ANIMAL BOX is not only a transformation of the backyard of Blue Star Animal Hospital, it is also a stray animal shelter that can attract stray animals in the surrounding area and increase ecological diversity. it is also a public space where people in the southern part of the city can gather.
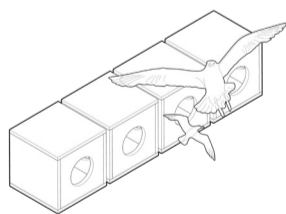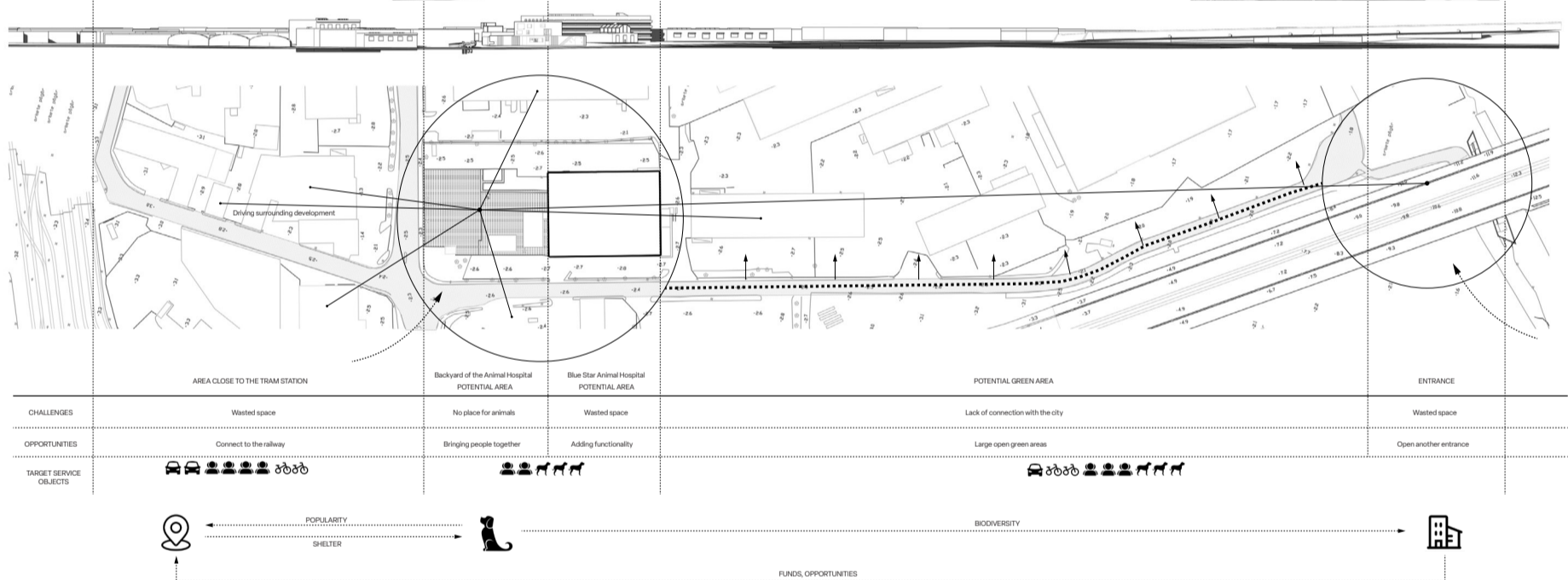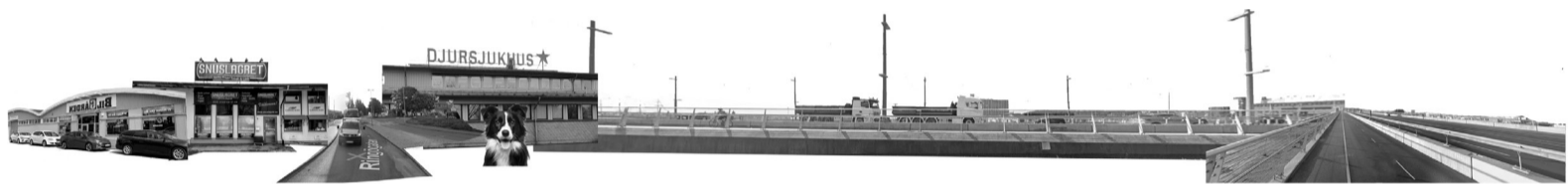
ANIMALS BOX
MORE THAN A BOX

More than just a box

The design site is located at the entrance of RINGON. Due to the verticality of the surrounding commercial areas and the inconvenient transportation, the entrance cannot function properly. The design aims to make full use of existing resources without destroying the original facilities and revitalize the entrance. ANIMAL BOX is not only a transformation of the backyard of Blue Star Animal Hospital it is also a stray animal shelter that can attract stray animals in the surrounding area and increase ecological diversity it is also a public space where people in the southern part of the city can gather. The design adopts a modular design and can be implemented in any corner of the city, achieving economic, ecological and social sustainability.

