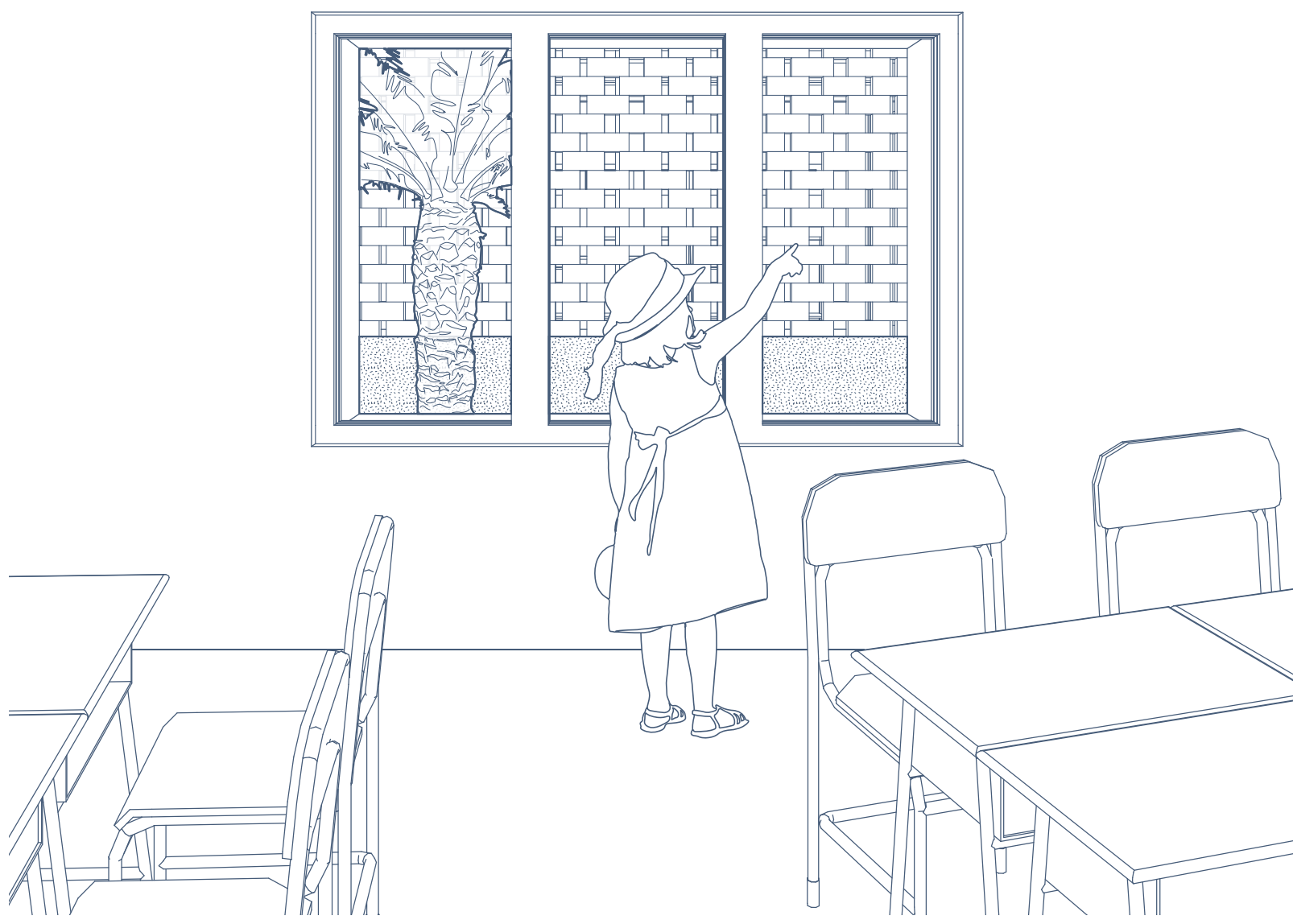


JNAH PUBLIC SCHOOL

complex projects

08/11/2022
Graduation studio
Lisa van Vliet



Introduction

"The education system in Lebanon is at risk of collapse, with devastating consequences for children..." (Human Rights Watch, 2021)

The Lebanese government has been unable to provide basic education to at least 700,000 children. This is about one third of all children that should have access to education. On a surface level, this problem seems to be caused by the way the Lebanese government has been dealing with recent issues such as the port explosion, covid-19 and the countries debt causing hyperinflation.

