

URBAN LIVING ROOM

Brief:
Toxteth reservoir supplied clean and pure water as a water infrastructure for the toxteth region before 1997. The water infrastructure could transfer to a social reservoir continuing bringing benefit to the local area.

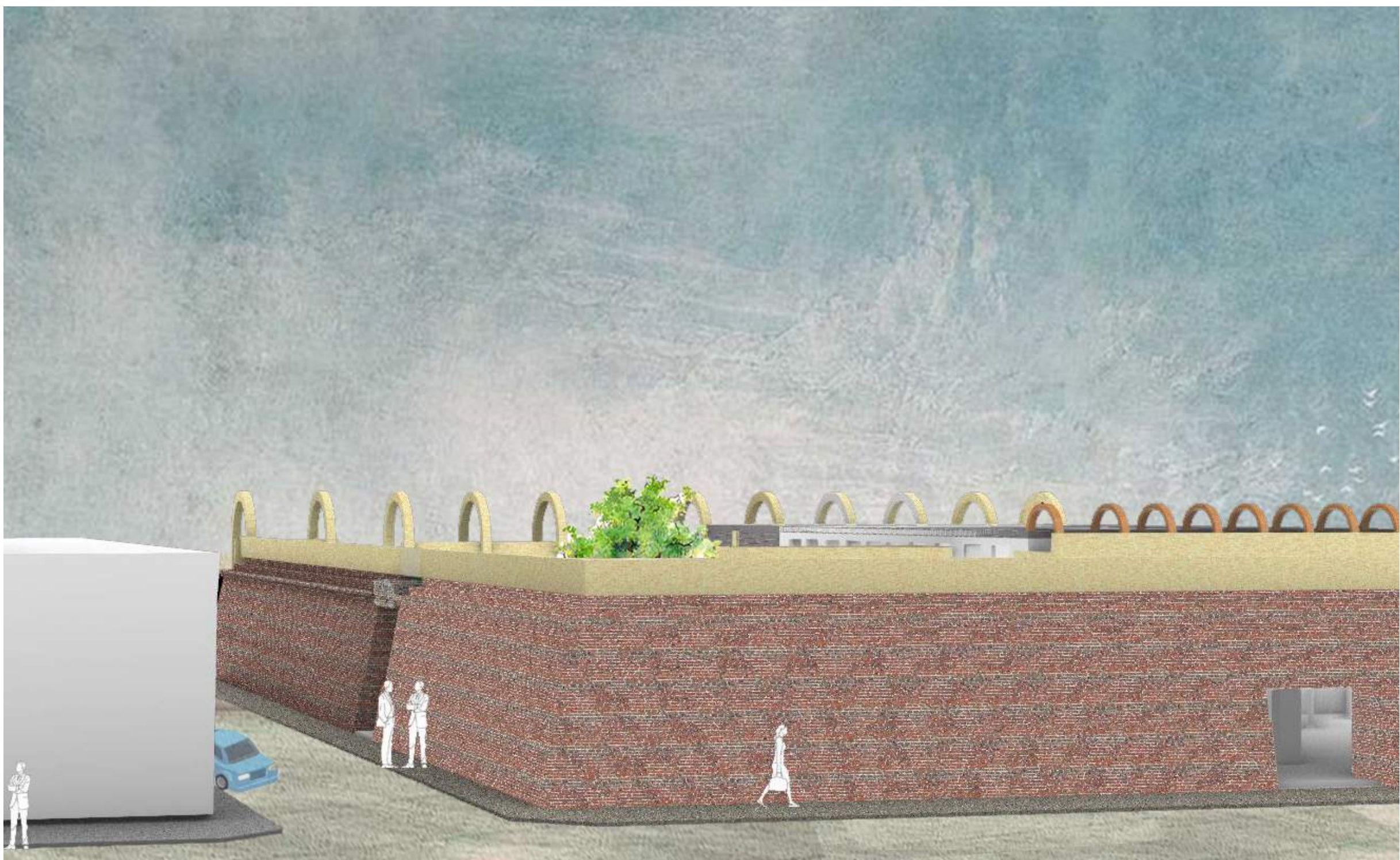
Reusing the reservoir as a social community centre is a good decision to regenerate and active this area for next 100 years.

The aim of this project is to design a mix use social community center for the local people and visitors and contribute to supporting and sustaining positive social and ecological relations.

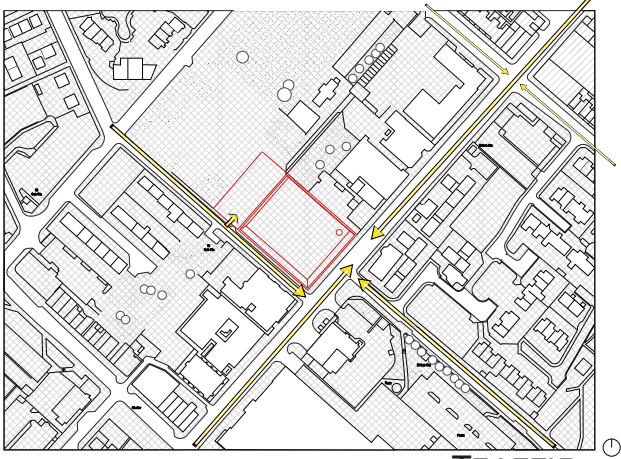
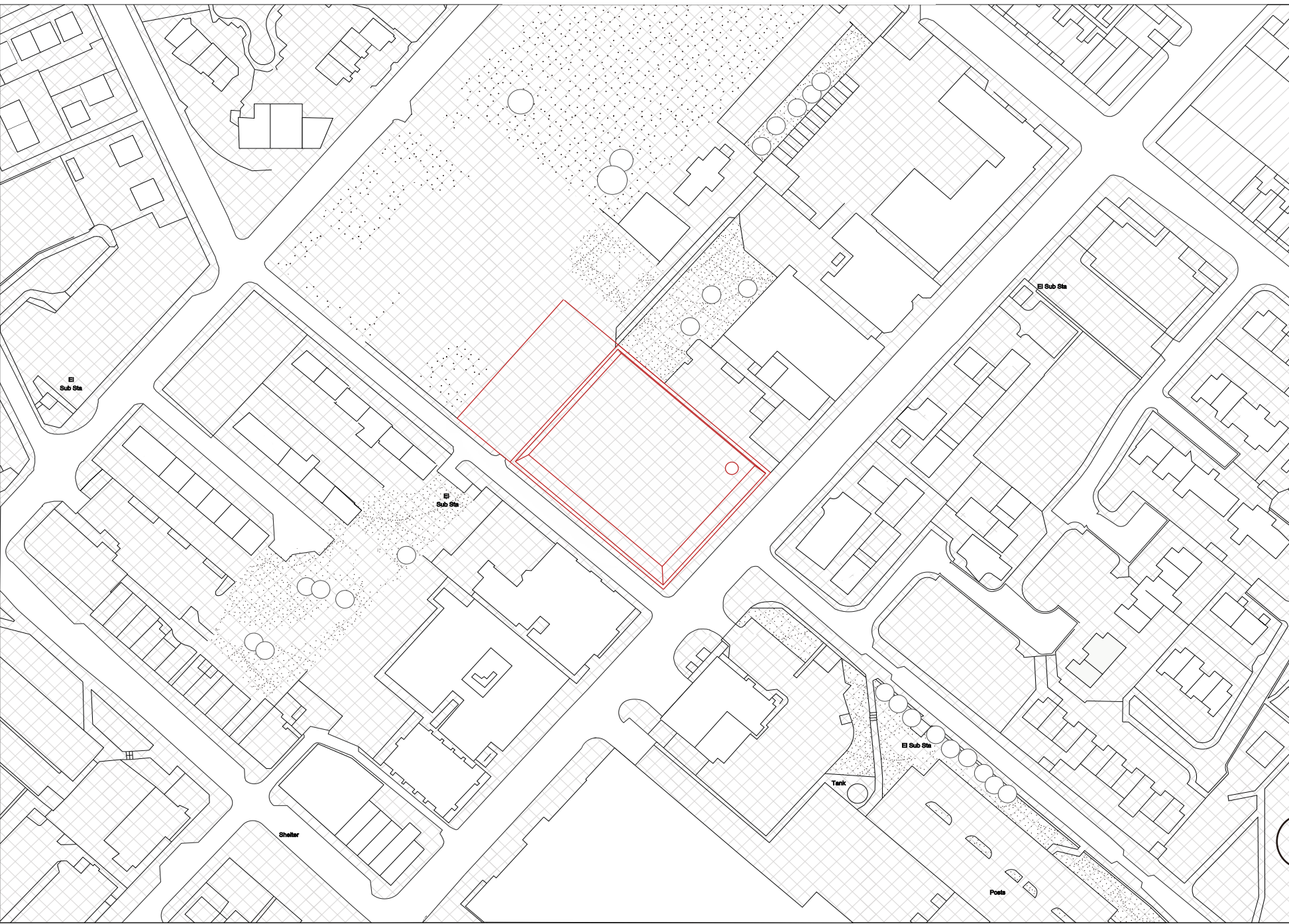
Principles:
1.taking advantage of the natural environment and context.

2.reserving the original structure as far as possible.
the reservoir could tell story by the original materials and structure.

3.Accessible for people from each direction of the reservoir and the disabled friendly.