DESIGN SITE

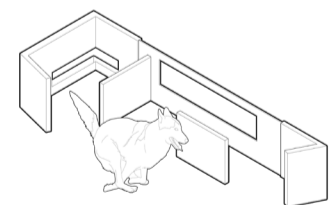|	AREA CLOSE TO THE TRAM STATION	Backyard of the Animal Hospital POTENTIAL AREA	Blue Star Animal Hospital POTENTIAL AREA	POTENTIAL GREEN AREA	ENTRANCE
CHALLENGES	Wasted space	No place for animals	Wasted space	Lack of connection with the city	Wasted space
OPPORTUNITIES	Connect to the railway	Bringing people together	Adding functionality	Large open green areas	Open another entrance
TARGET SERVICE OBJECTS					

BIRDS

Nesting

Flying

Gathering

Outdoor Space

CATS

Resting

Hiding

Observing

Intdoor Space

DOGS

Running

Playing

Climbing

Semi - Outdoor Space

More than just a box

According to the preliminary investigation, the design site was determined to be located in the backyard of the Blue Star Animal Hospital. The site is currently in a state of abandonment and has many green resources that can be used. The trees on the north side of the site are densely populated, while the south side is relatively open and connected to the main building of the hospital. The design replanned the site and formed an entrance square in a V shape, showing the intention of inviting people to enter. The north side of the site is designed as a relatively closed space to increase the tree coverage rate.
