

Re-visiting the City
AI_715_Design Thesis

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M.Arch 2
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STUDIO 02



Brief 1

London Road Car Park Vertical Farming

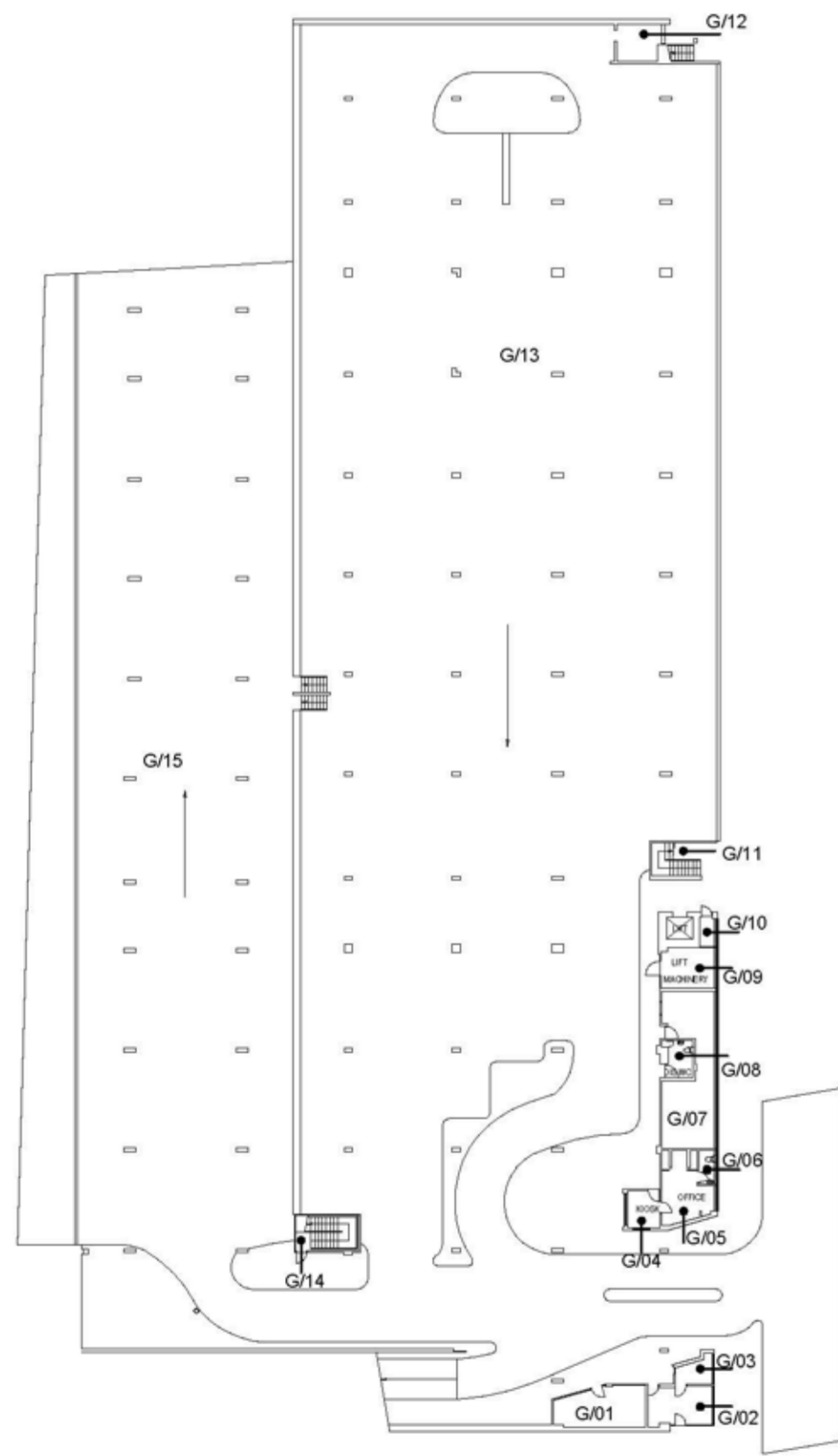
London Road Car Park

Site Pictures

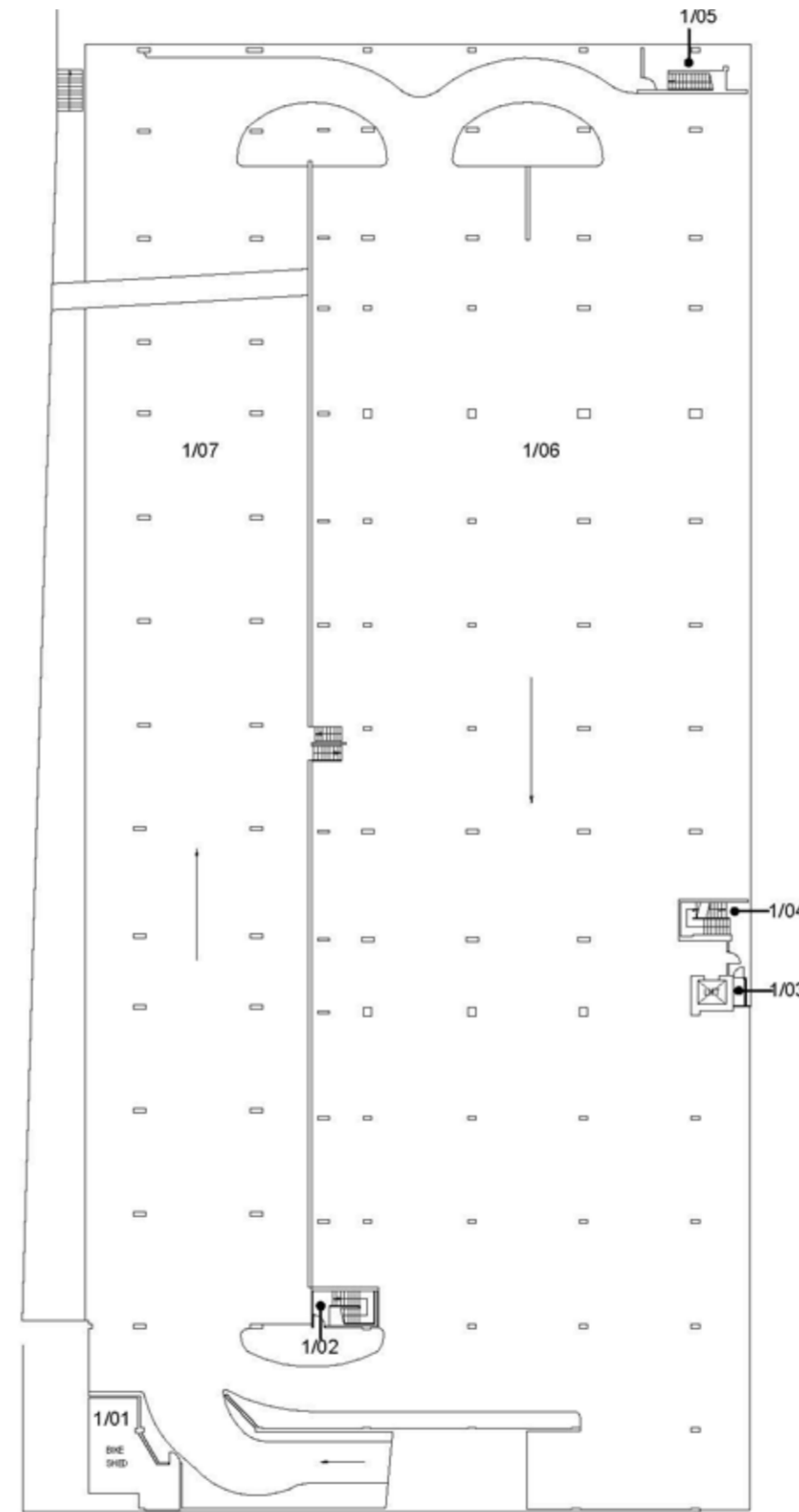