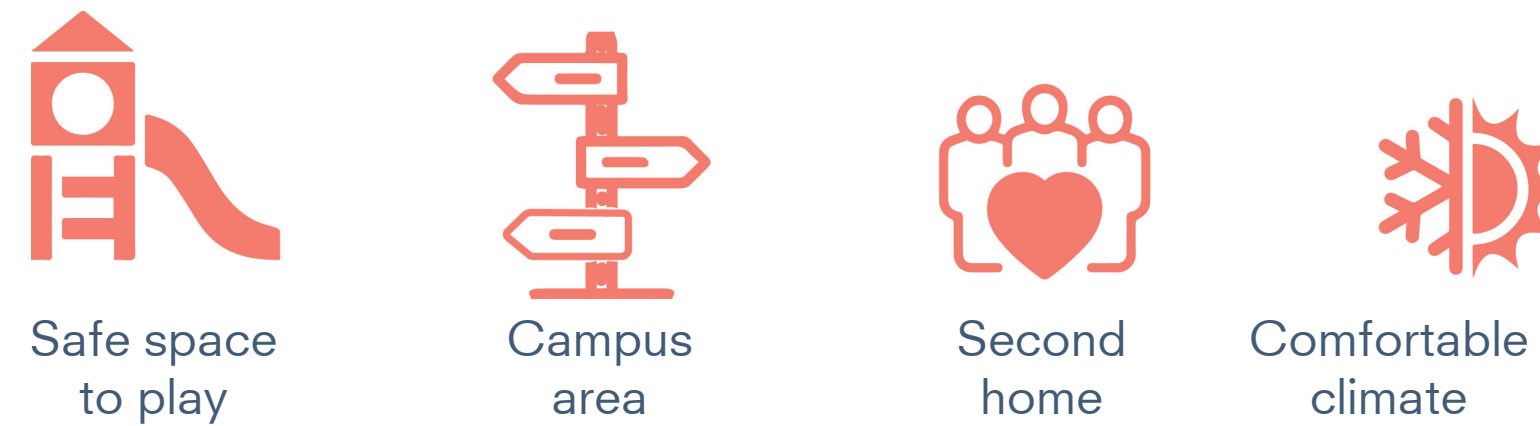
When looking deeper in the education system of Lebanon, it becomes clear that there is a systematic lack of funding from the government for public schools. A review of the education in Lebanon from 2017 writes that 70% of all enrolled students go to private schools. This is a big financial burden on families. This review also describes how only 2,45% of GDP is spent by the government on public education. In contrast, the average spending on education by European countries is 4,0% of the GDP.

The research that will be conducted will evaluate the possibilities public school architecture could have in the suburbs of Beirut if provided with the right amount of funding. Also, in what way it could benefit the public as a whole.

The research question of this paper is:

How to design a new public school in away that it becomes a public asset?