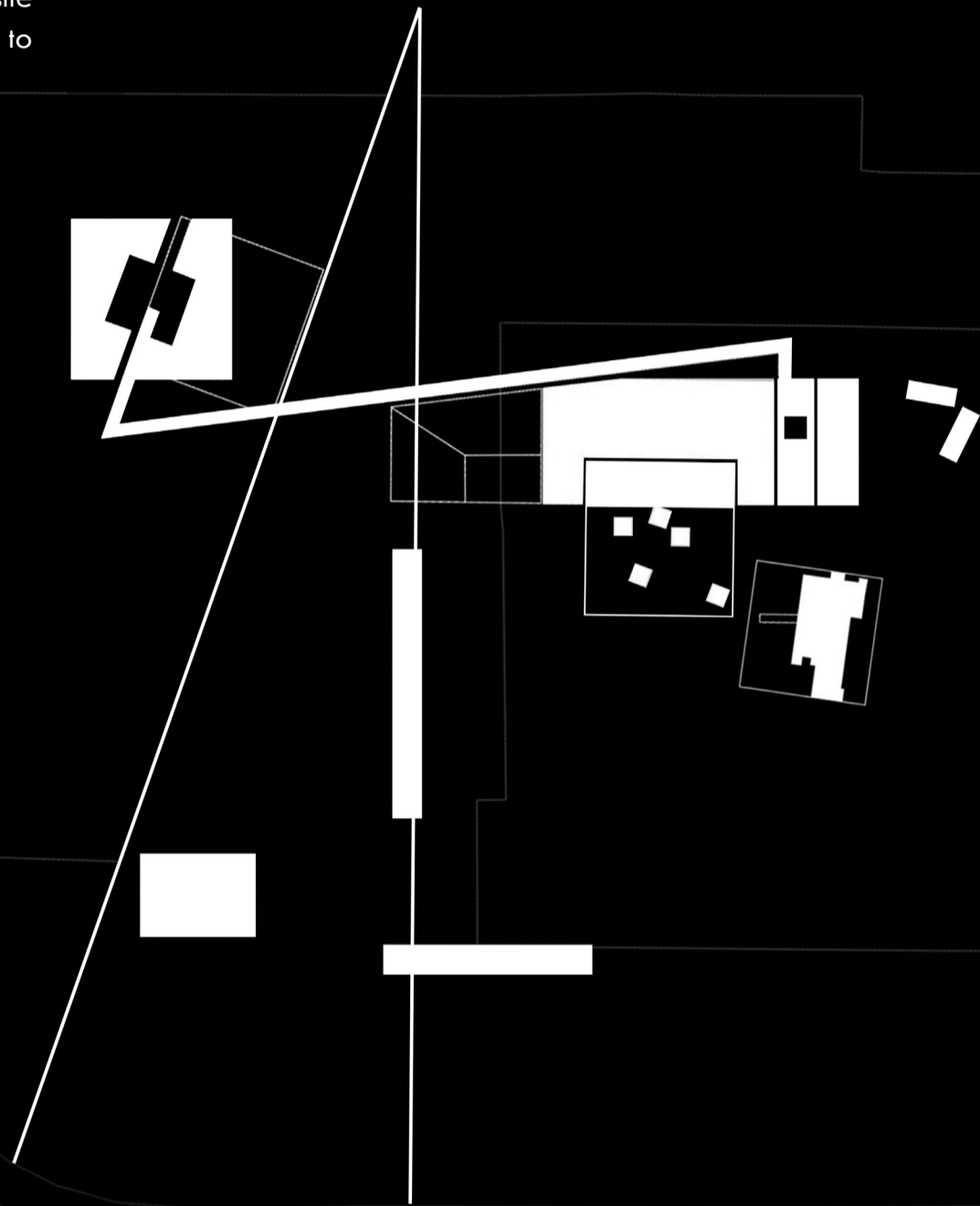
ANIMALS BOX
More than just a box
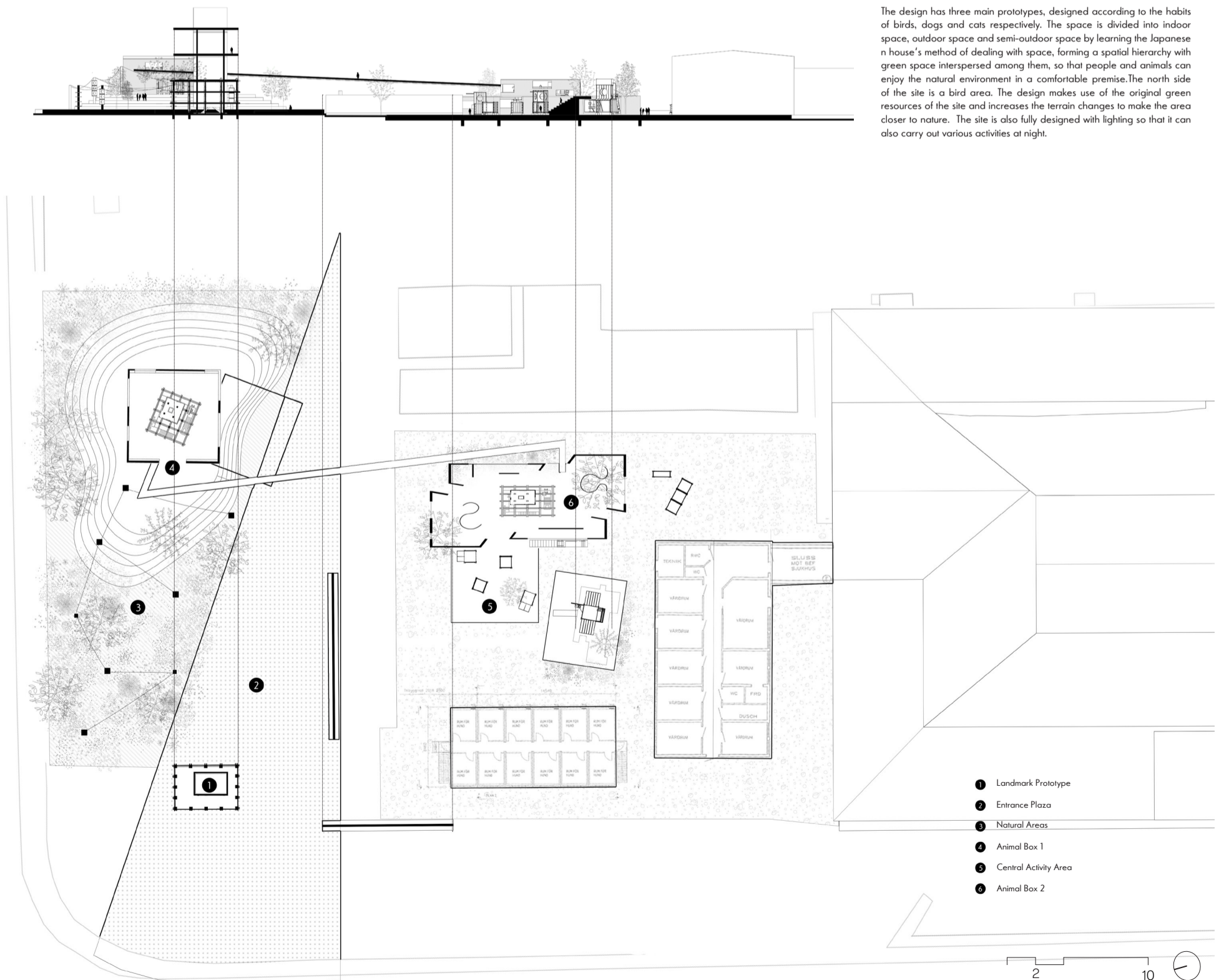
Achieving ecological sustainability is one of the main goals of the design. Based on grasshopper's analysis of solar direction and wind direction, the prototype adopts an environmentally friendly design that integrates animal space with human space and adds rainwater collection and purification functions, so that it can serve as a system to promote ecological diversity in the RINGON area.
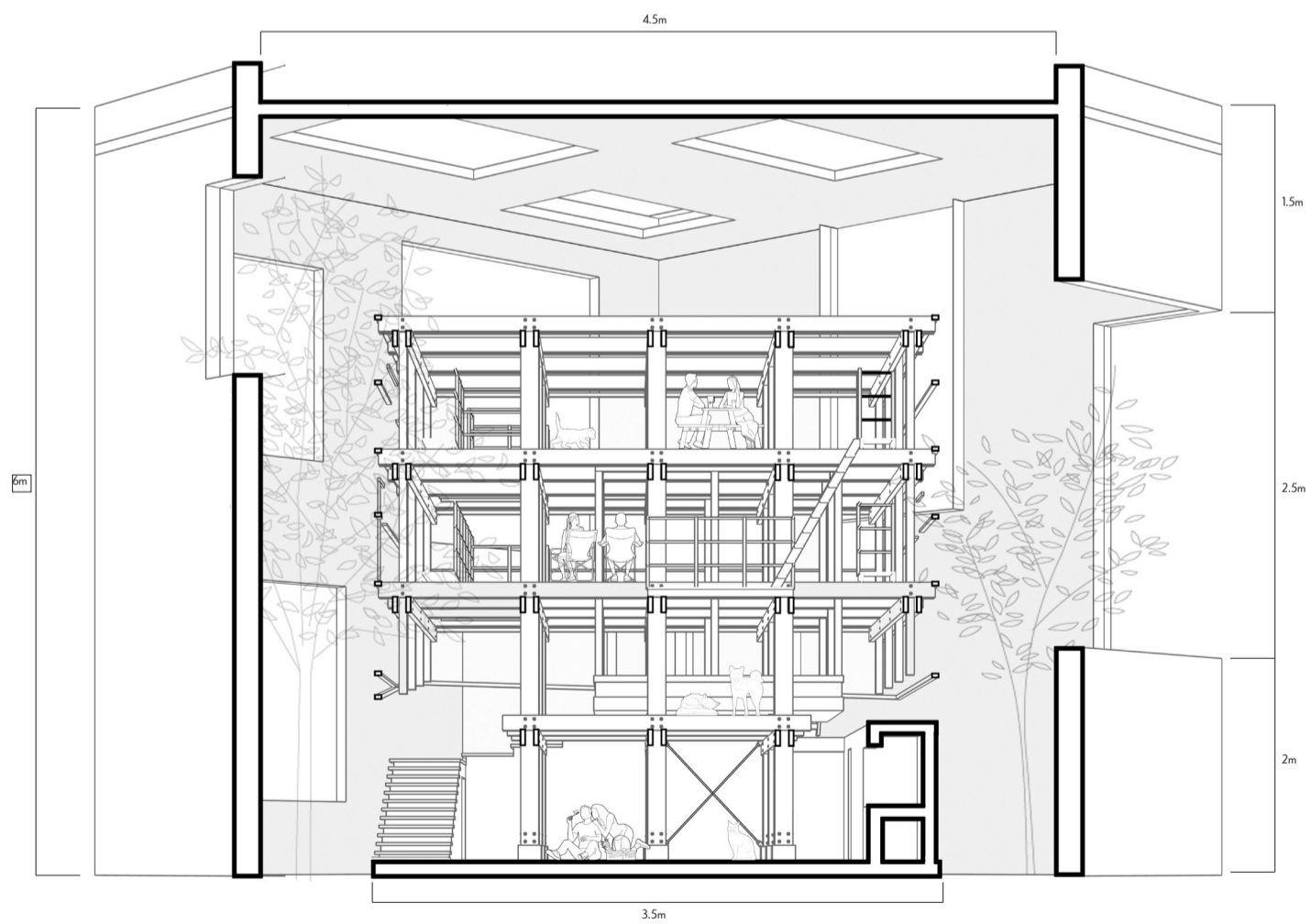
Sun Direction and Wind Analysis