London Road Car Park

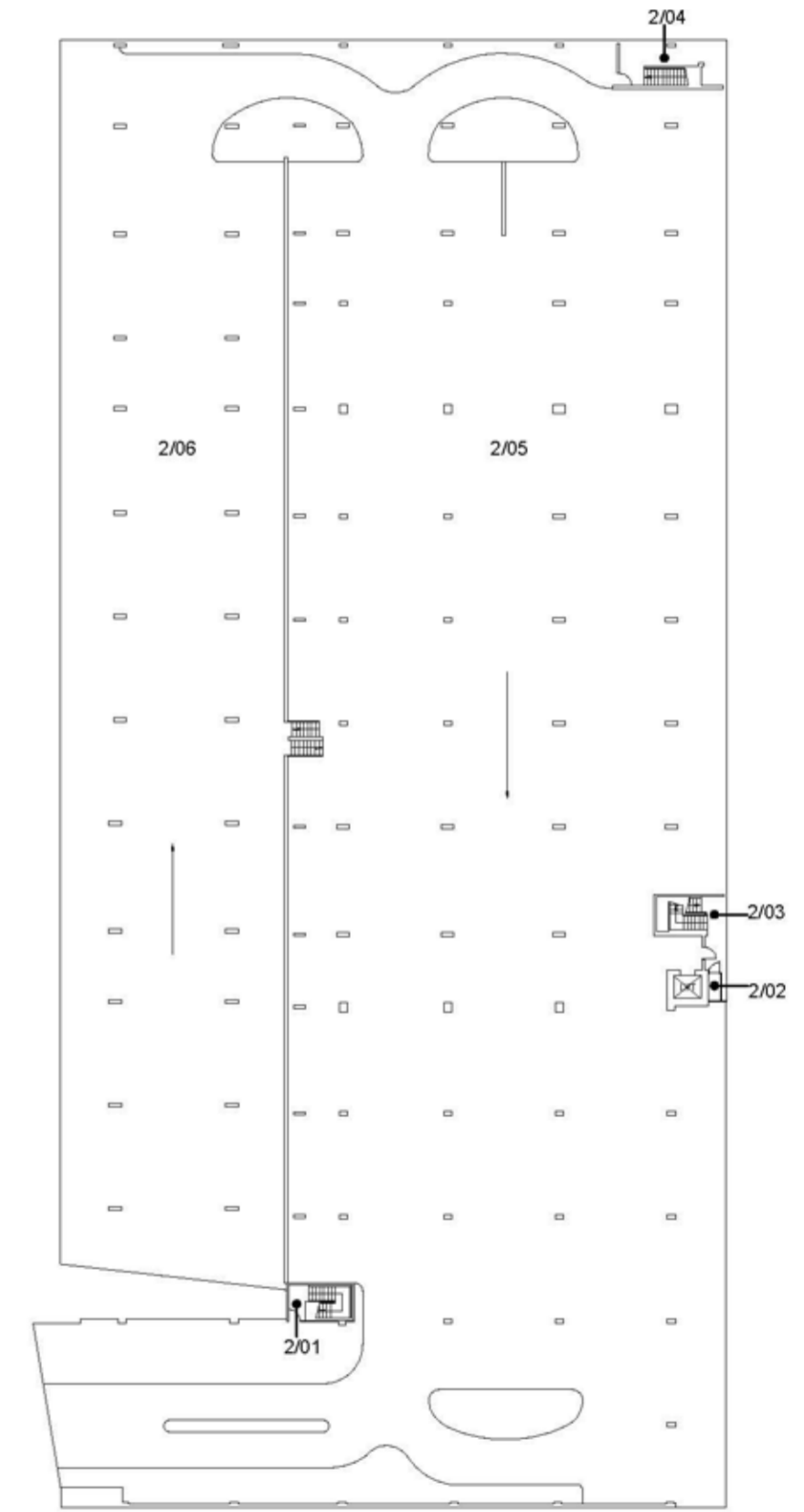
Existing Site Plans



LONDON ROAD LEVEL

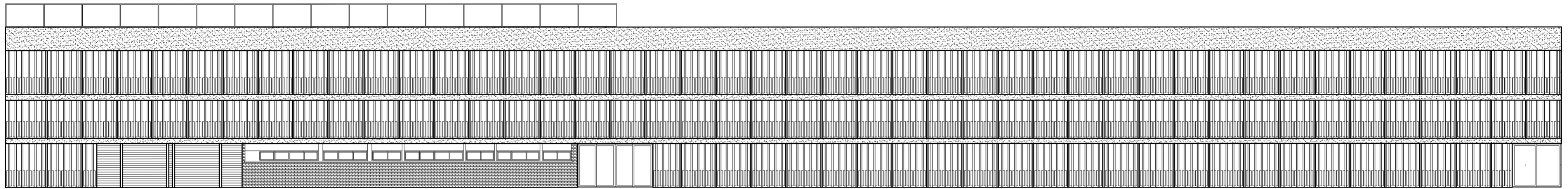


MIDDLE LEVEL

