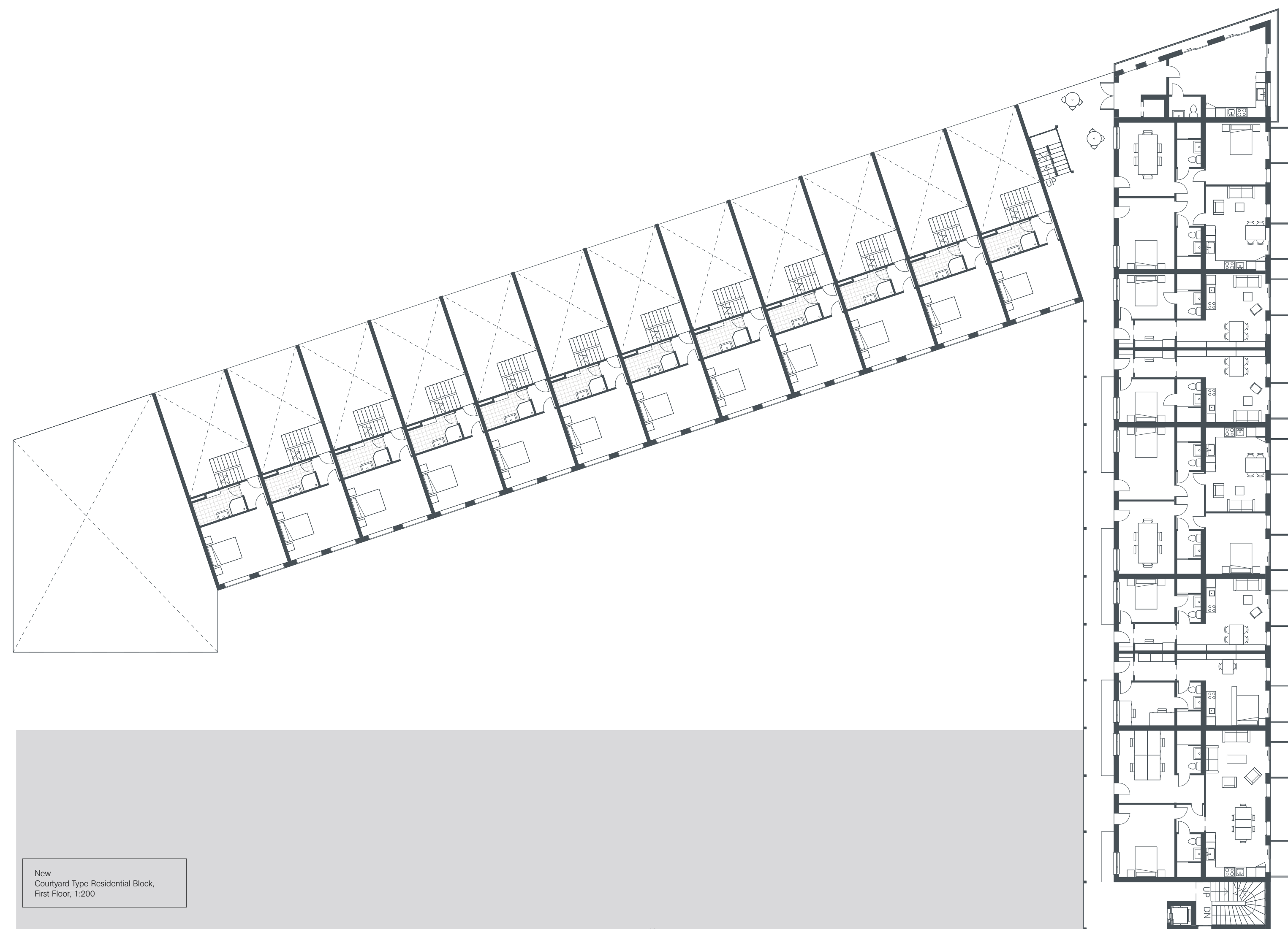
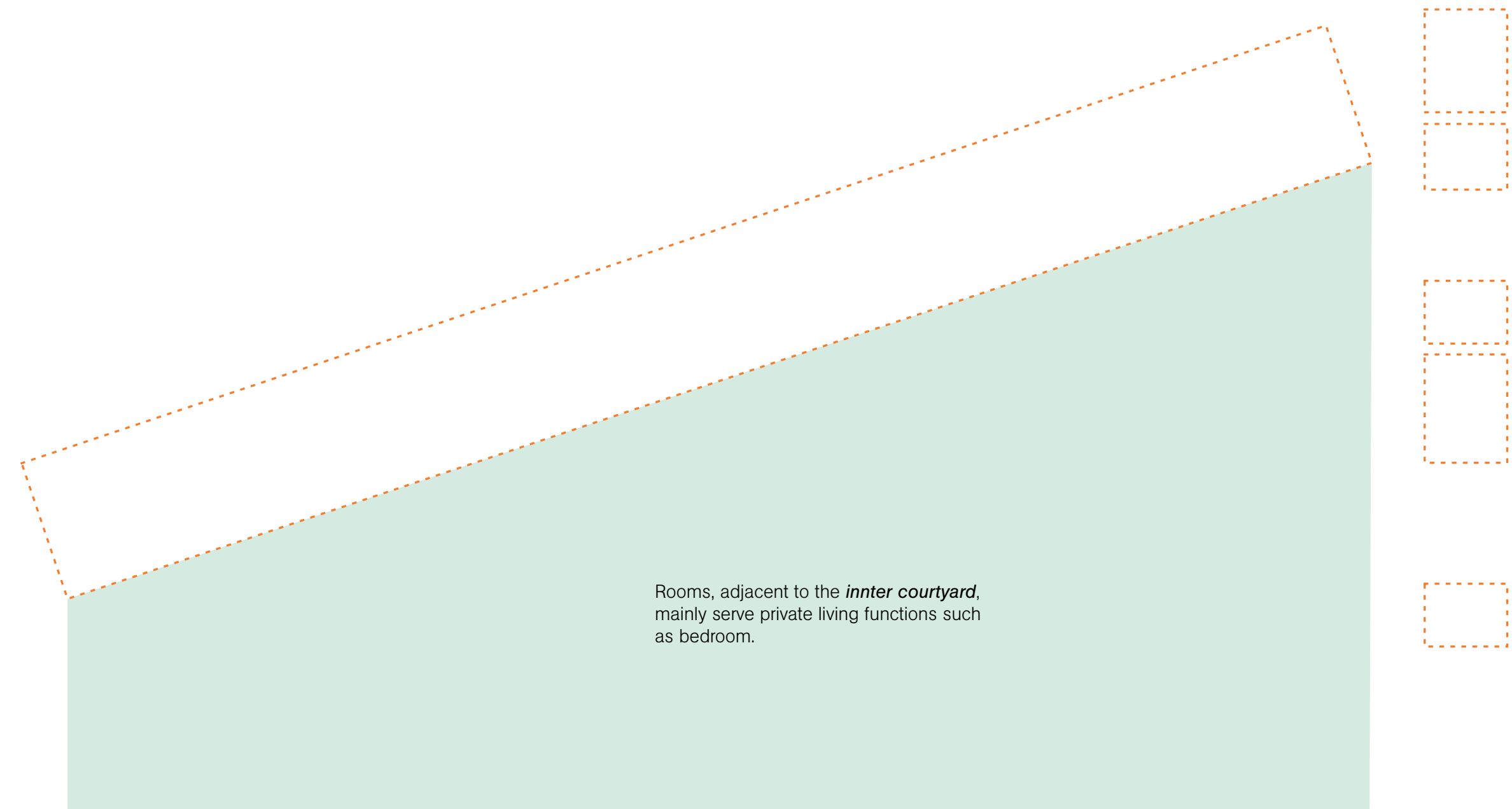
Work function dominated