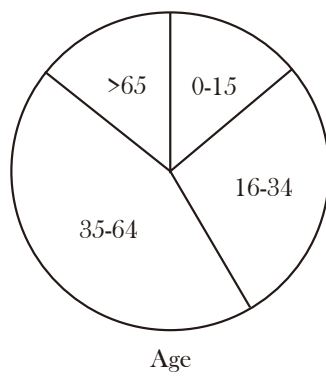


CONTEXT AND SITE ANALYSIS

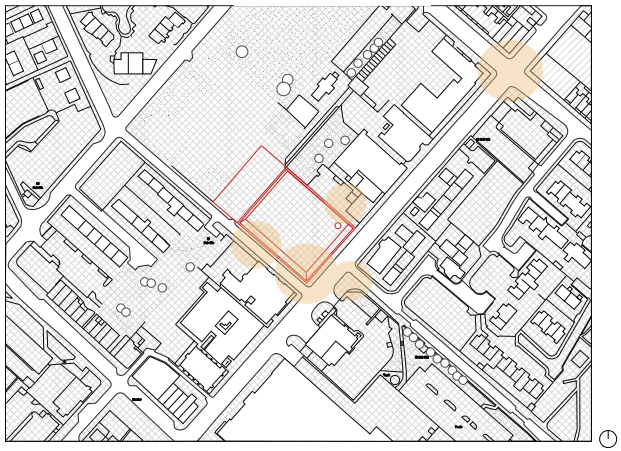


According to the street and traffic net, the main entrance could be placed along south-east direction which in front of Melville St.

And another entrance could be putted along the Letitia St. because over half residents have no car. This entrance could for people coming here by bicycle or on walking.

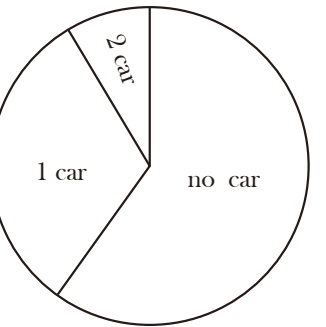


Age

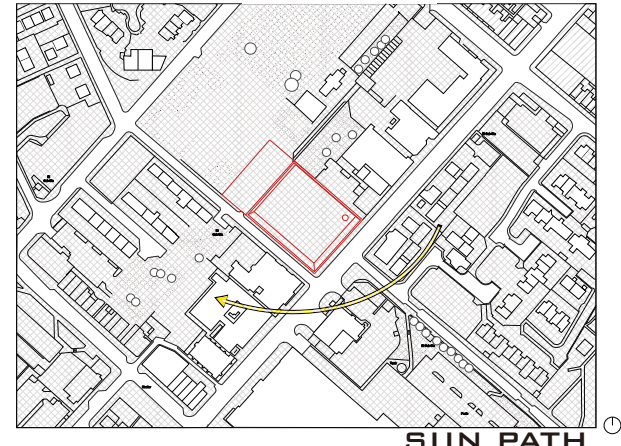


Mix-use function need to meet all ages.
vertical circulation should comfort the elderly.

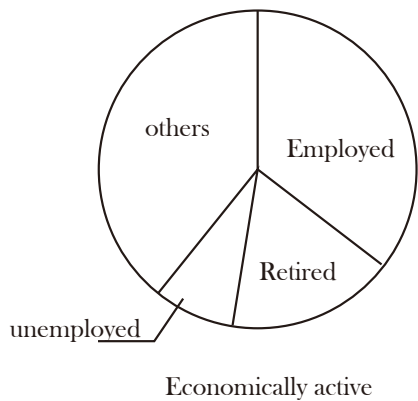
Sound level influence the layout of reservoir function.



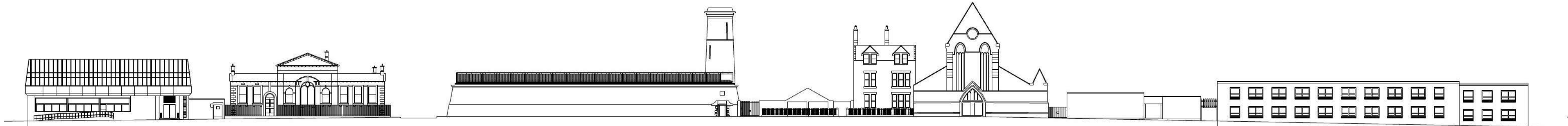
Household with car



making good use of the sunlight



Economically active



JOB CENTRE

TOXTETH TOWN HALL

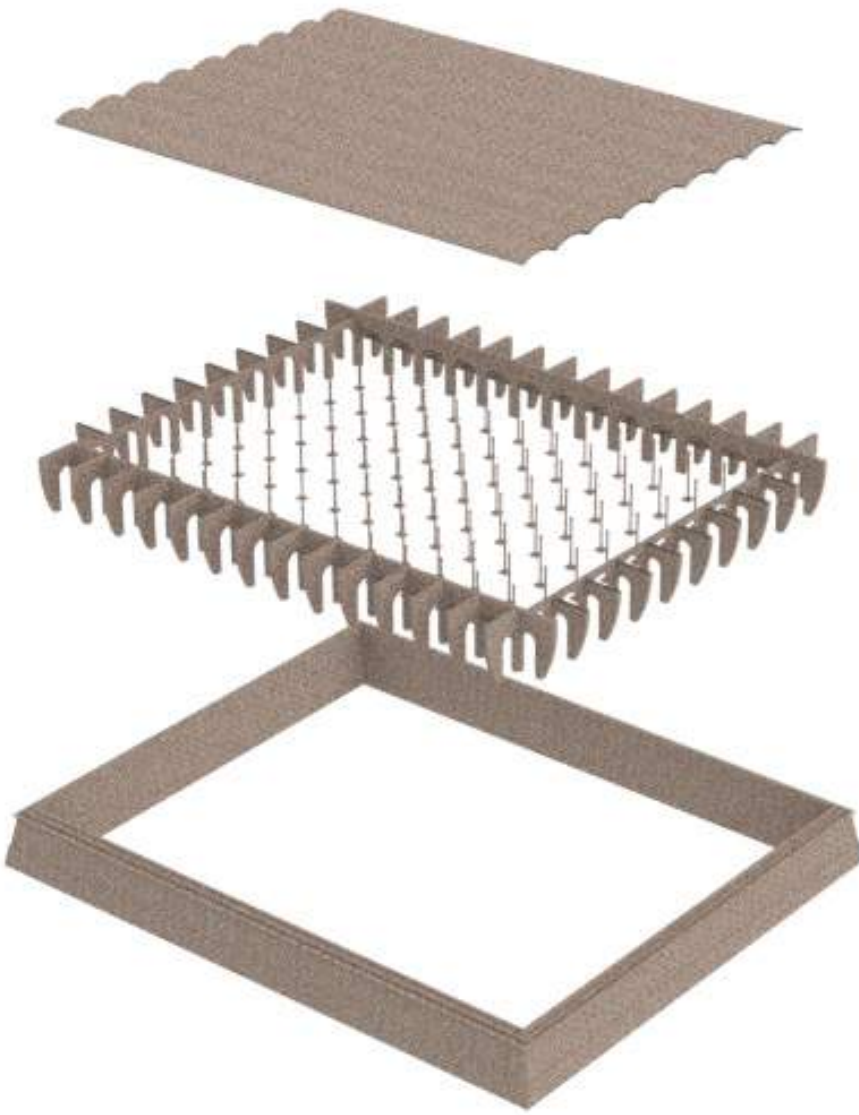
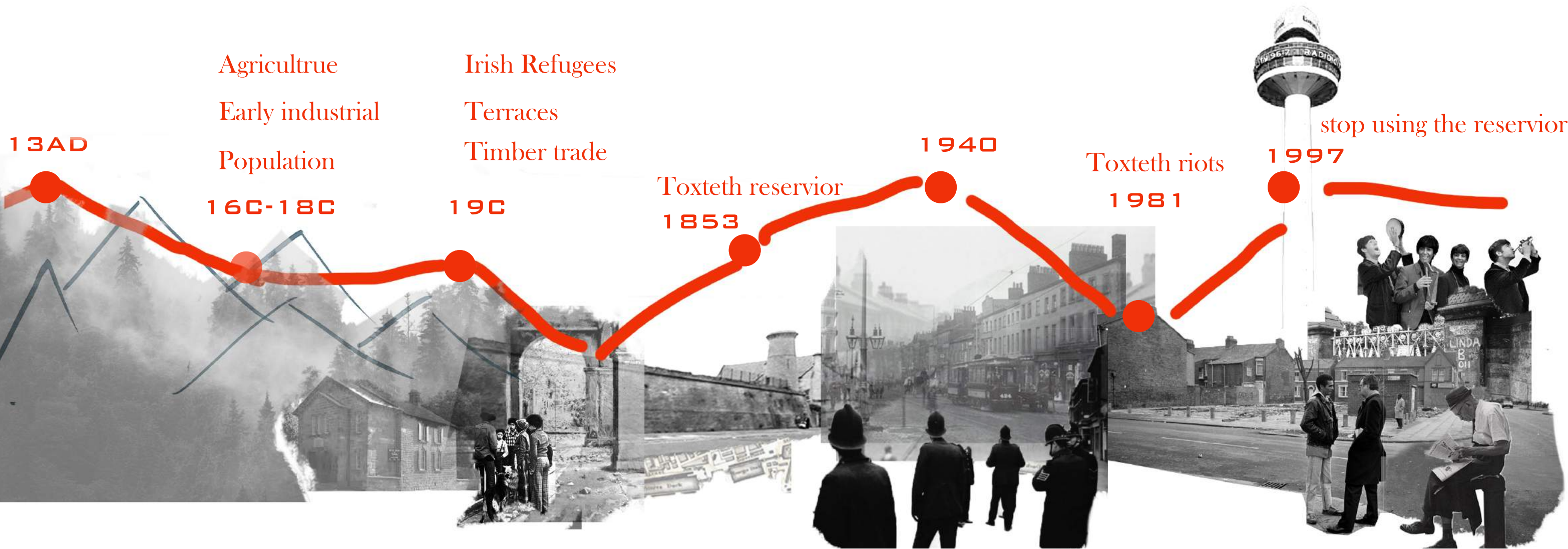
TOXTETH RESERVOIR