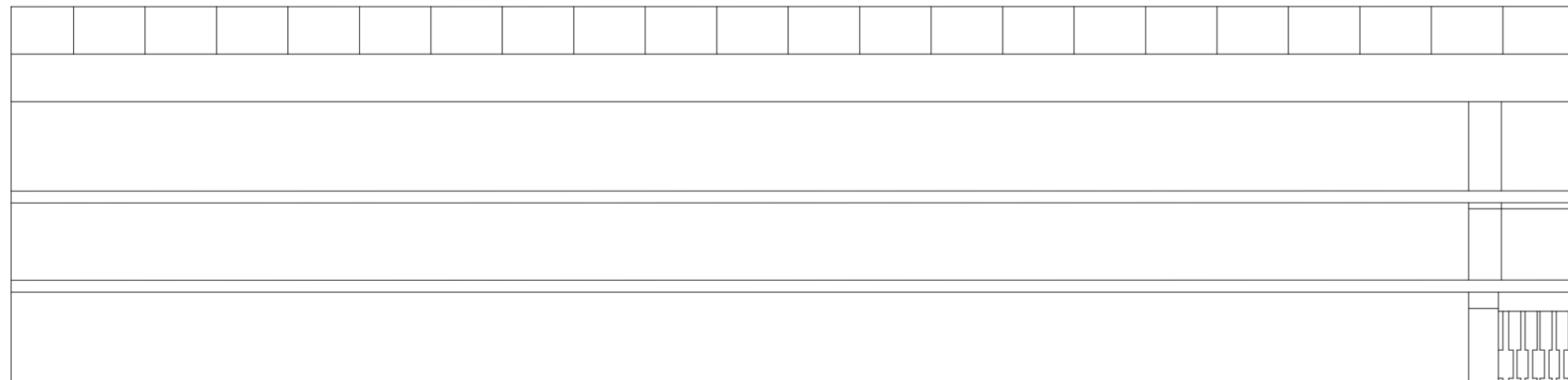


NEW ENGLAND ROAD LEVEL

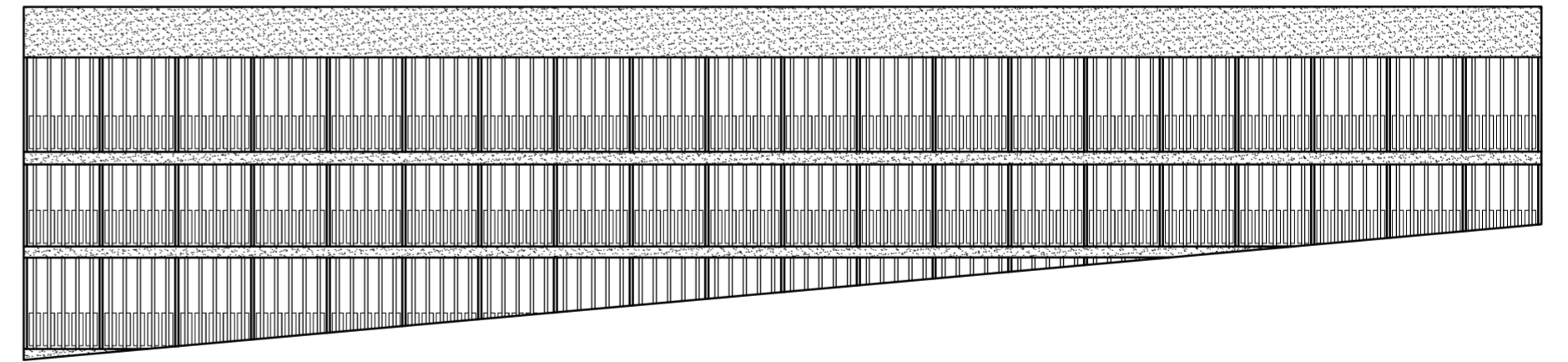
Existing Site Elevations



London Road Car Park