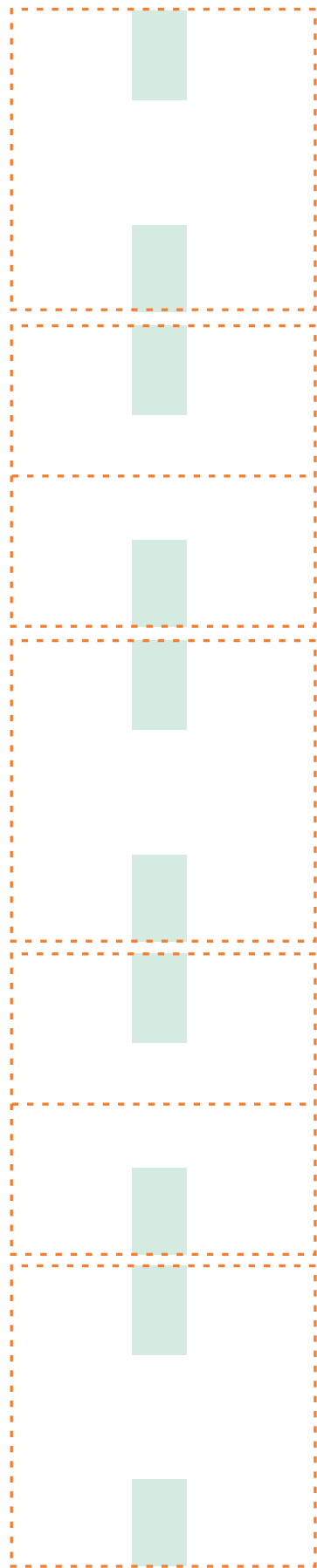


Rooms, adjacent to the *public streets*,
serve public productive functions such as
an office and a co-working space.