Various Boxes

The design has three main prototypes, designed according to the habits of birds, dogs and cats respectively. The space is divided into indoor space, outdoor space and semi-outdoor space by learning the Japanese n house's method of dealing with space, forming a spatial hierarchy with green space interspersed among them, so that people and animals can enjoy the natural environment in a comfortable premise.The north side of the site is a bird area. The design makes use of the original green resources of the site and increases the terrain changes to make the area closer to nature. The site is also fully designed with lighting so that it can also carry out various activities at night.
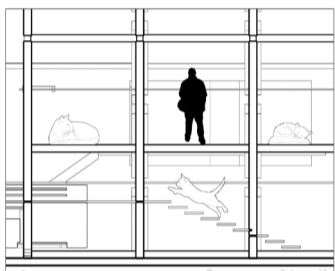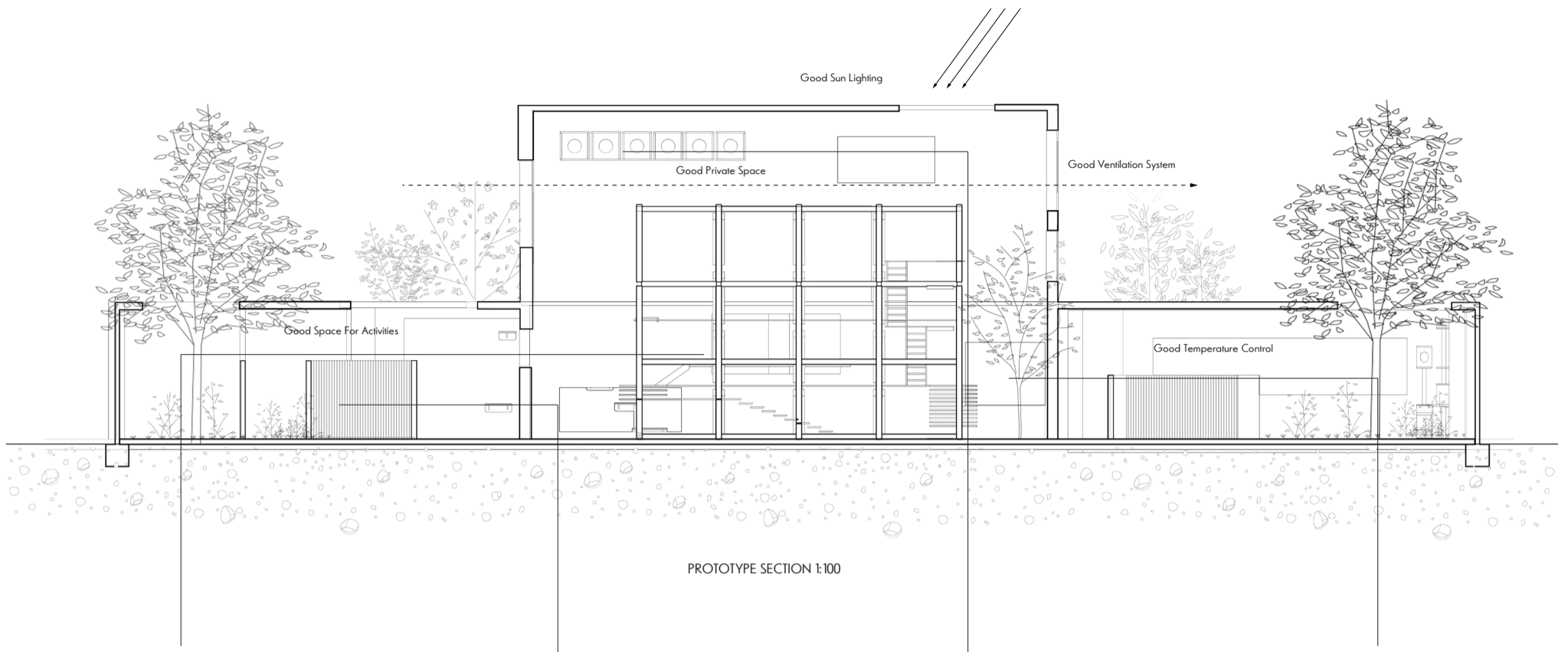
1. Landmark Prototype
2. Entrance Plaza
3. Natural Areas
4. Animal Box 1
5. Central Activity Area
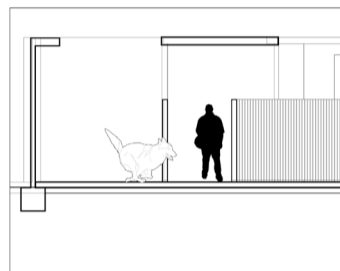6. Animal Box 2