East Elevation
Scale 1:100



London Road Car Park
South Elevation
Scale 1:100



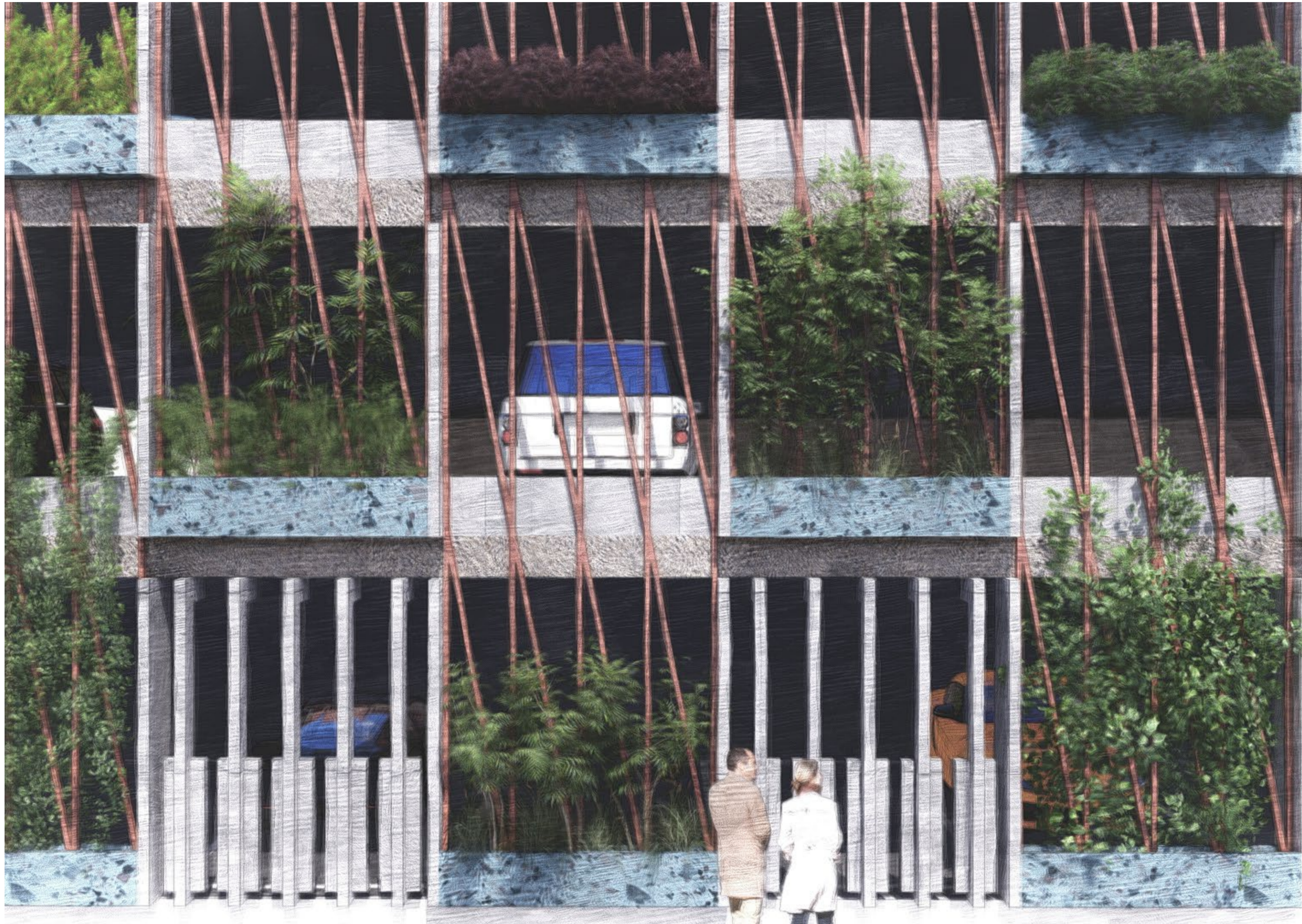
London Road Car Park
North Elevation
Scale 1:100