OUR LADY OF MOUNT CARMEL RC CHURCH

MOUNT CARMEL PARISH CENTRE

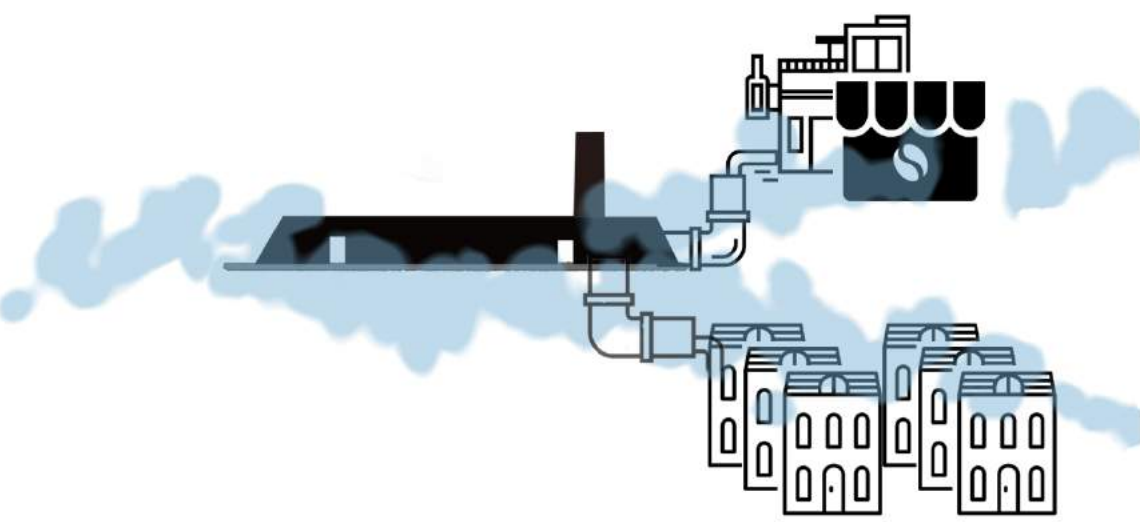
POLICE STATION

HISTORICAL TIMELINE



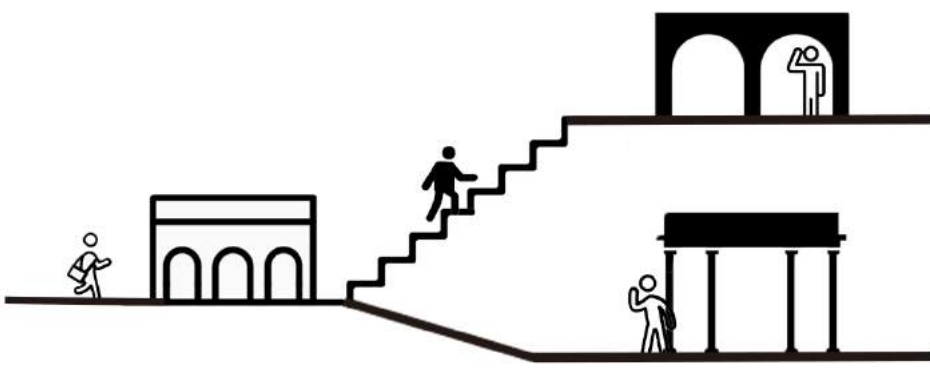
1.thick and tall external sandstone wall
2.arch brick wall line around the building
3.brick-vault ceiling is supported grid of cast-iron columns

DESIGN IDEA



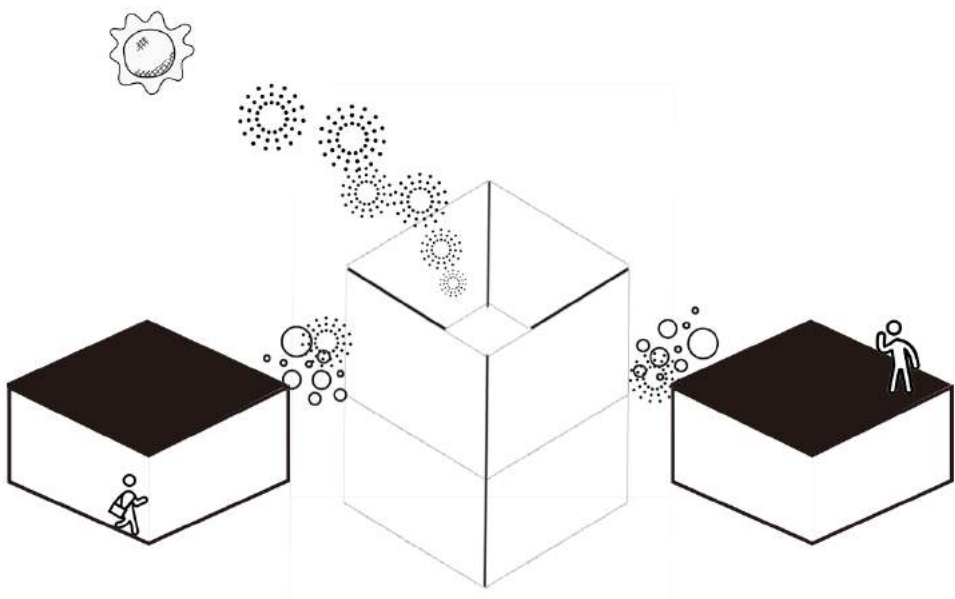
WATER RESERVOIR DISTRIBUTES WATER TO EVERY HOUSES BY WATER PIPES.

Think of people as water
what is the water pipe?



CORRIDOR, STAIR AND EVEN LIFT COULD BE 'A PIPE', TRANSFERING PEOPLE TO ANOTHER SPACE.

EVEN THE PIPE SPACE FOR PEOPLE COULD ACROSS TO EACH ROOM OF THE WHOLE BUILDIGN, AND PEOPLE COULD RAISE AND DOWN IN THIS PIPE SApce...

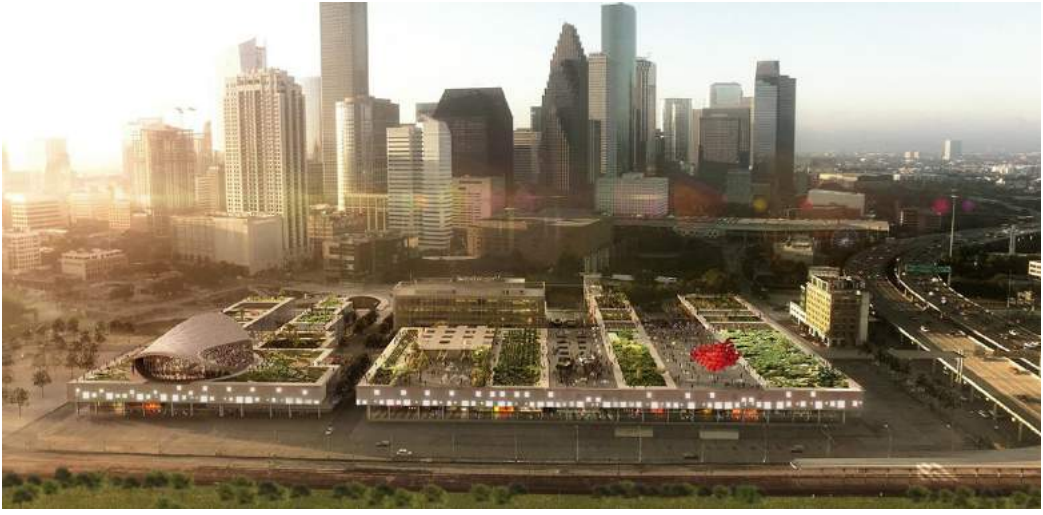
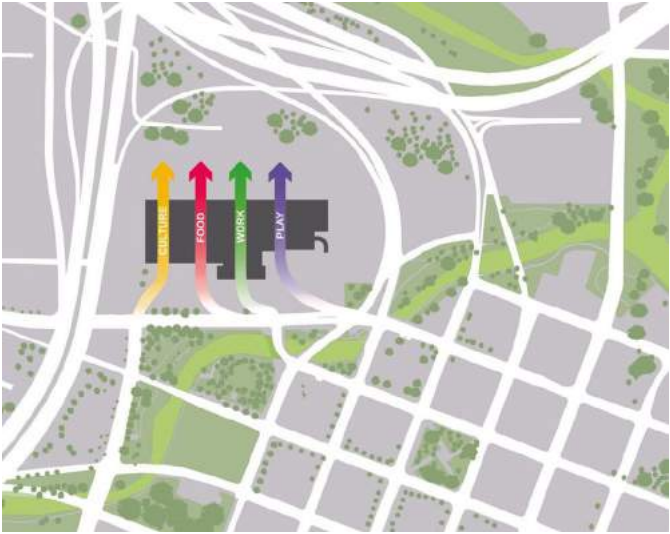


what if sun, air, smell and sound....