2   10

Rendering

Detailed Technical Perspective

The north side of the site is a bird area. The design makes use of the original green resources of the site and increases the terrain changes to make the area closer to nature. The prototype adopts a nested structure of concrete boxes and wooden frame structures, which allows bird activities to be viewed without destroying the bird habitat. The hole structure on the outer structure has multiple functions. It can not only increase sunlight exposure and enhance the ventilation capacity of the box, but also allow birds to come and go more freely, which can attract more birds, such as birds on the river bank to live here, and can also attract more tourists, forming a virtuous circle.

ANIMALS BOX
More than just a box

Good Sun Lighting

Good Private Space

Good Ventilation System

Good Space For Activities

Good Temperature Control
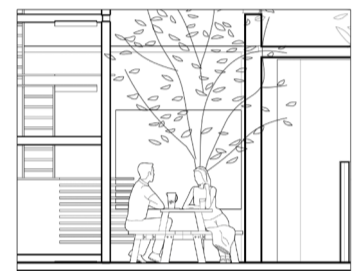
PROTOTYPE SECTION 1:100

CATS

DOGS

BIRDS

HUMANS

Wooden Frame

Animal-Friendly Design

Blending with Nature

In the middle of the box is an open public structure designed to bring people and animals together to play and interact. Its wooden frame structure mimics the vertical spatial experience of the woods, with bird nests hung above as soft partitions. The small box in the middle of the structure creates a gathering space where people can visually and physically surround the sunken type to enjoy interaction with the animals. Many spaces of different scales are interspersed in the box to accommodate various behaviors of different species.

The non-human is at the heart of the design. Floors are typically designed for people and their shoes, but are adapted to the pads and joints of canine paws: the semi-outdoor space leaves plenty of room for dogs to vent to the outside, and rainwater from the roof is collected in large troughs for dogs and birds. The exterior wall materials minimize echo, noise and reverberation. The building is lifted off the site so that the entire activity area is connected to the center of the site and into the animal hospital. The entrance uses the sightline design method of Chinese gardens, which prevents people from directly seeing the entire site, thus attracting visitors to enter.

The openness of the facade allows the prototype to incorporate the surrounding nature into the interior climate, but it is also closed to create a buffer zone between the two. The rooftop device collects rainwater and snowmelt, which is then transported to a tank and then used to irrigate the concrete walls and plants in the box. The shape symbolizes the ability to bring nature into the box in the form of air, water and light.
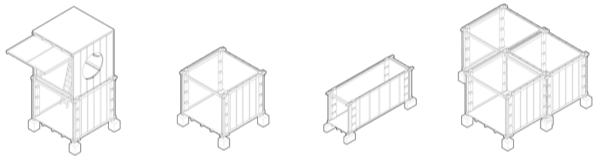
ANIMALS BOX
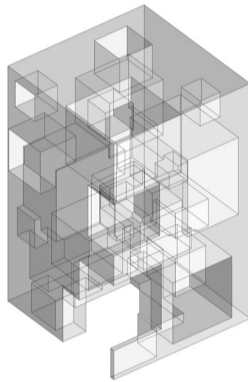## More than just a box