Concept Development 1



East view of the London Road Car Park

Concept Development 2



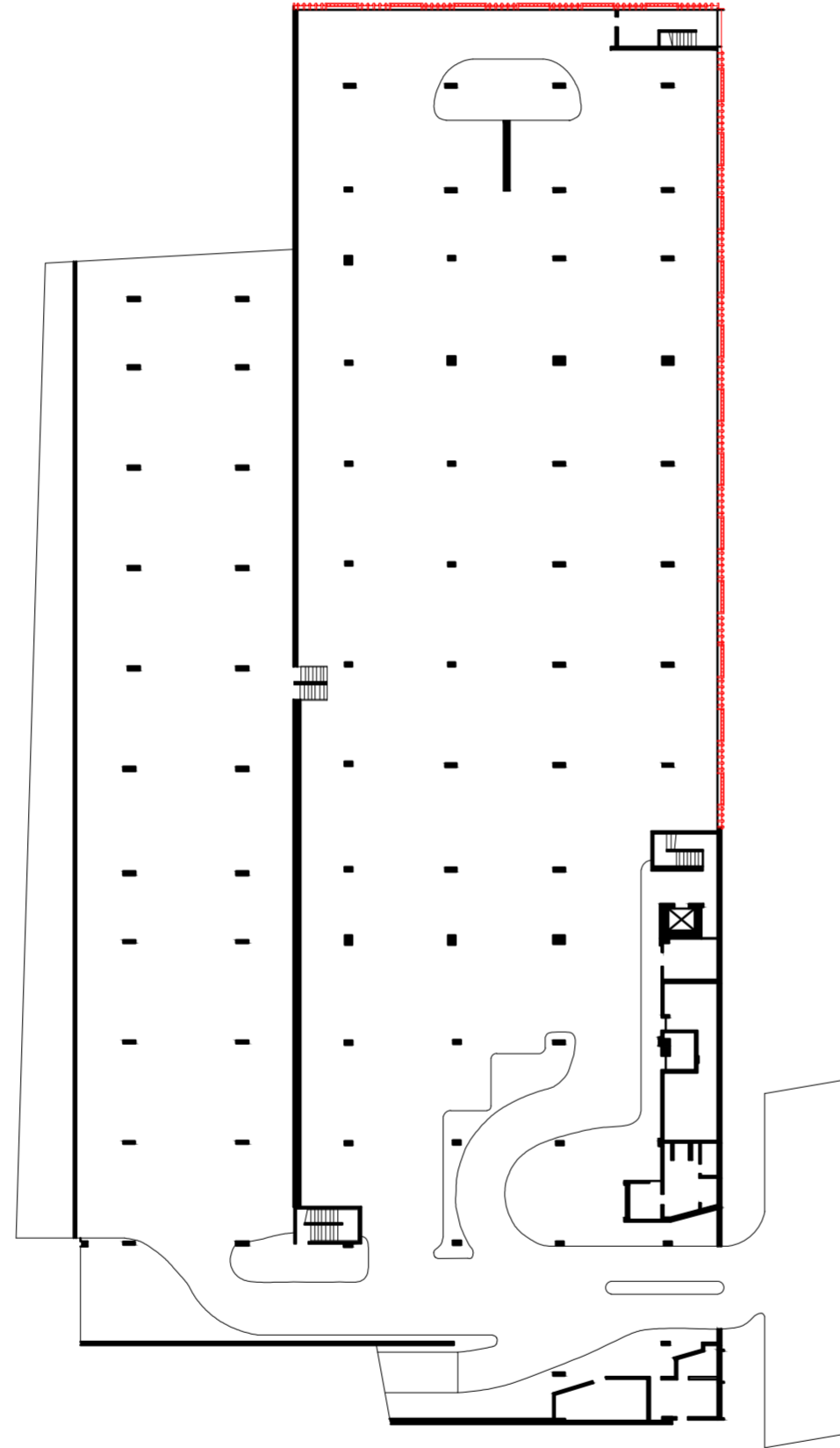
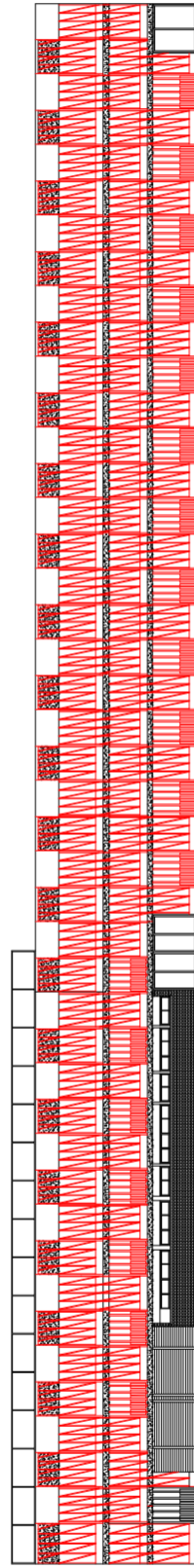
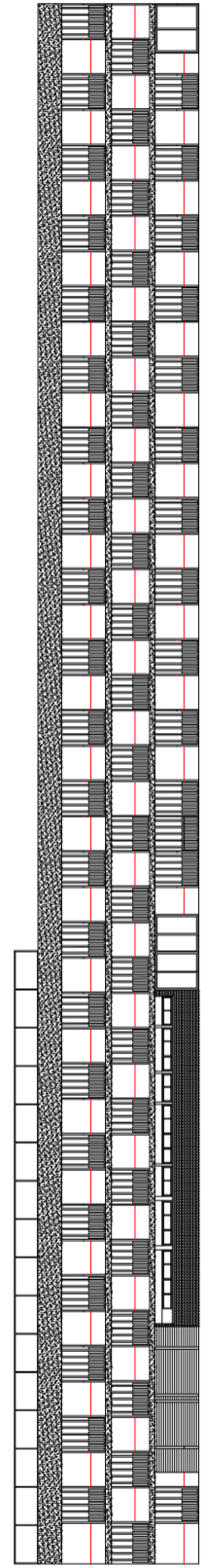
East view of the London Road Car Park