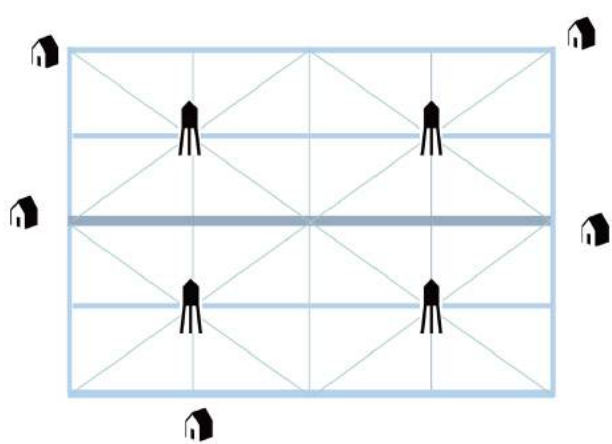
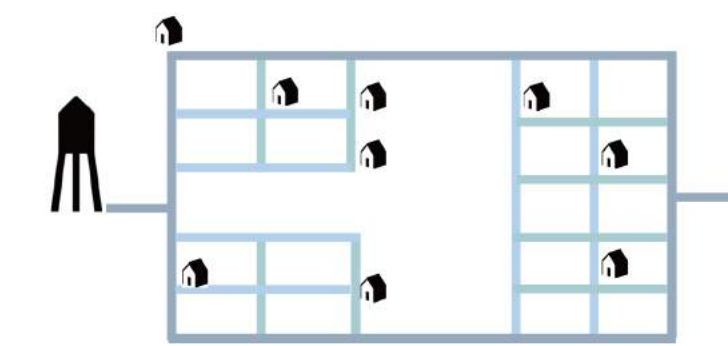
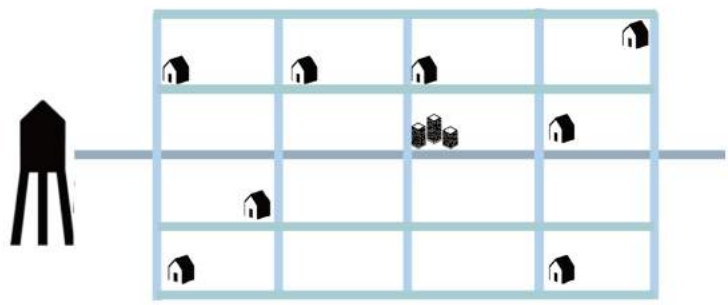
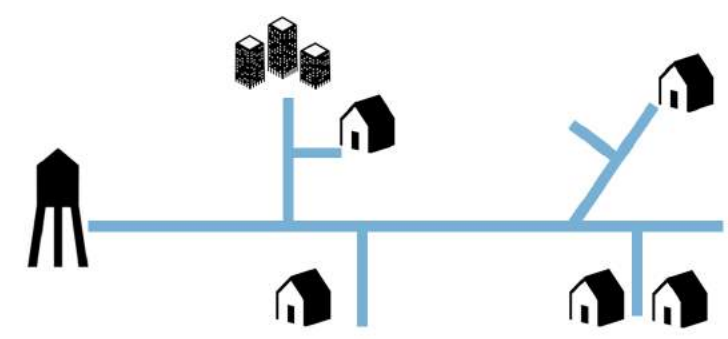
THE INDOOR COURTYARD COULD BE SEEN AS A 'PIPE SPACE' TO TRANSFER FRESH AIR, SUNLIGHT AND VIEW TO EACH ROOM.

AND COURTYARD COULD BE A TRANSITION ZONE, WHICH DIVIDED NOISY AND QUIET SPACE.

PRECEDENT WORK

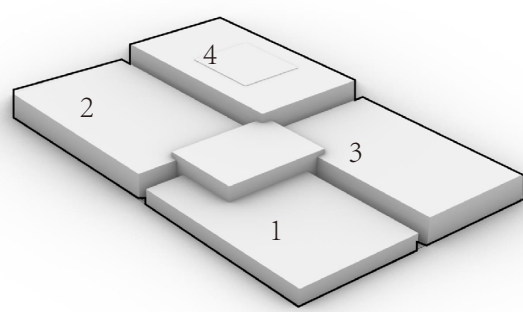
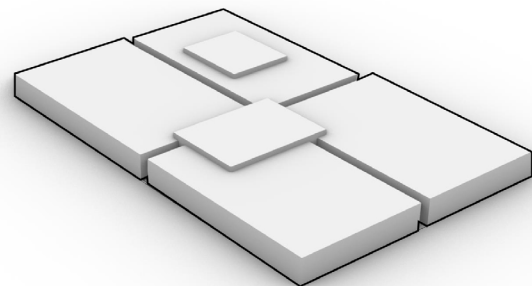
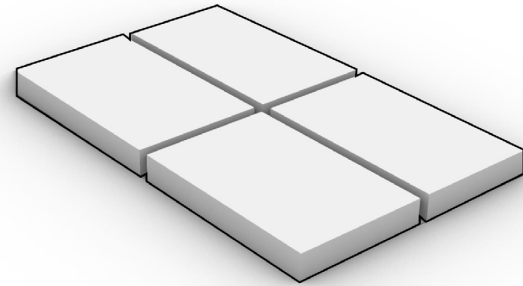
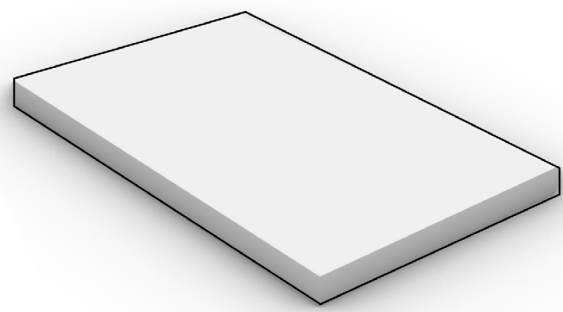


Reuse of Huston post office by OMA.
The site be divided to 4 parts, which are culture, food work and play.
And the empty part be used as vertical circulation and natrual ventilation area.



4 TYPES OF WATER SYSTEM

DESIGN PROCESS

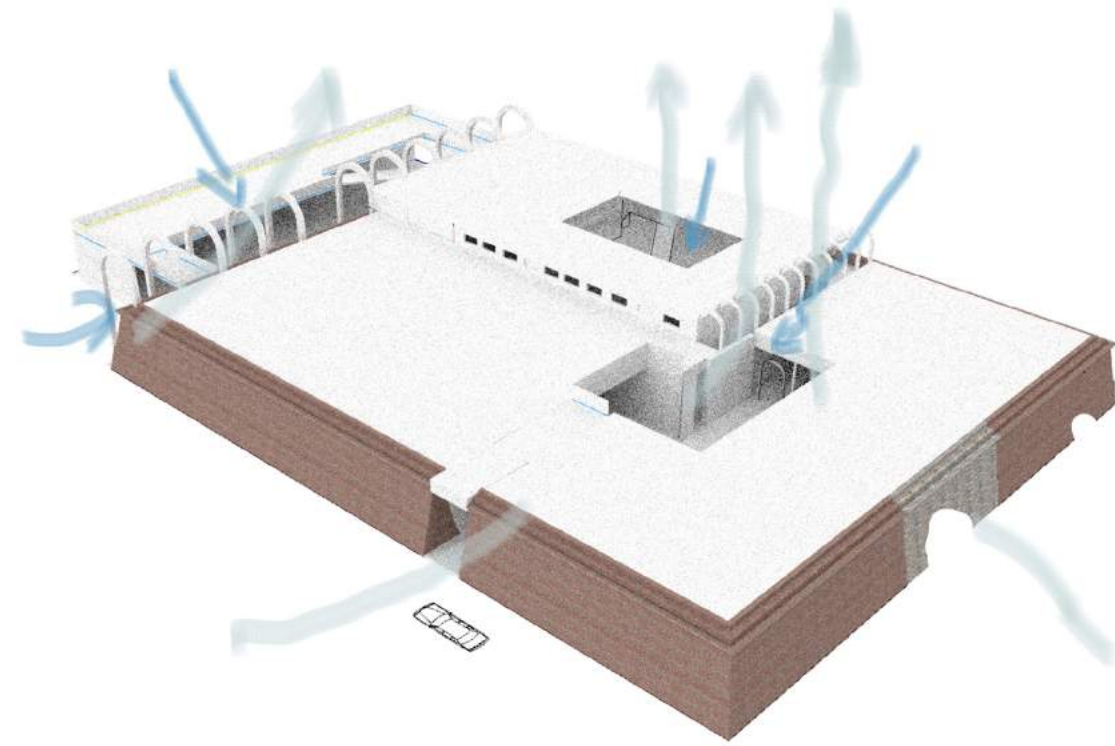


ACCORDING TO THE SOUND LEVEAL AND SUNPATH AROUND THE AREA, THE MAIN FUNCTION ARE LIST AS BELOW

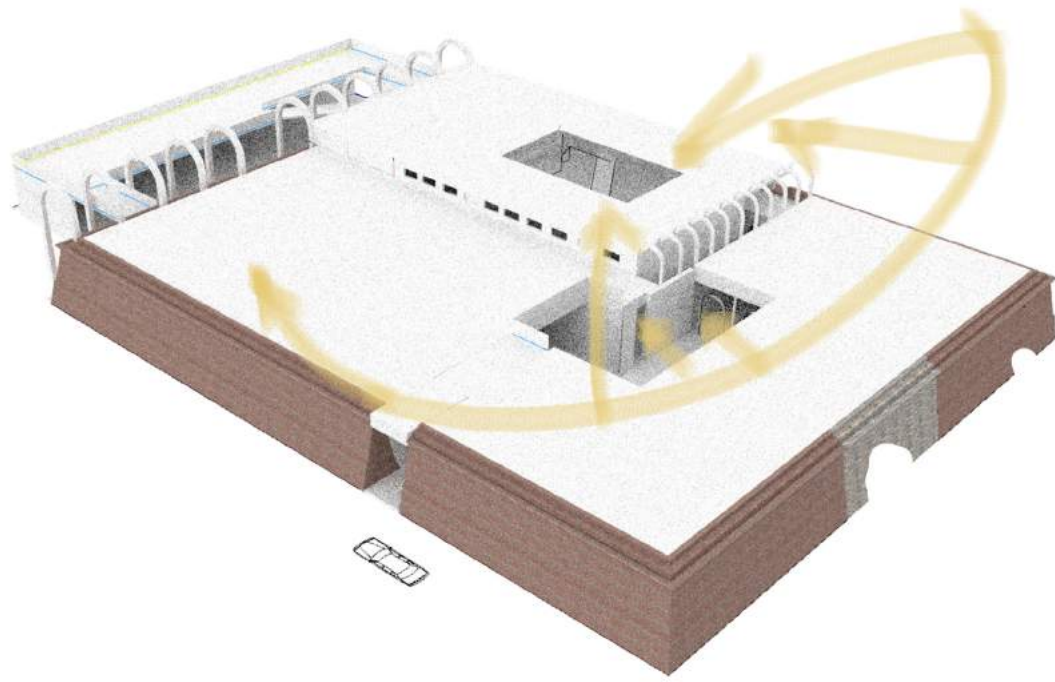
- 1.CAFE, LAUNDERETTE
- 2. EVENT SPACE
- 3.COMMUNITY FLEXIBLE SPACE
- 4.NURSERY AND LERANING SApce

TWO COURTYARD ARE TRANSITION ZONES TO PROVIDE RELAX AREA AND FILTER THE NOISY.