Prototype Extension
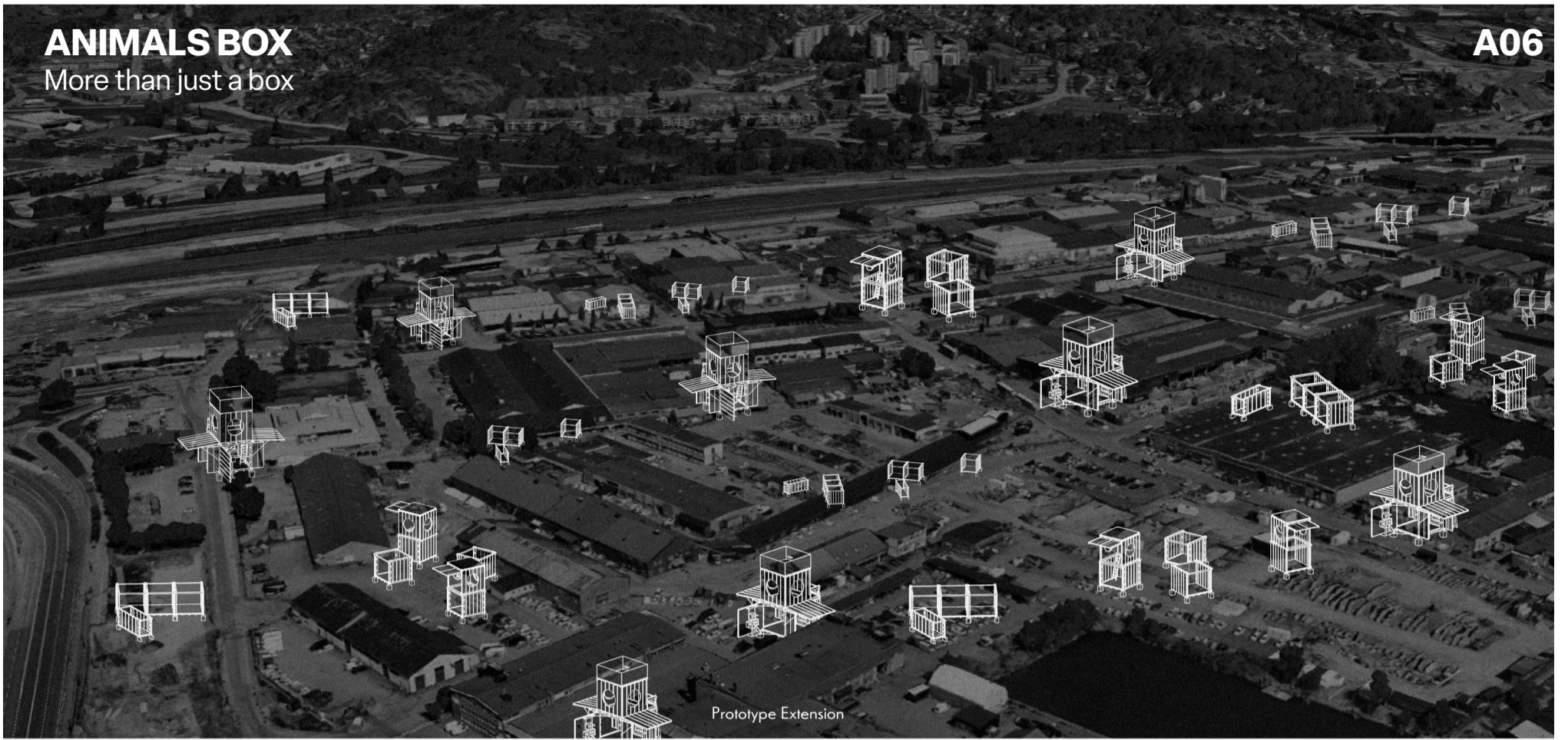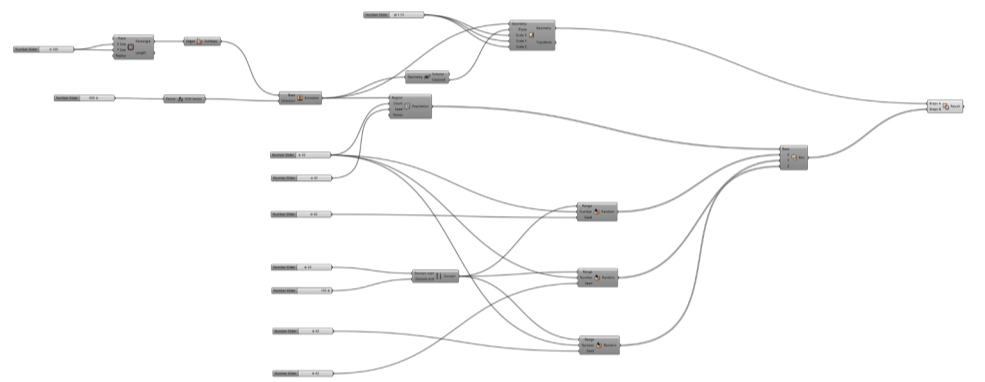
Random Space and Expansion