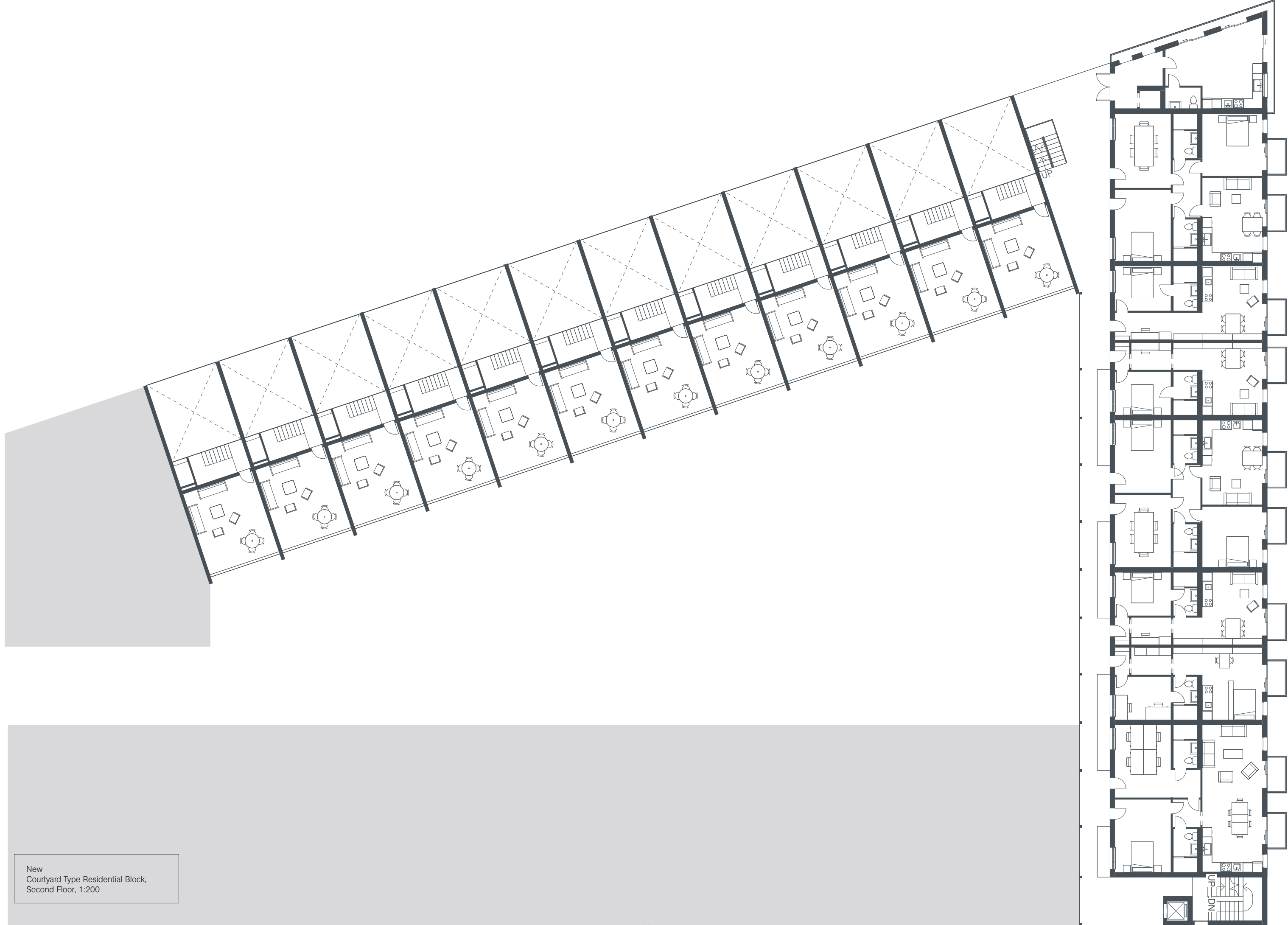




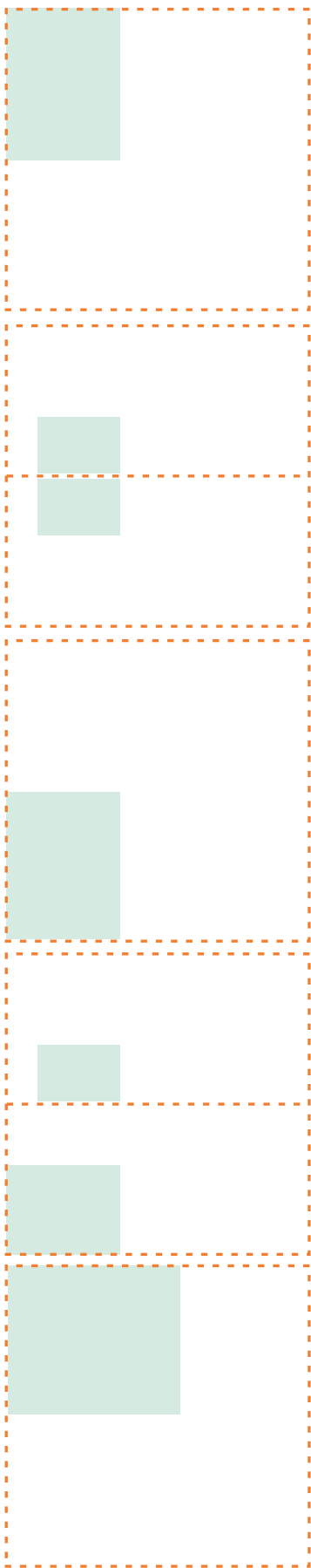
The residential units are designed based on the open building concept, which advocates a ***physical division*** of building components based on different life cycles. Each unit can be divided into two where wet rooms are placed in the middle.