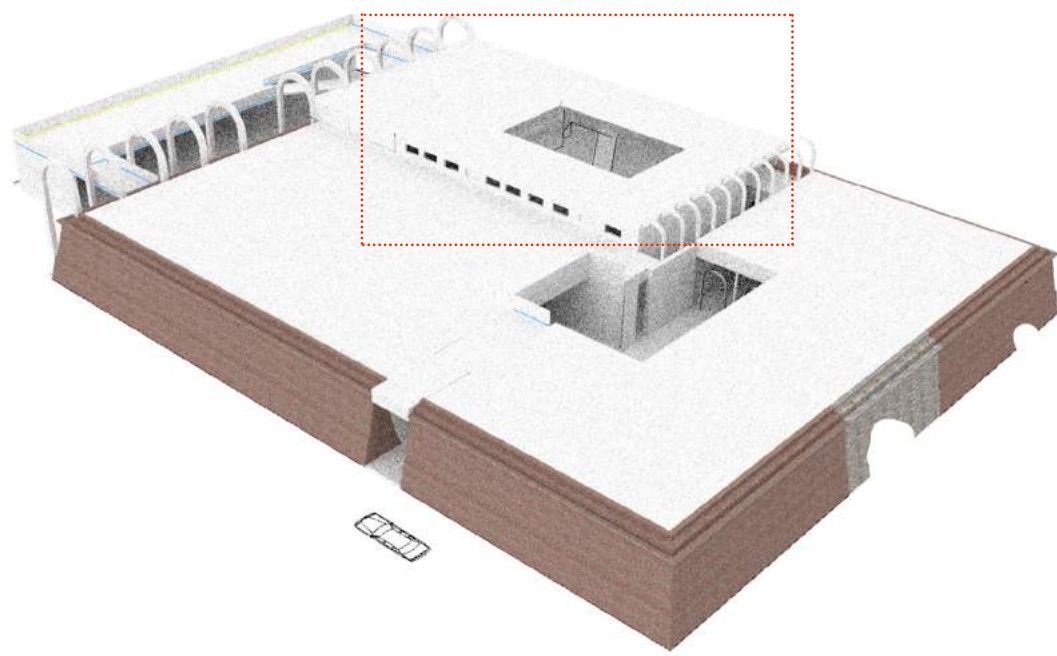
ENVIRONMENTAL STRTEGY AND SITE RESPONSED



NATURAL VENTILATION

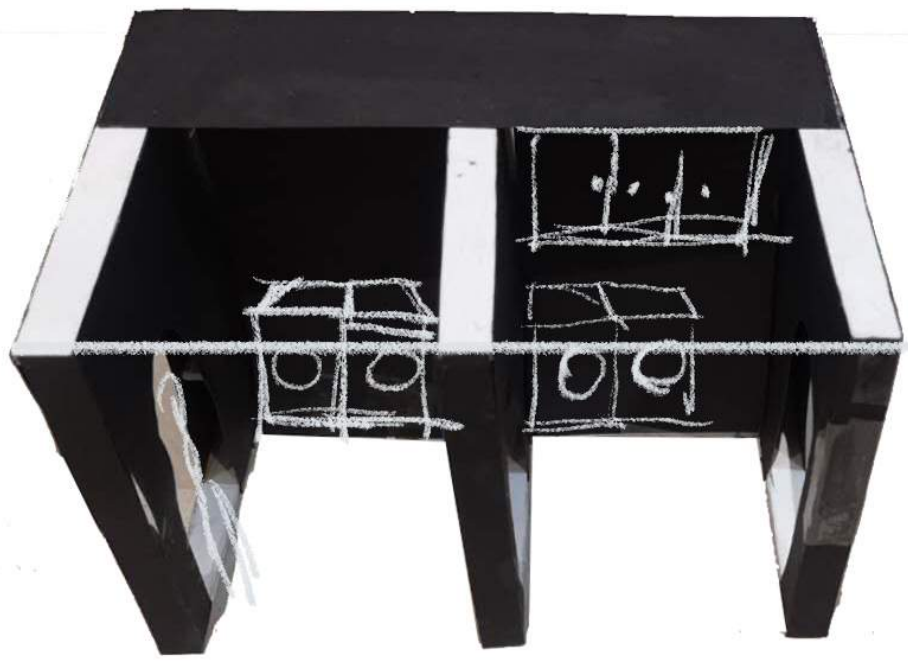


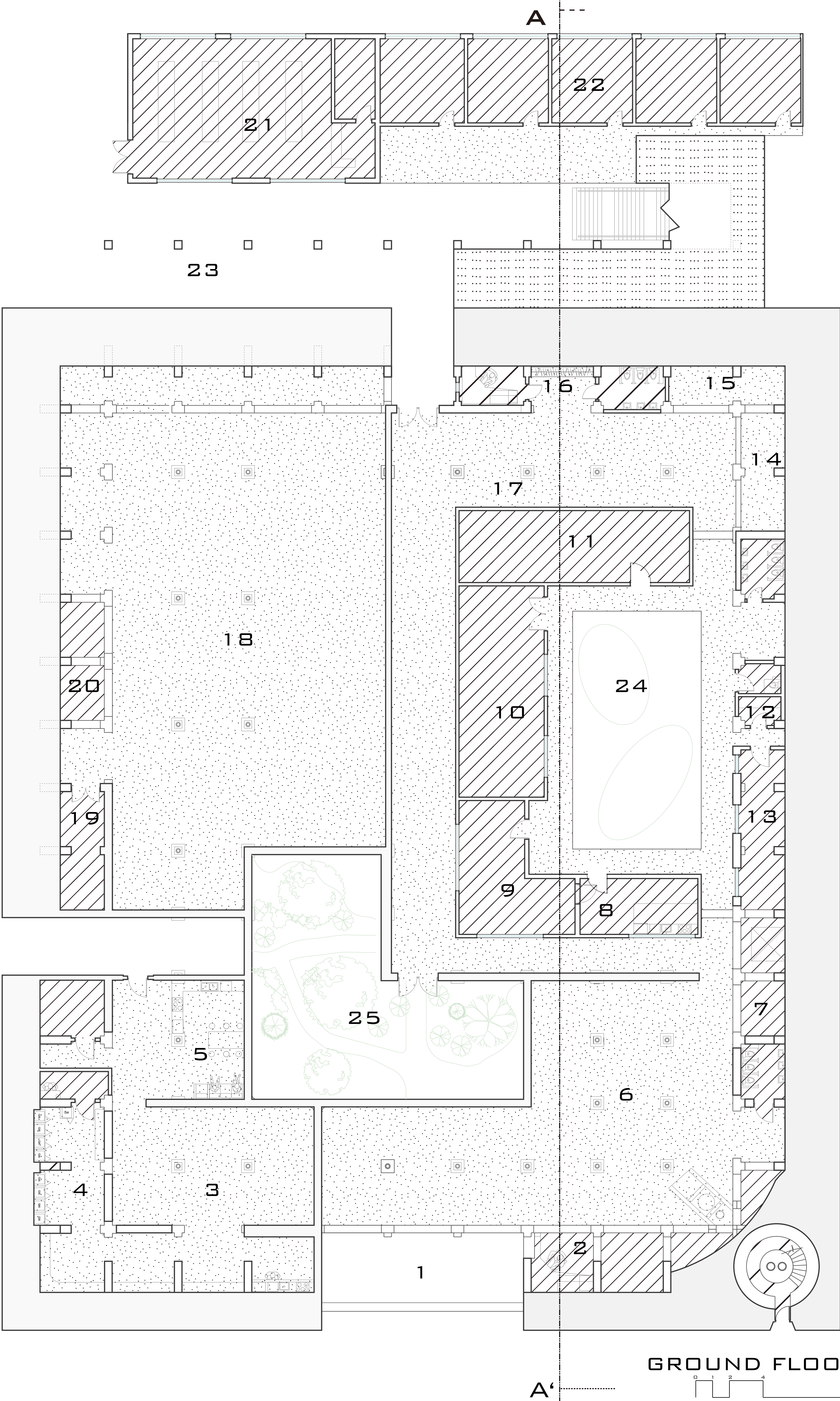
DAYLIGHT FOR GROWING SPACE,COURTYAR AND LIBAREY READING AREA



DISTANT CONTROLLED SKYLIGHT
IT CLOSES IN THE RAINY DAY AND OPENS ON A GOOD WEATHER DAY.
PROVIDE SUFFICIENT LIGHT.