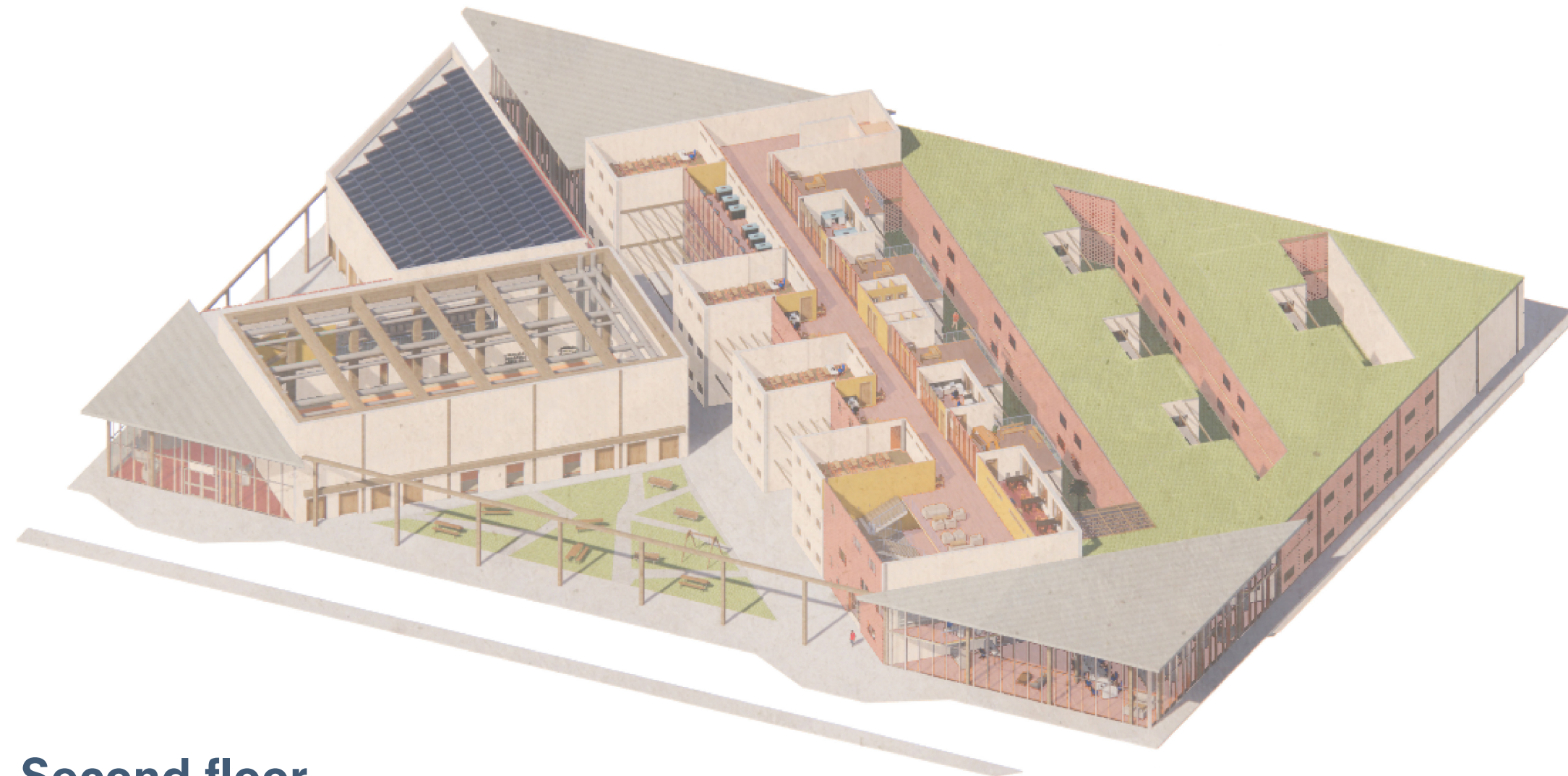
Goals



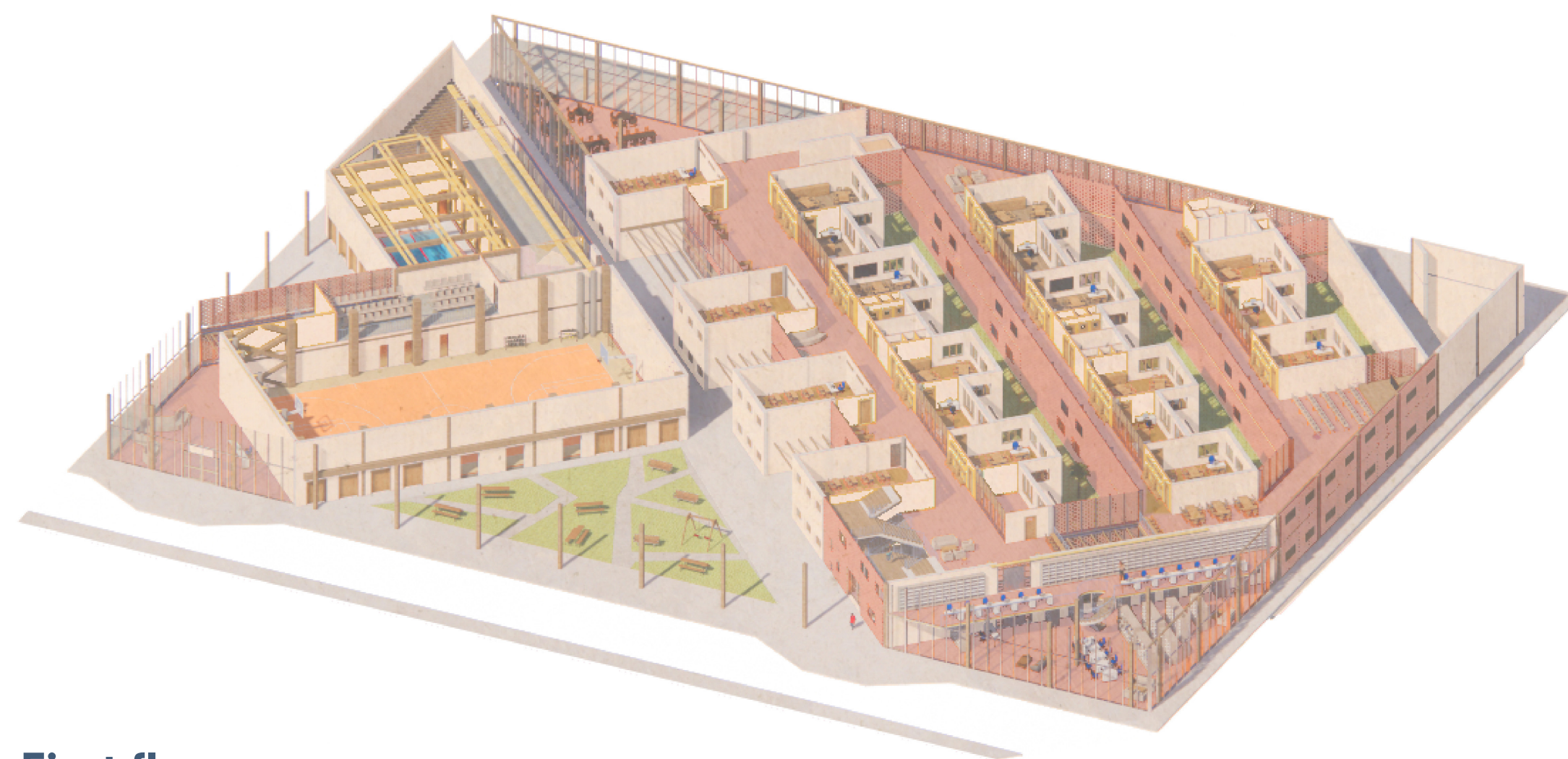
Masterplan Beirut Mosaic



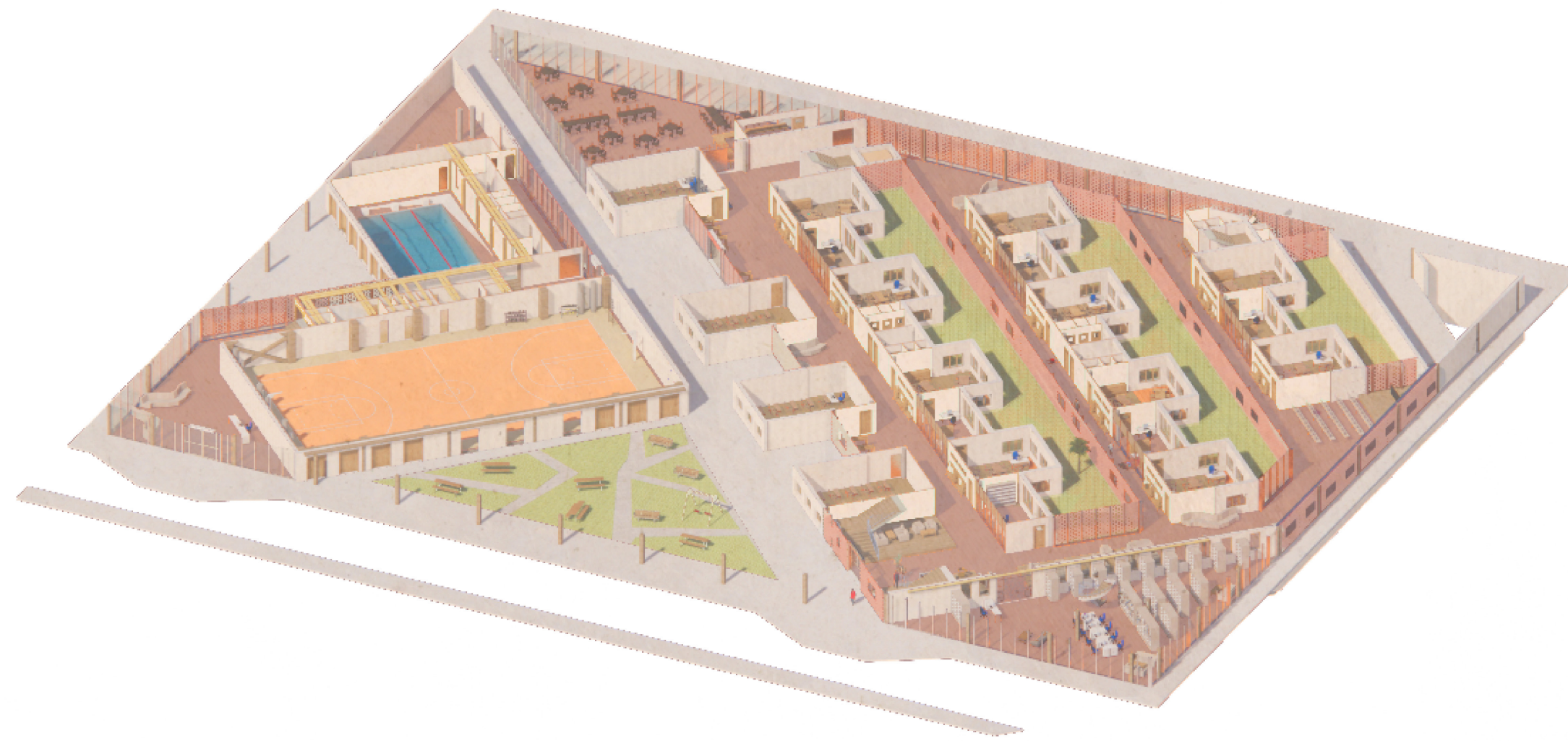
Roof



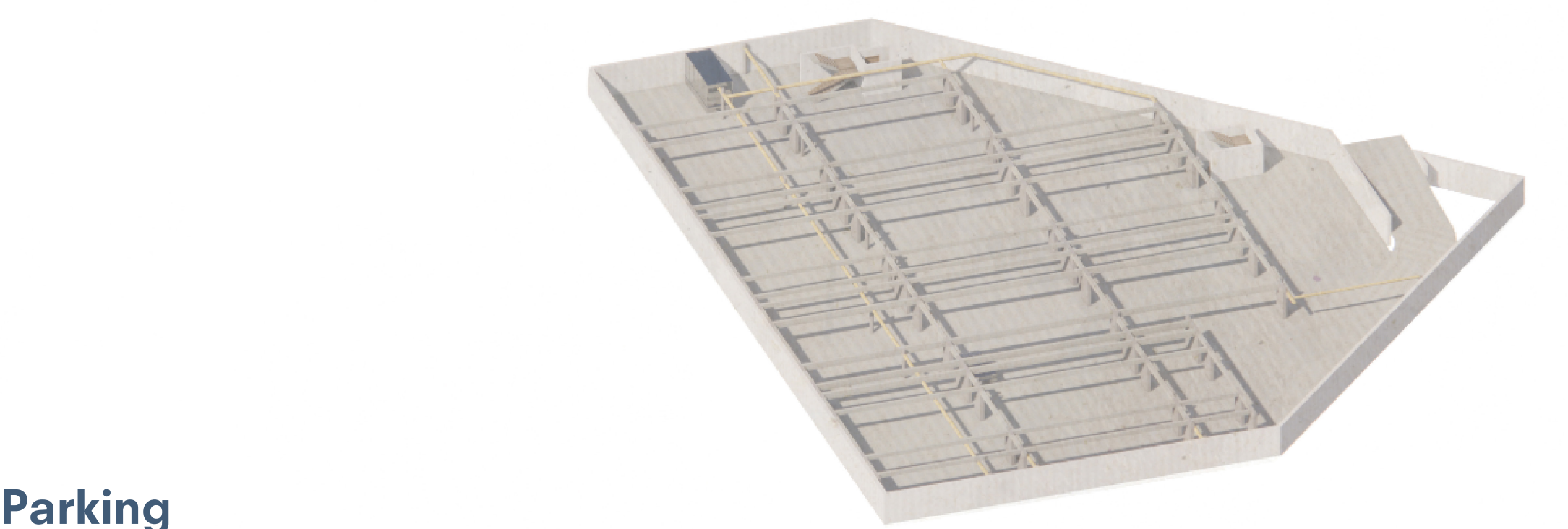
Second floor



First floor



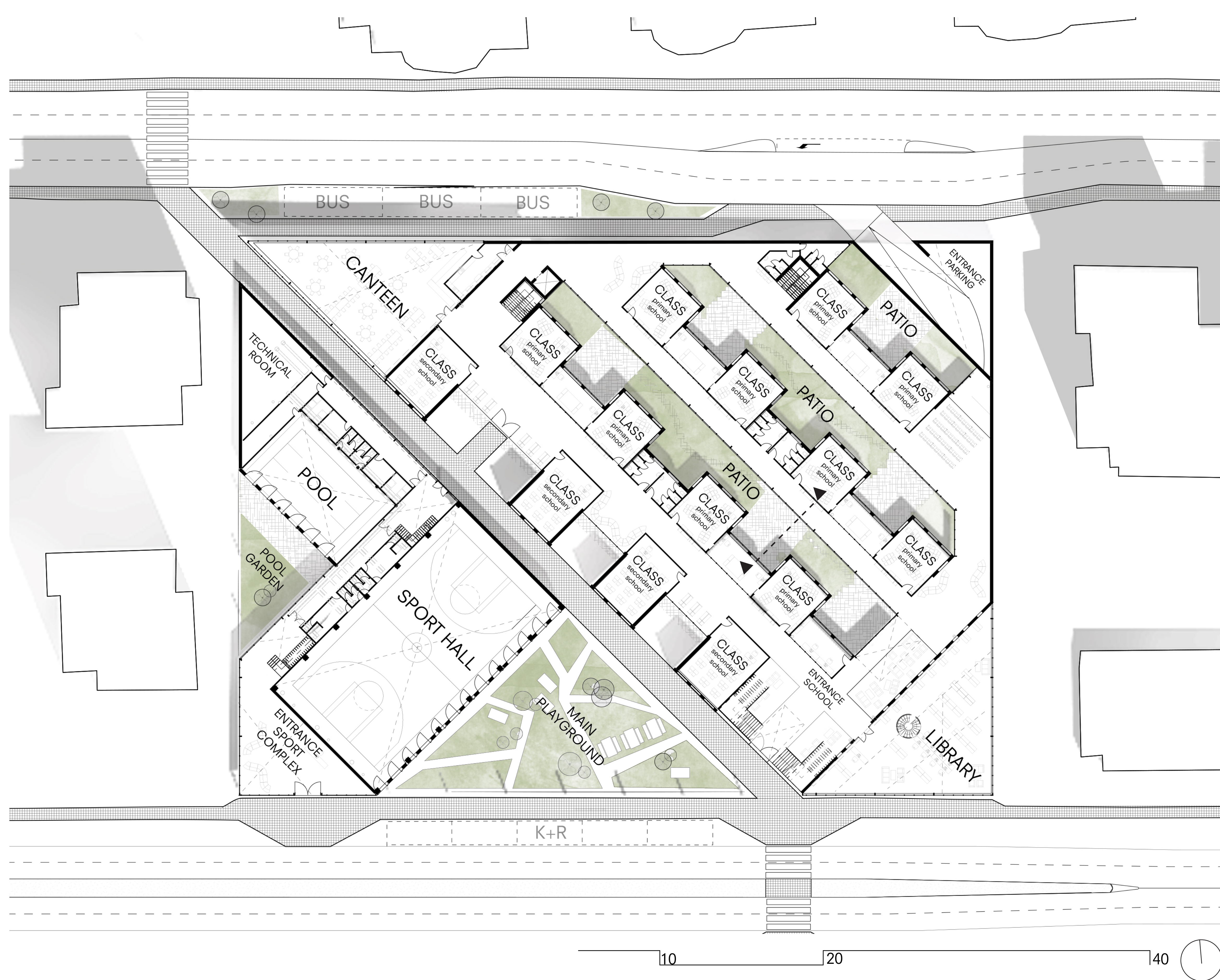