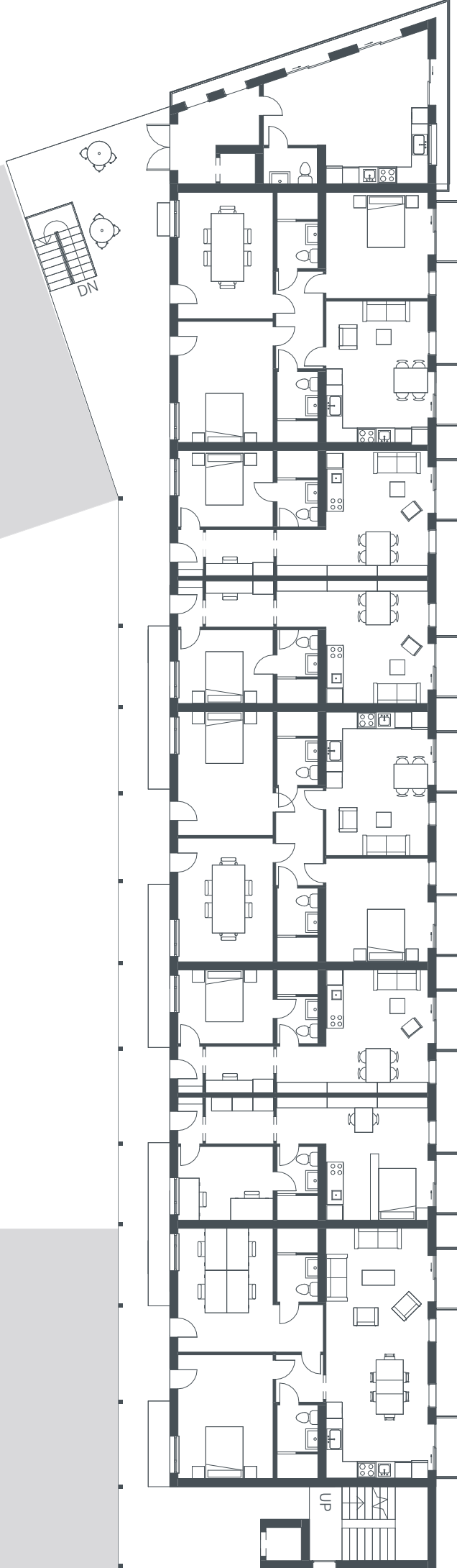
New
Courtyard Type Residential Block,
Second Floor, 1:200



Within the given physical structure, inhabitants flexibly arrange spatial arrangements. some have a big *productive* working rooms, and others have made a small part of a working room at the hall way towards the entrance.