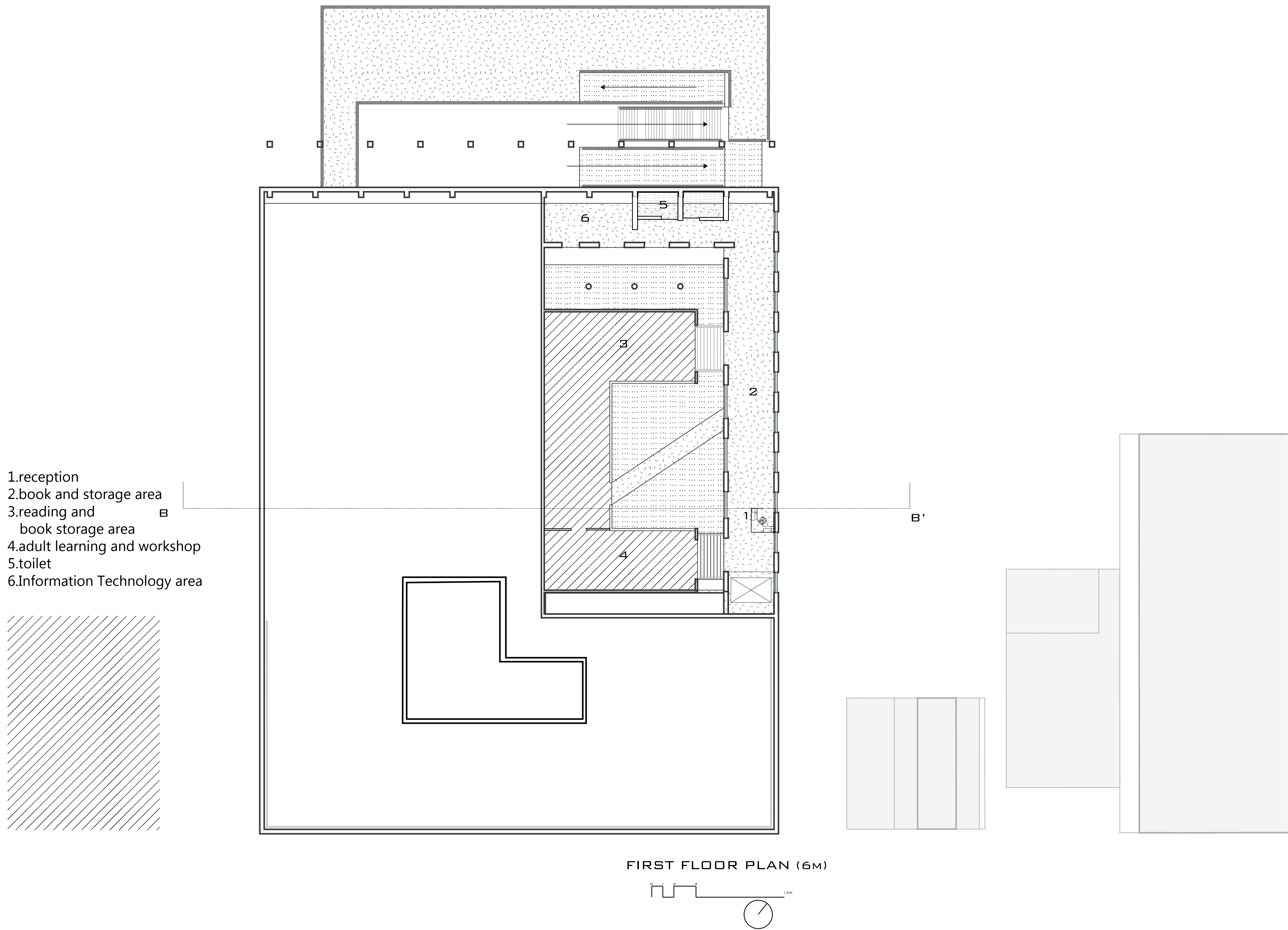
STRUCTRUE INTERPRETATION



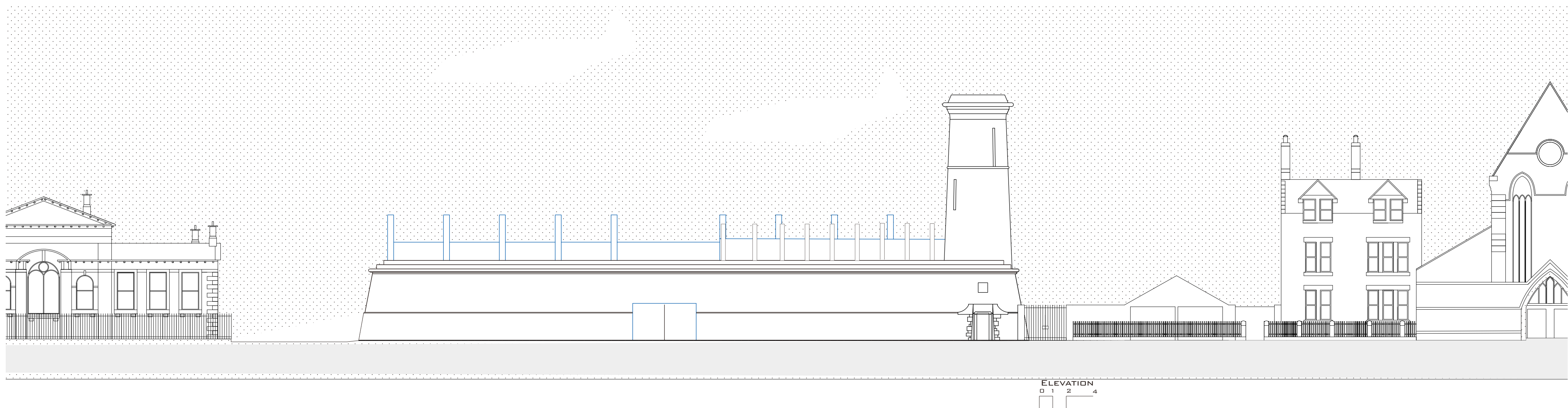


- 1.Main Entrance
- 2.reception
- 3.cafe
- 4. Launderette
- 5.community kitchen
- 6.flexible community space
- 7.plant room
- 8.nursery kitchen
- 9.children reading area
- 10.toddler play room
- 11.pre-school play room
- 12.nappy change room
wheel chair toilet
- 13.quiet room for rest
- 14. staff office
- 15.meeting room
- 16. reception with
buggy/scooter storage
- 17. parent wating area
- 18.event space
- 19.equipment storage
- 20.toilet
- 21. food shop
- 22. business incubator
- 23. bicycle parking area
- 24. outdoor play area
- 25. courtyard

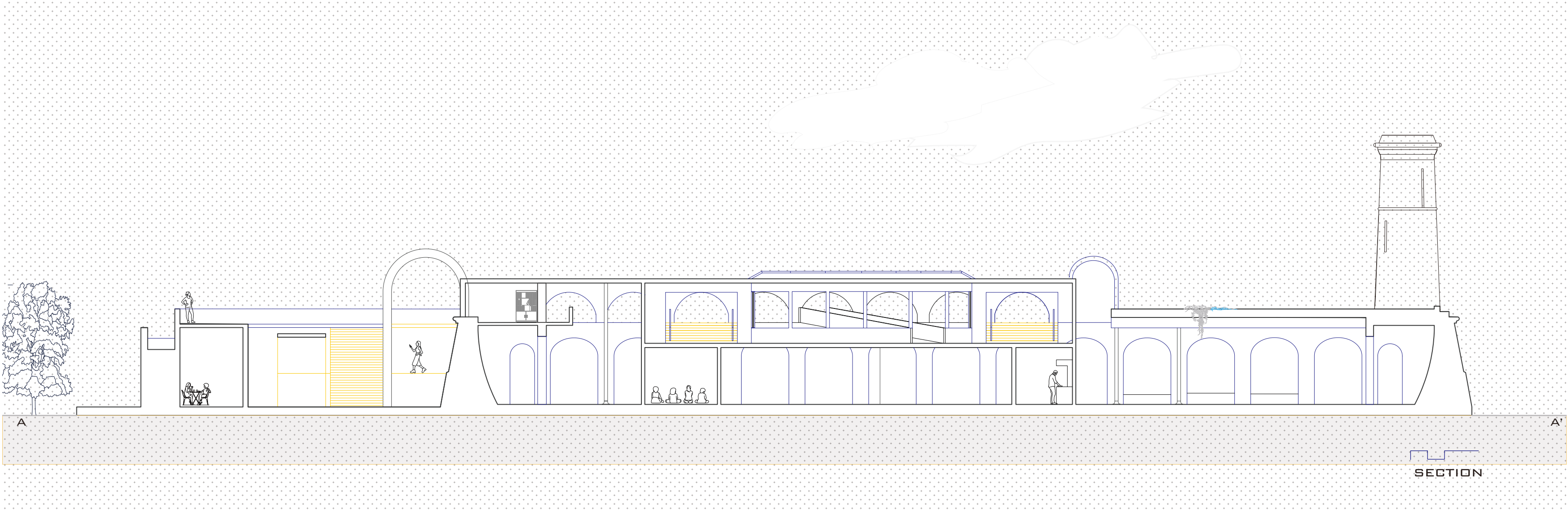
GROUND FLOOR PLAN



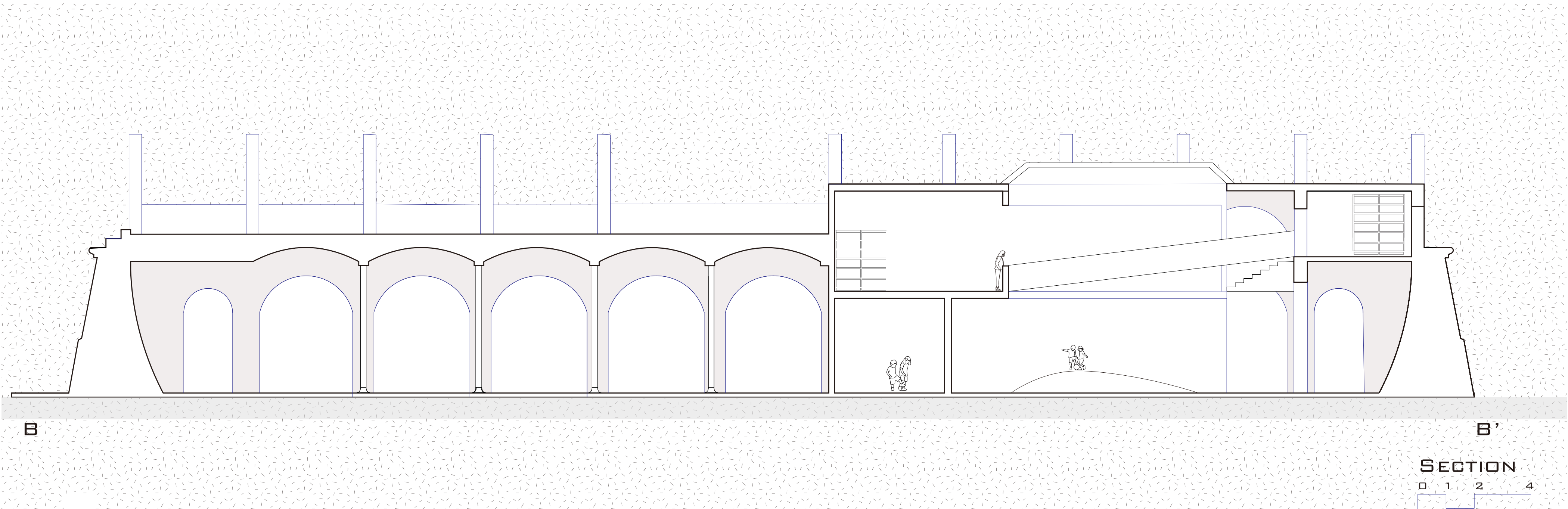
ELEVATION(1:200)