The design adopts a sample design and can be implemented in any corner of the city. The design uses grasshopper for space simulation, simulating several dot matrices in a cube, and expanding it into several cubes as the center, thus forming a variety of random spaces in the box, which conforms to the behavioral scale of various organisms. These boxes are divided into different sizes and can be assembled arbitrarily according to the site. This saves transportation costs, achieves economic and ecological sustainability, and can serve as the development direction of future cities.
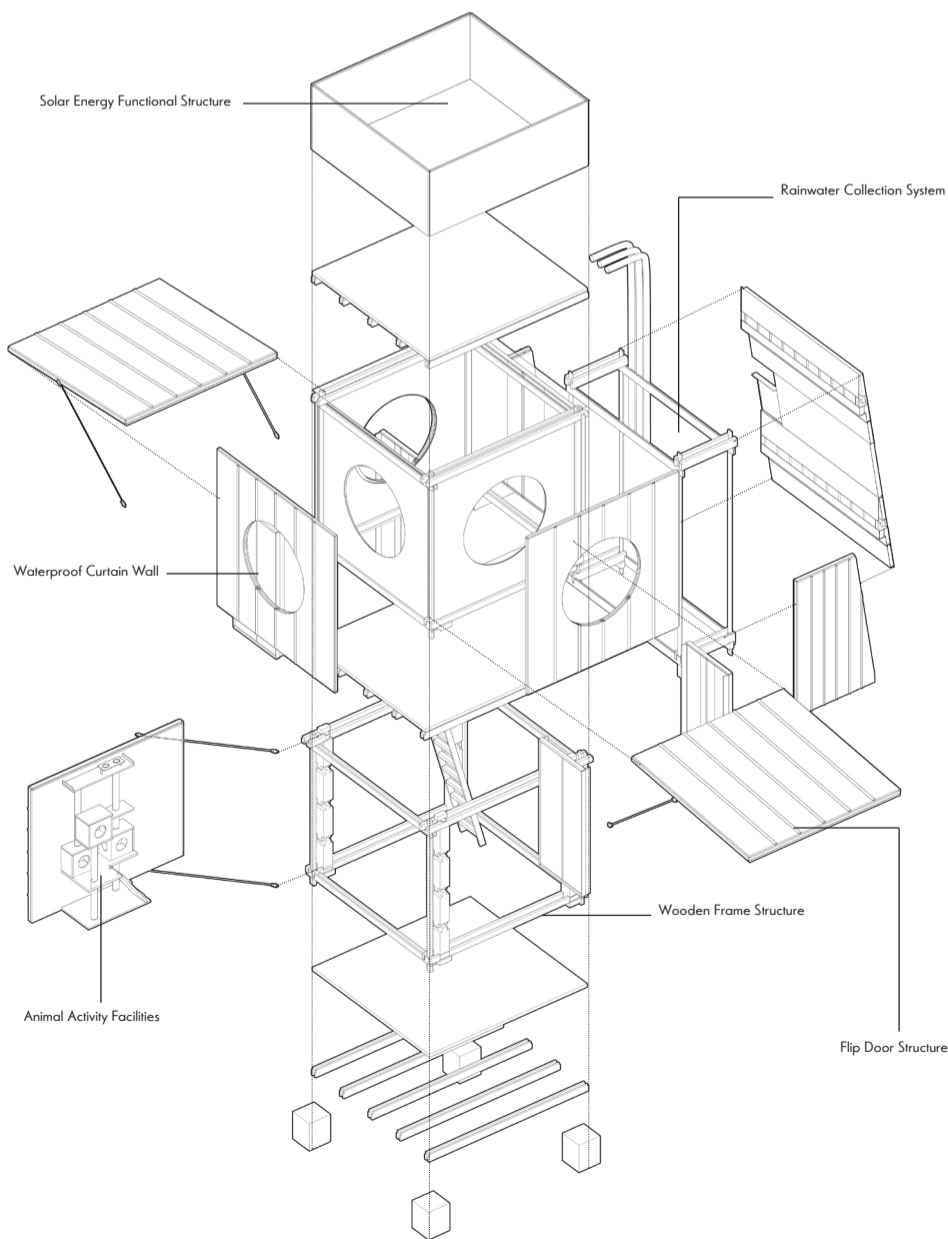

Various Boxes

Random Space

Random Box Generation Process

Solar Energy Functional Structure

Rainwater Collection System

Waterproof Curtain Wall

Wooden Frame Structure

Animal Activity Facilities

Flip Door Structure

Explosion Analysis

Open Source Urbanism

The core idea of open source urbanism is to promote democratization and inclusiveness of urban governance through open technology and community-driven infrastructure. It draws on the concepts of the open source movement and emphasizes the decentralization and community participation of infrastructure design and management. This model challenges the traditional centralized, expert-led urban governance model and advocates promoting urban innovation and development through open source platforms and collaborative development. I hope that this design can be a vision of this idea and provide a direction for thinking about future cities.