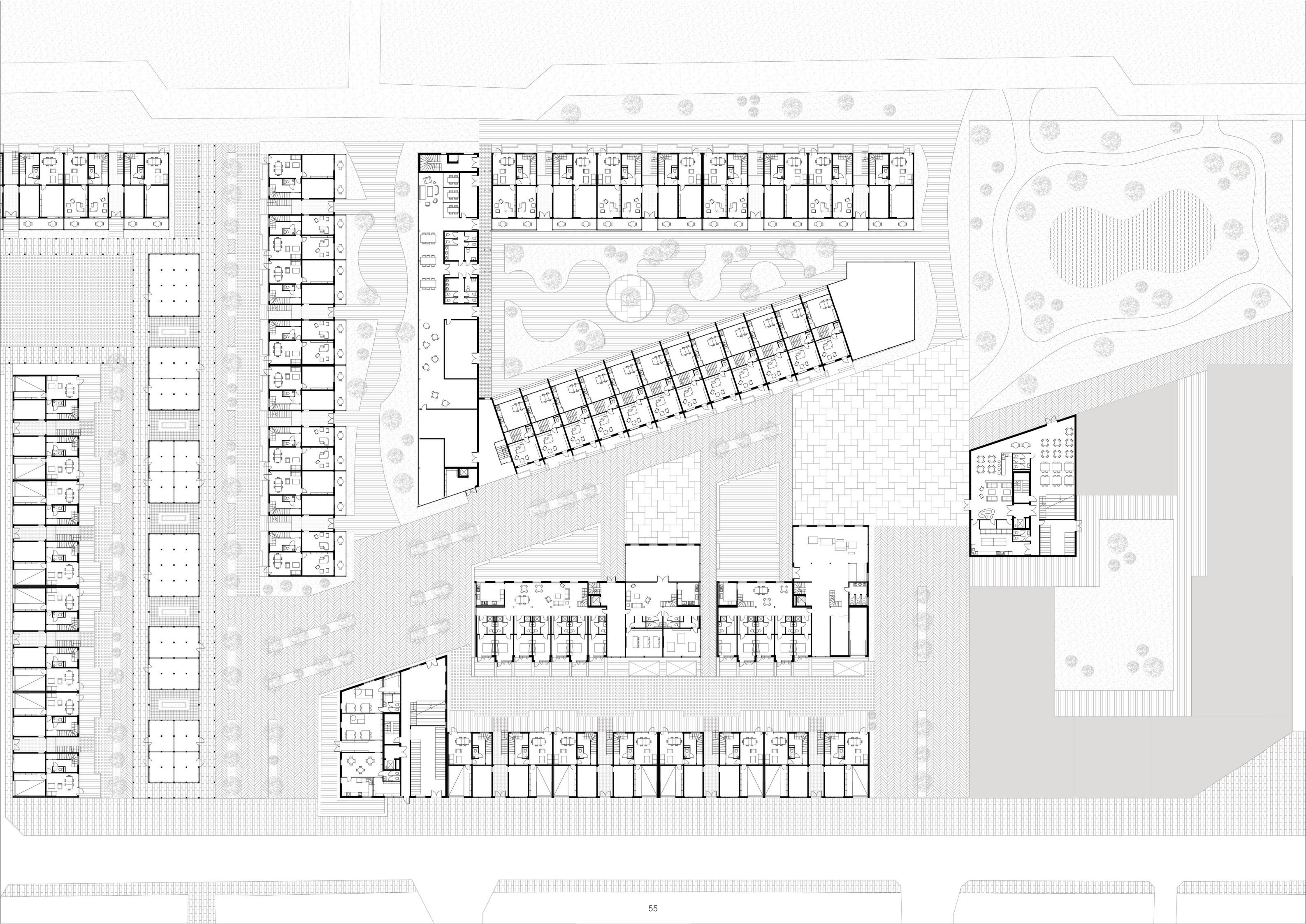


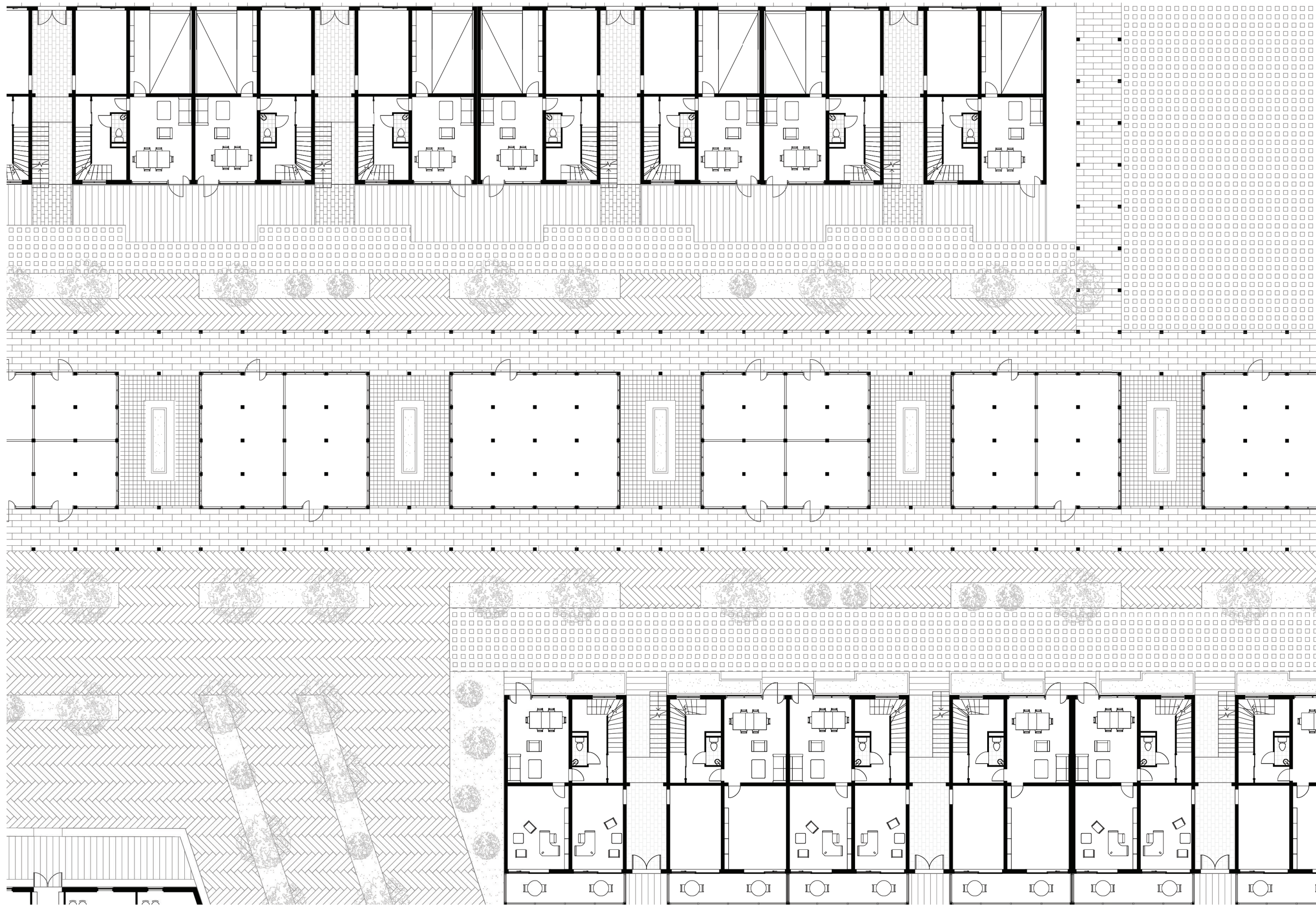
New
Courtyard Type Residential Block,
Third Floor, 1:200



In-Between Spaces

The clusters and corner buildings have diversified the productive agenda of the site. The new 'in-between' spaces are consequently created by the newly added buildings. The landscape on neighborhood scale also reflect the introduction of the productive scheme by having various programs and landscape elements on site.