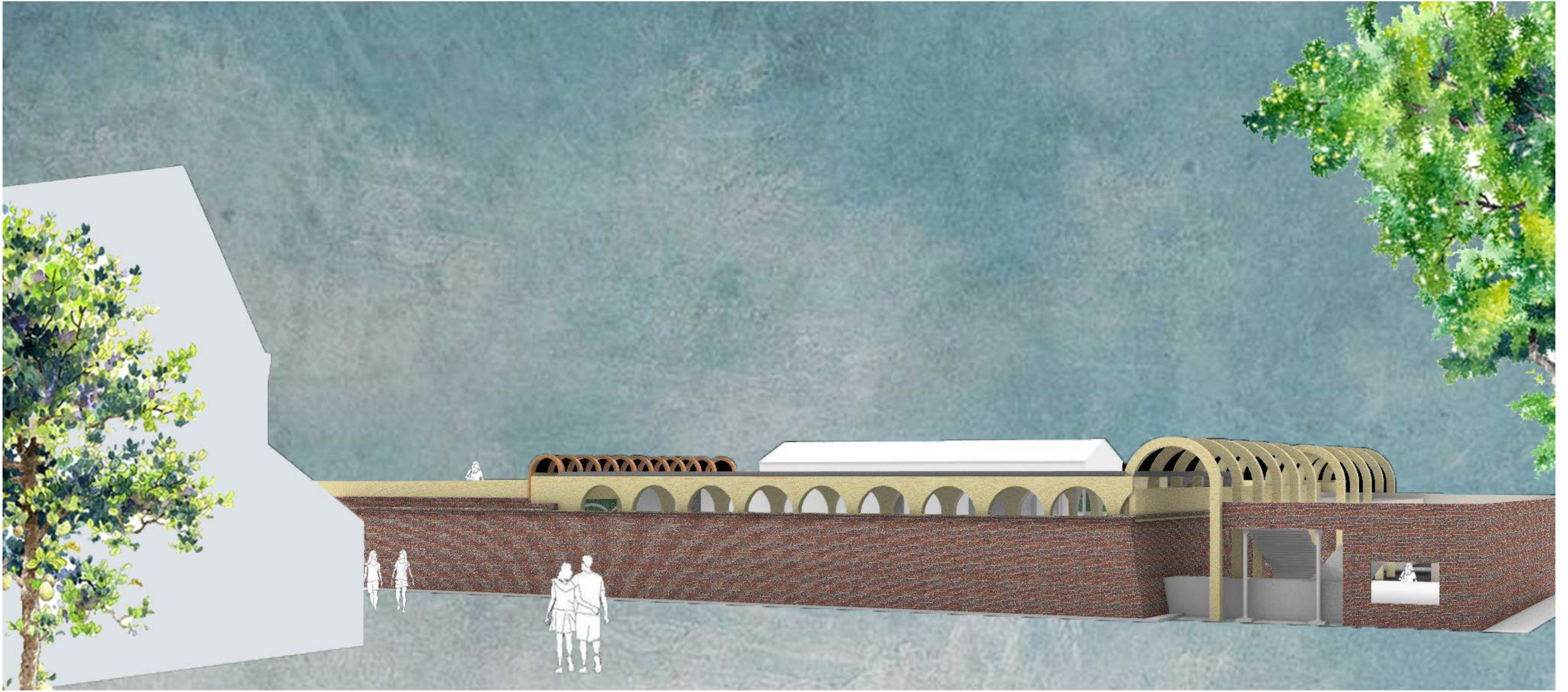


SECTION(1:200)



SECTION(1:100)