Concept Development 2

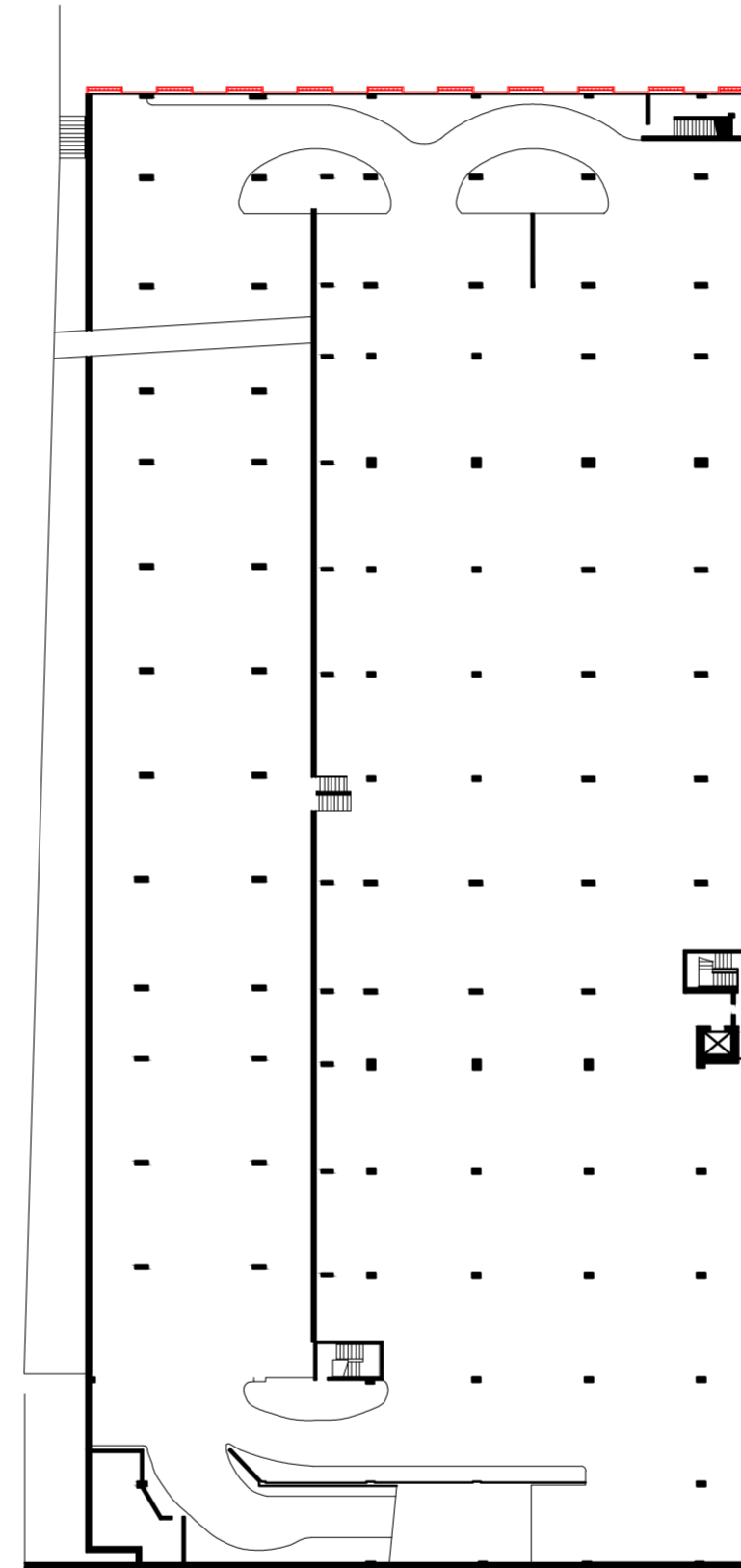
Plans

Elevations