Existing Residential Building
with Office Garden

Pedestrian Street

Soft Green Barrier

Canopy

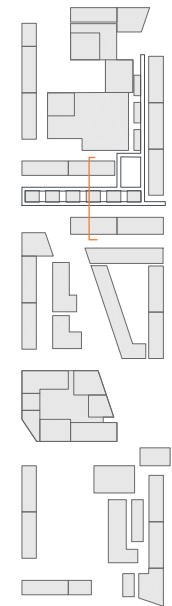
Shops

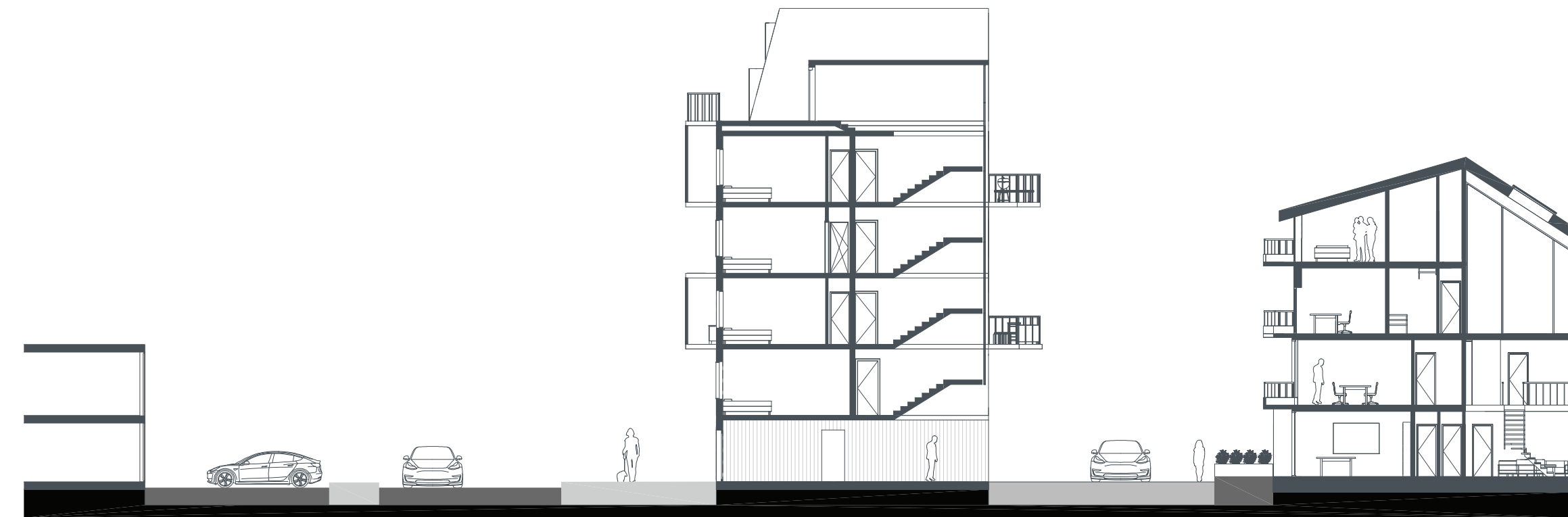
Canopy

Soft Green Barrier

Pedestrian Street

Existing Residential Building
with Gallery





Main Car Road

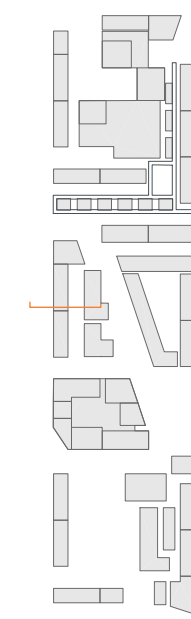
Pedestrian Street

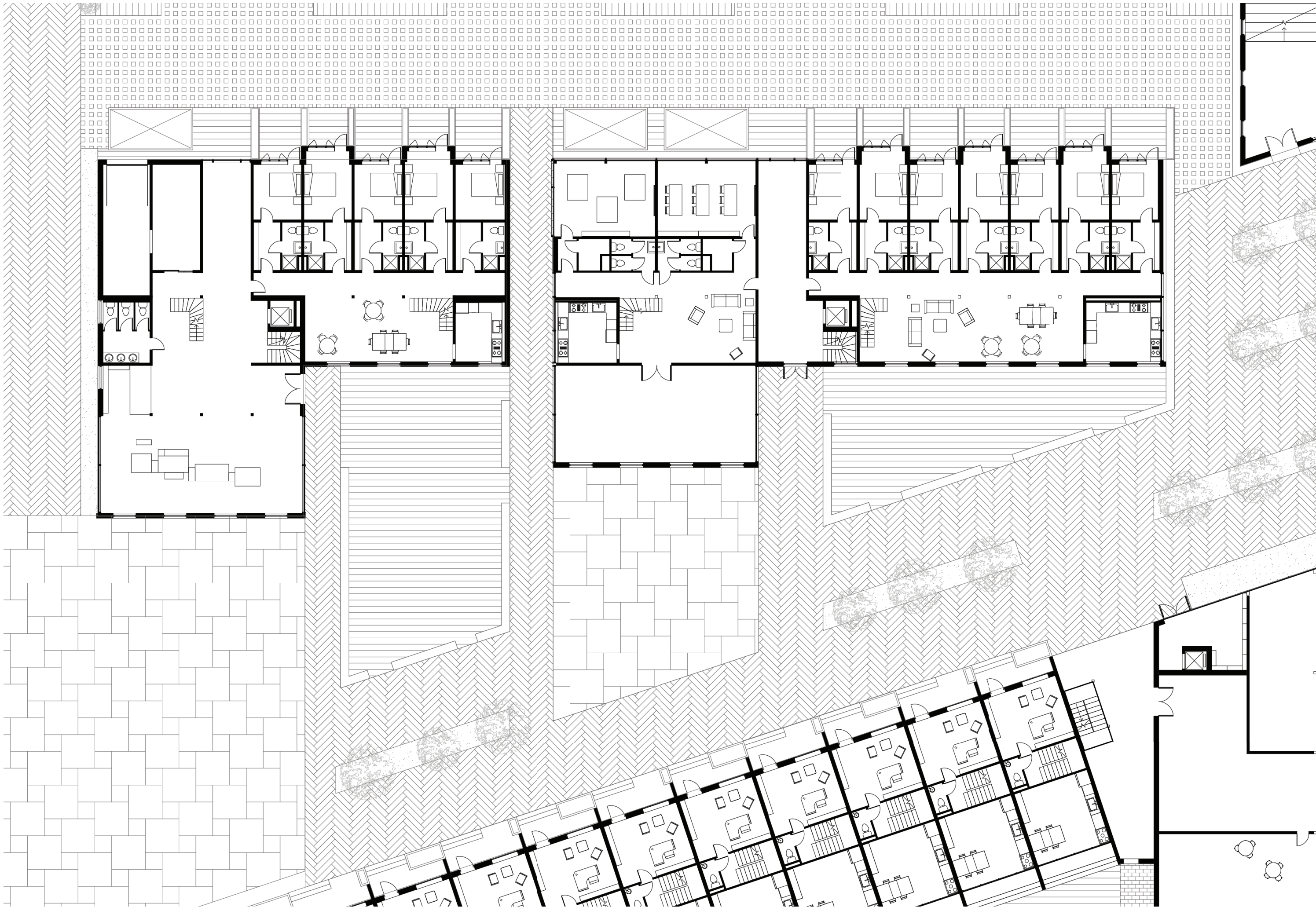
Existing Residential Building
with Office Garden
and Permeable Core