Ground floor



Parking

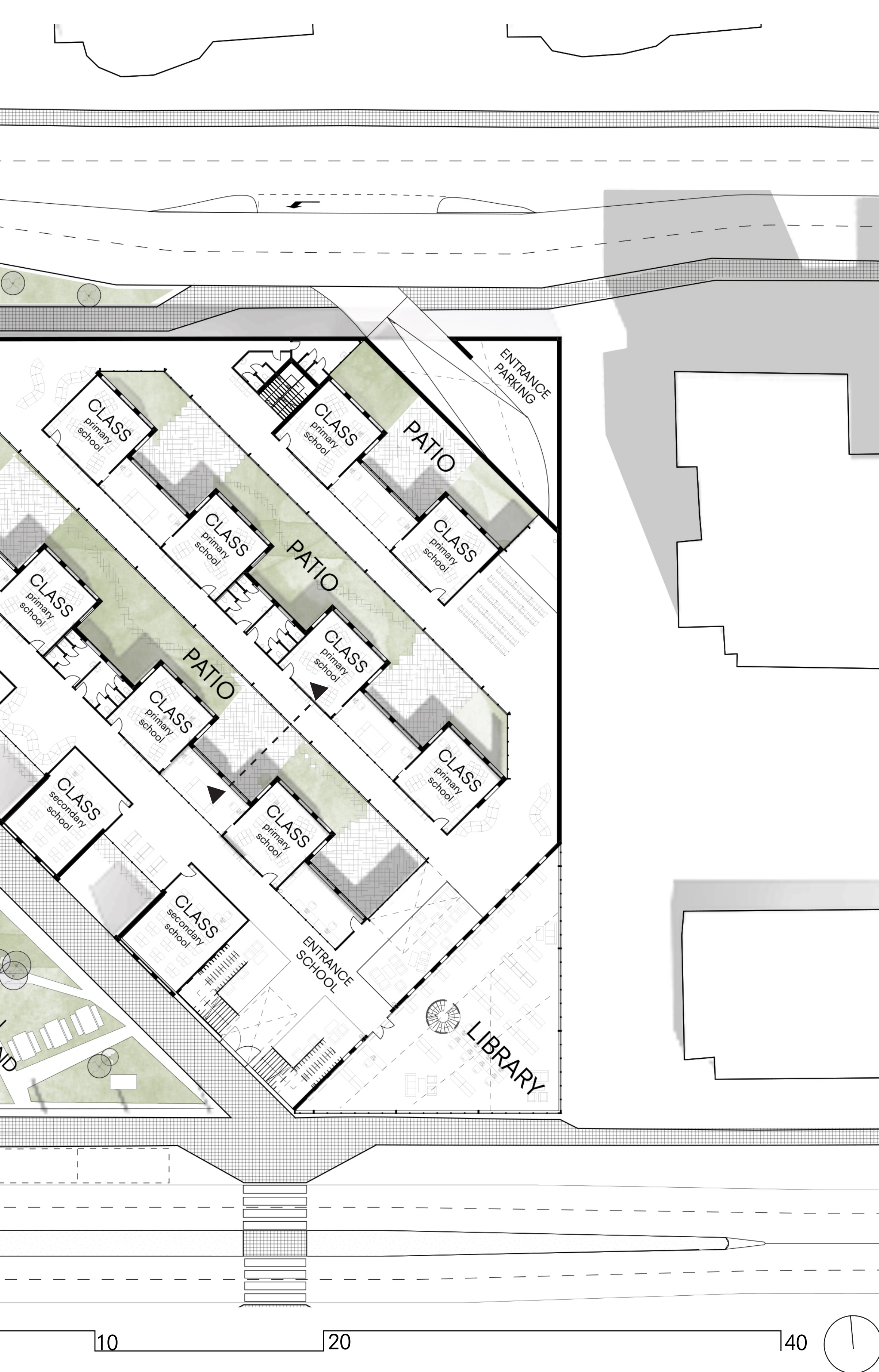


Site plan



Ground floor

Classroom



Parking



First floor



Second floor

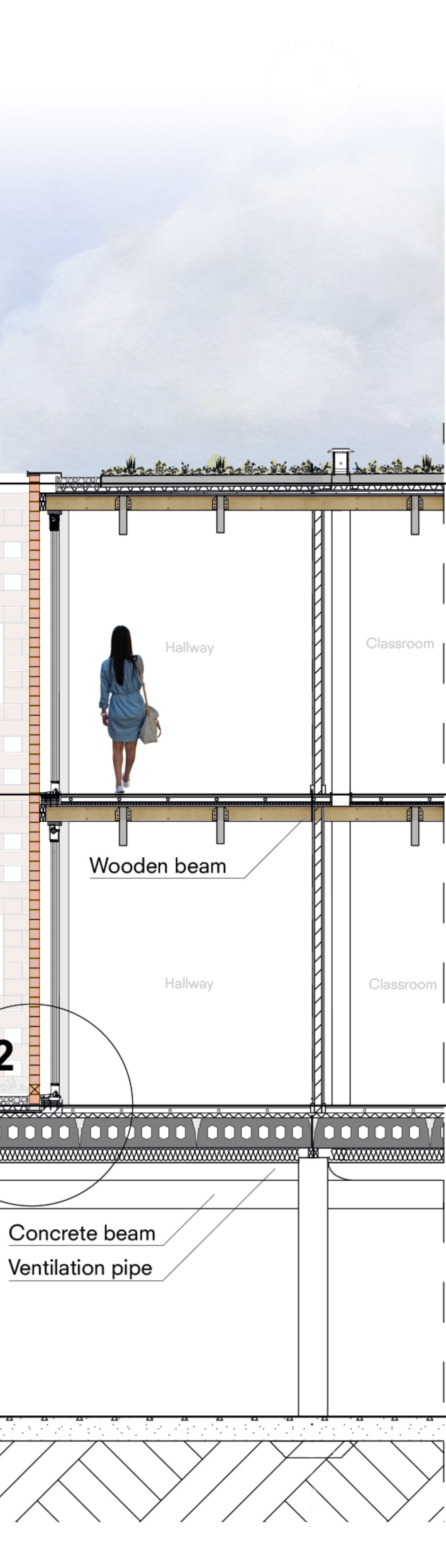


Detail 1 first floor plaster facade



Envelope fragment