EXTERIOR PERSPECTIVE FROM NORTH-EAST DIRECTION



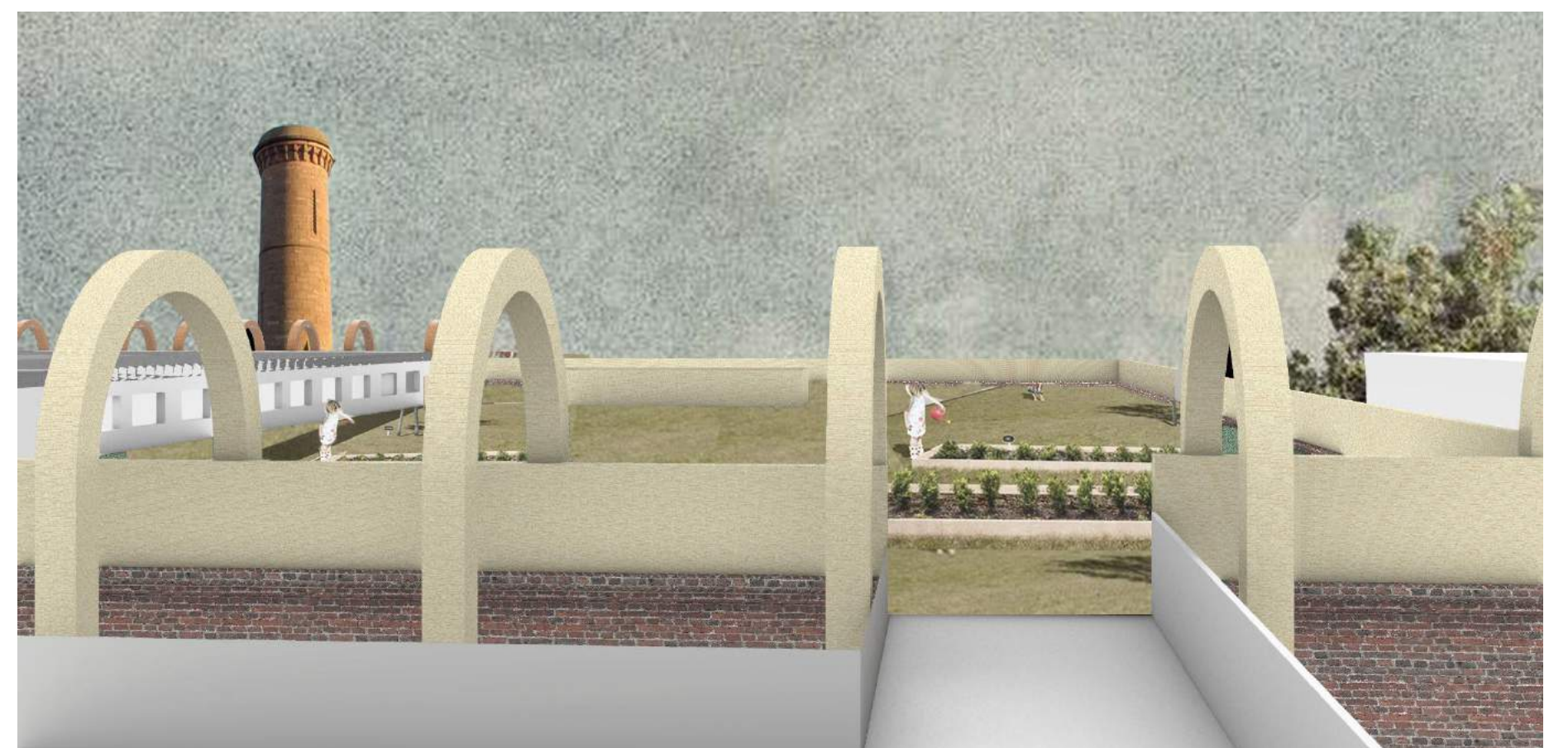
CAFE AREA



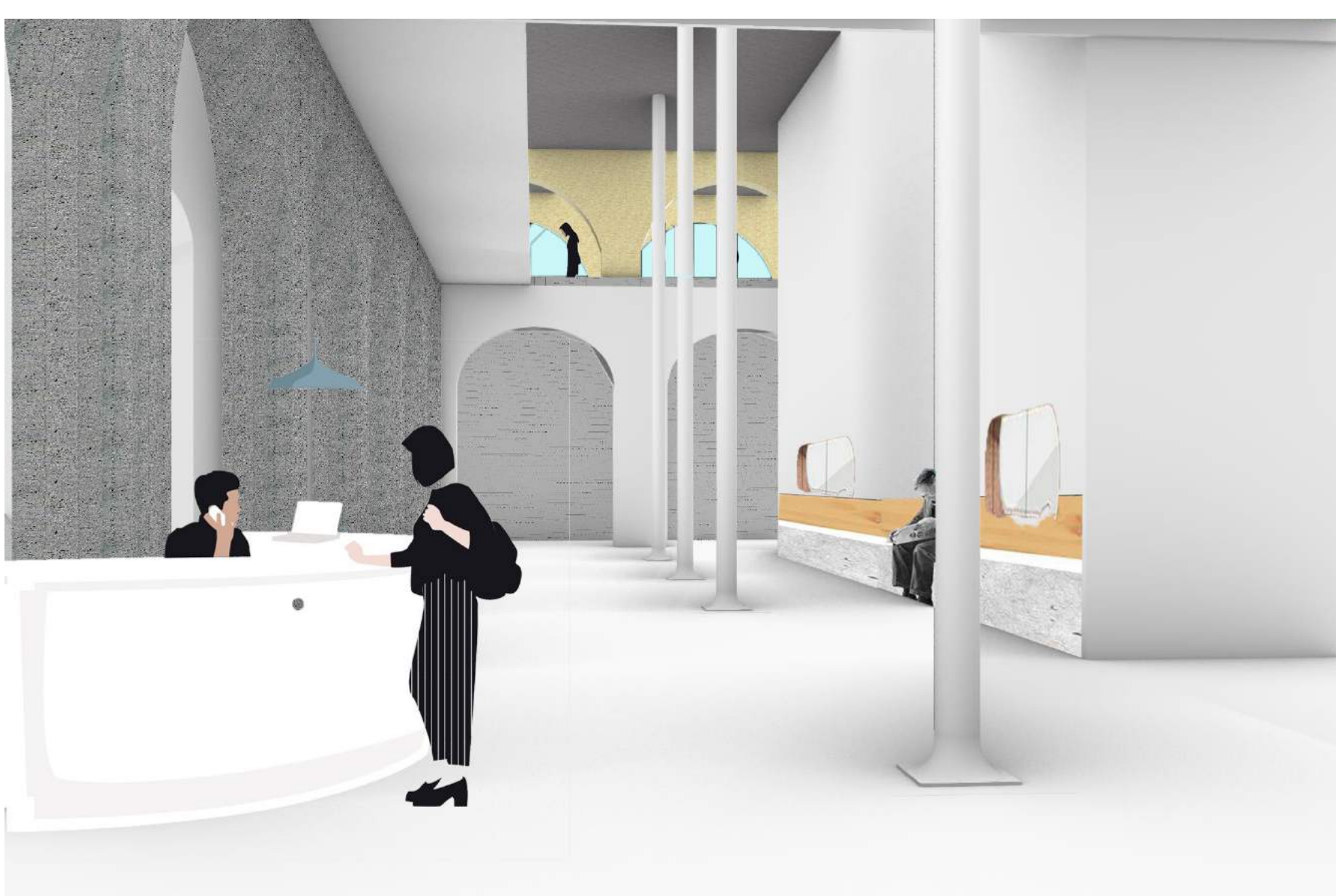
FLEXIBLE COMMUNITY SPACE



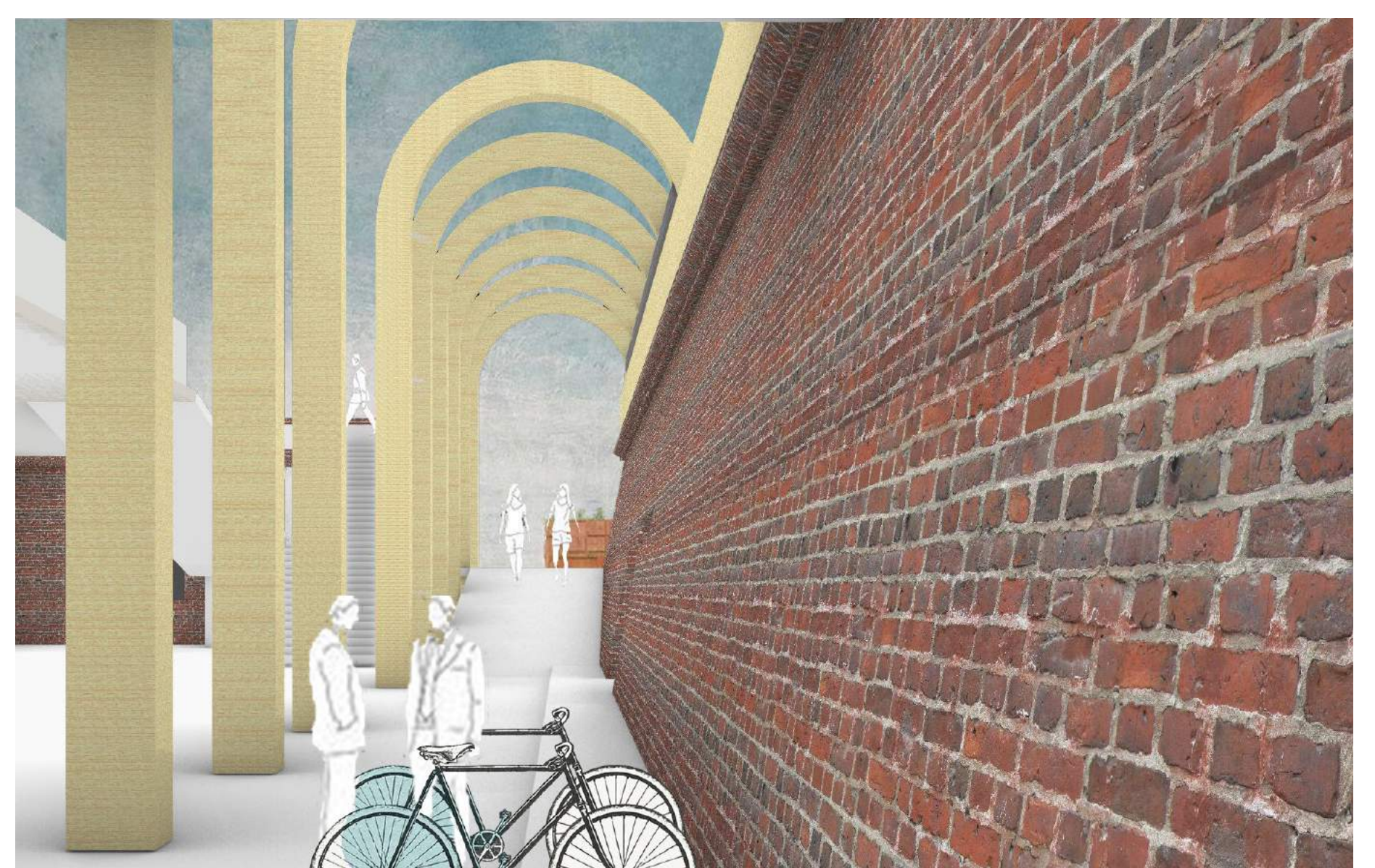
LIBRARY READING AREA



OUTDOOR GROWING SPACE ON THE TOP OF THE ROOF

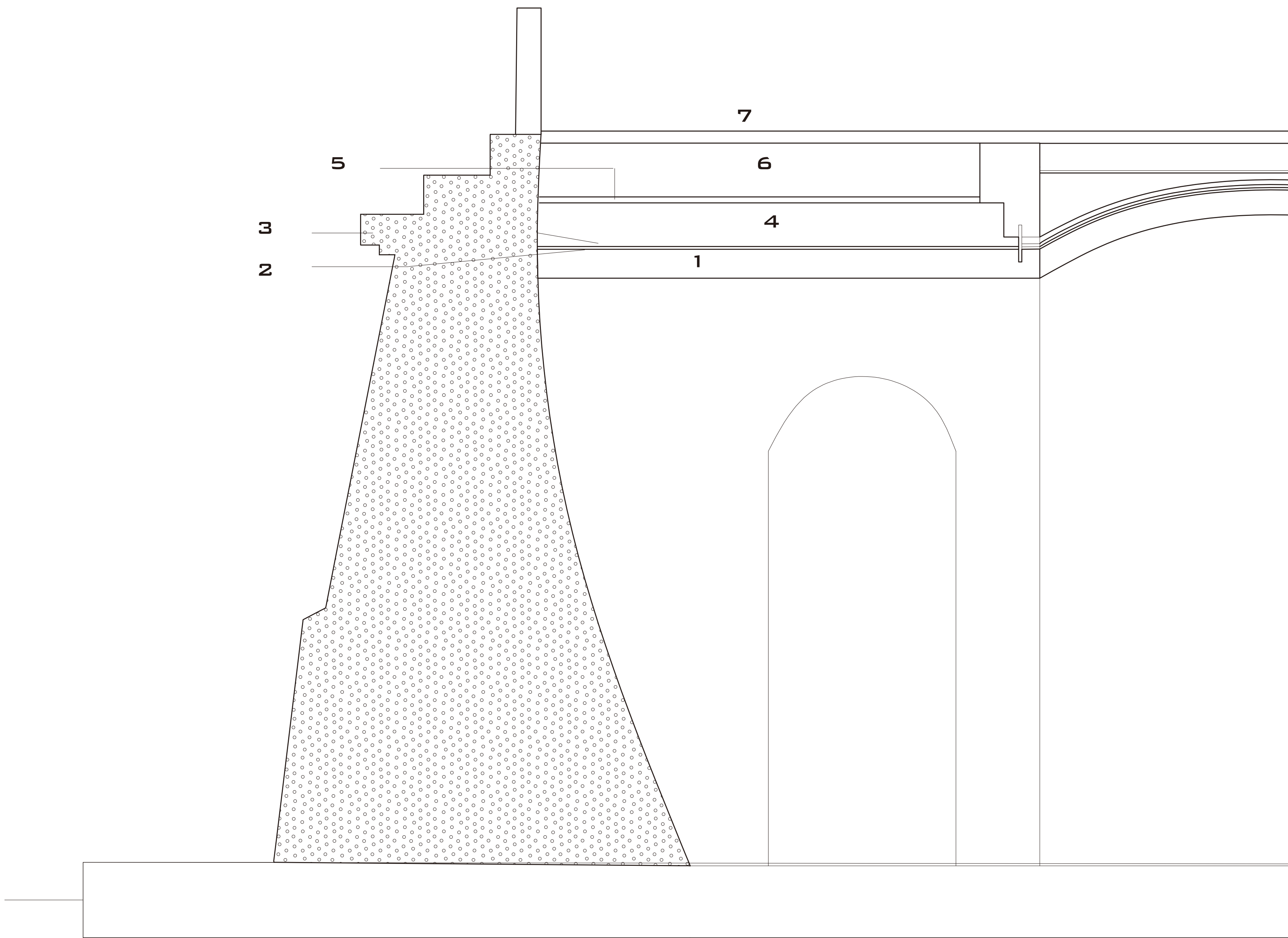


NURSERY RECEPTION AND PARENTS WAITING AREA



BACK OF THE RESERVOIR BICYCLE PARKING AREA AND SLOPE ACCESS TO THE ROOF

- 1.ROOF DECK
- 2.PROTECTION BOARD
- 3.WATERPROOF MEMBRANE
- 4.INSULATION
- 5.DRAINAGE/STORAGE LAYER
- 6.FILTER FABRIC
- 7.GROWING MEDIUM
- 8.PLANTS



1:20
STRUCTRUE SECTION
OUTDOOR GROWING PART