Permeable Pavement
with Grass Block

Wooden Deck

Co-housing Building
with Adjacent Productive Facility



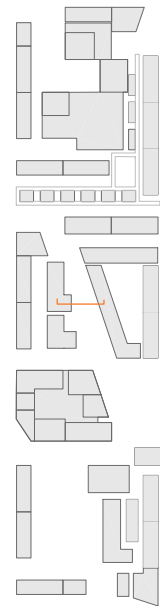


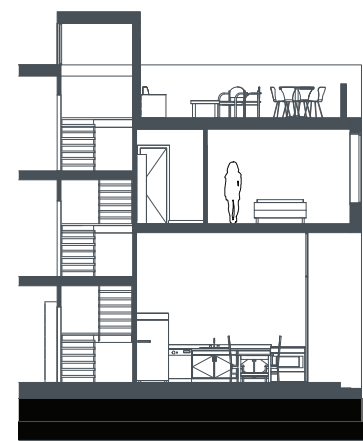
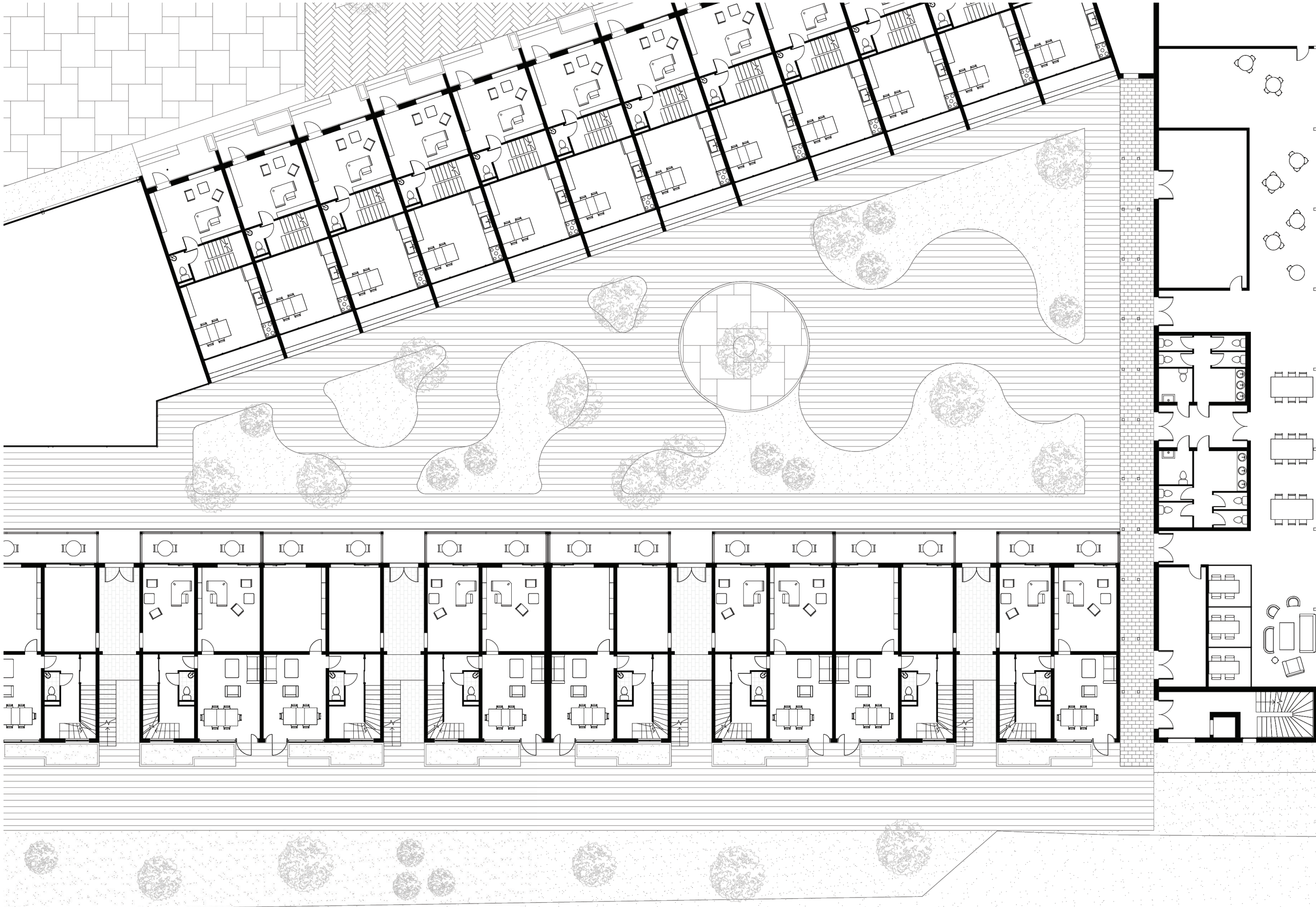
Co-housing Building
with Adjacent Productive Facility

Plaza

Promenade

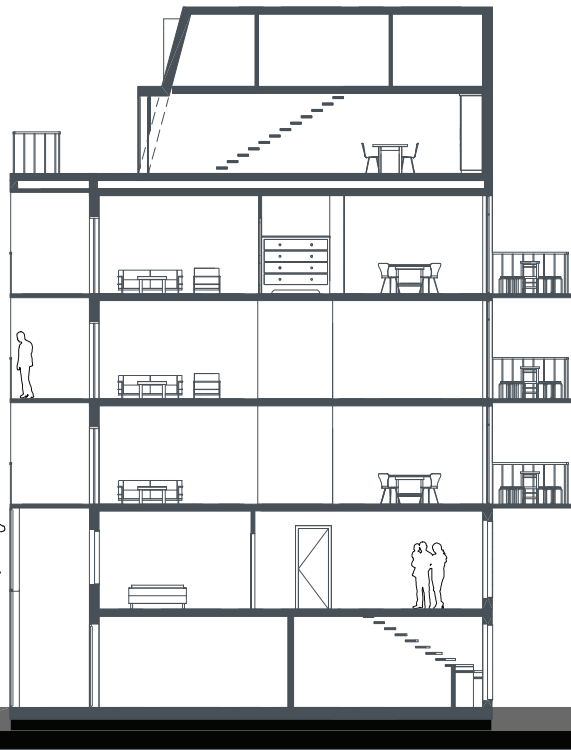
New Housing Unit
with Equal Status between
Working and Living





New Housing Unit
with Equal Status between
Working and Living

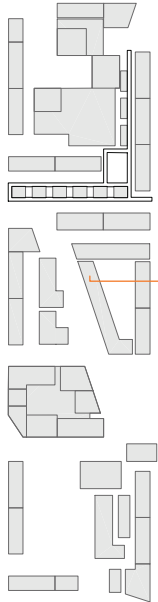
Courtyard



Existing Residential Building
with Gallery

Wooden Deck

Green



Building Technology Detail

The facade fragment is studied specifically on the building that is renovated with gallery typology and optopping. The reason this part is chosen to study is that as an existing building the building includes not only the old traces but also new additions at the same time. Thus, delving into the detail helps applying the common strategy to similar buildings that share common characteristics as post-war building.



→ Optopping Roof

→ Optopping Floor

→ Roof Extention
→ Optopping Floor

→ Renovation Gallery

→ Renovation Facade

→ Renovation Foundation