Detail 2 ground floor brick facade



Detail 1 First floor

1. Classroom facade w=350 mm

- Plaster w=25 mm
- Lime stone w= 300 mm
- Plaster w=25 mm

2. First floor h= 525 mm (without beams 125 mm)

- Tile finish h= 25 mm
- Powder tile adhesive
- Fabric tape
- Sand cement floor with floor heating h= 50mm
- Insulation hard pressing for acoustics h= 30 mm
- Wooden floor boards h=20 mm
- Wooden beams h=400mm w=75 mm, 7 m

Detail 2 Ground floor-Patio

1. Hallway facade w= 400 mm

- Brise Soleil Brick 100 mm
- Sliding window with wooden frame
- Secondary construction in support of curtain wall w=100m

2. Patio floor h=680mm

- Vegetation h=25 mm
- Substrate h=120mm
- Drainage h=50mm
- Protective layer h=15
- Roofing
- Jiffi concrete on slope h=15
- Hollow-core slab floor h=320,w=1200mm, 12/13m
- Flax insulation h=150mm

3. Ground floor h= 585 mm

- Tile finish h= 25 mm
- Powder tile adhesive
- Fabric tape
- Screed with floor heating h= 50mm
- Structural concrete topping h= 50 mm
- Hollow-core slab floor h=320,w=1200mm, 12/13m
- Flax insulation h=150mm