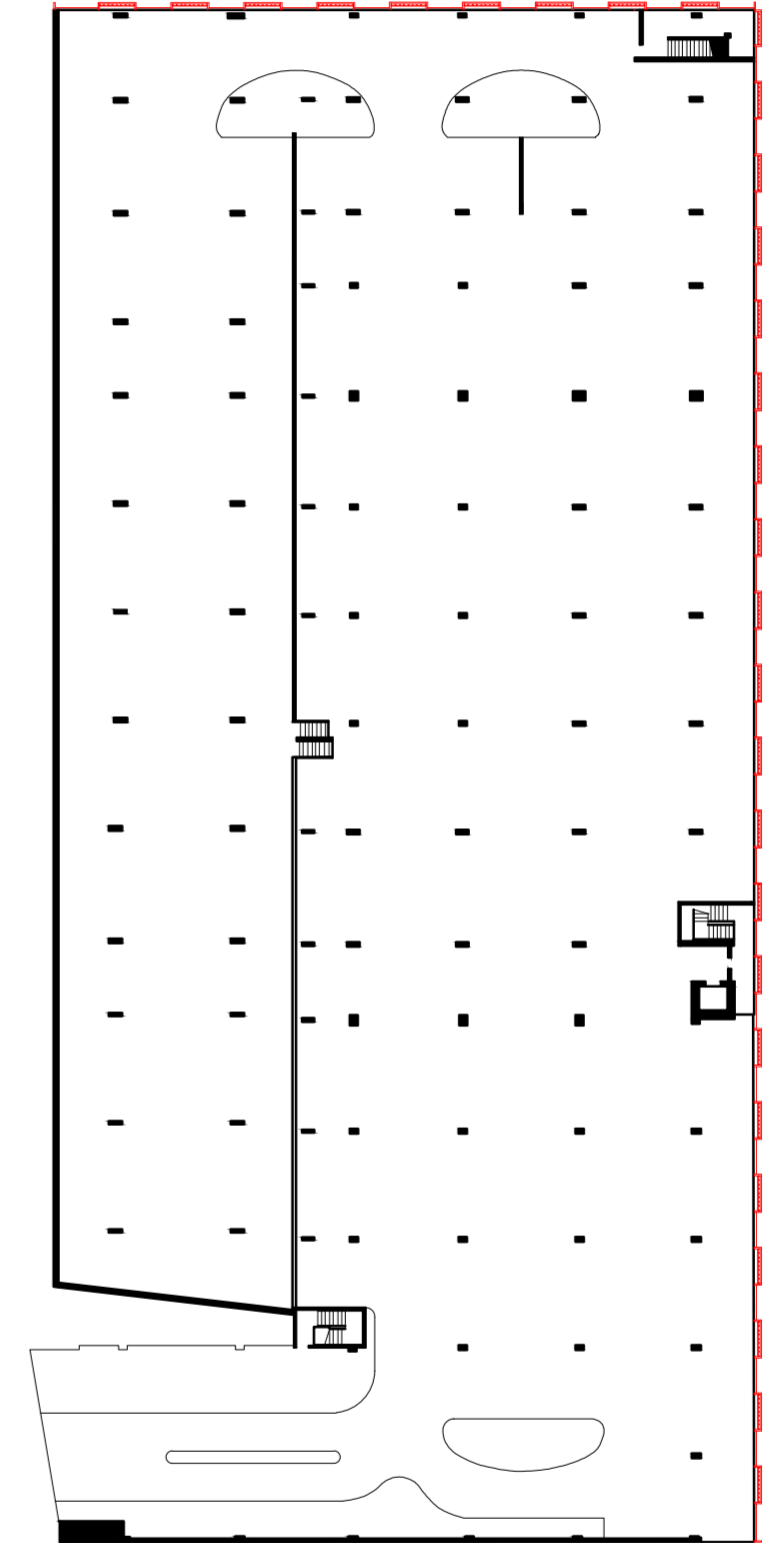
Scale 1:100



LONDON ROAD LEVEL



MIDDLE LEVEL



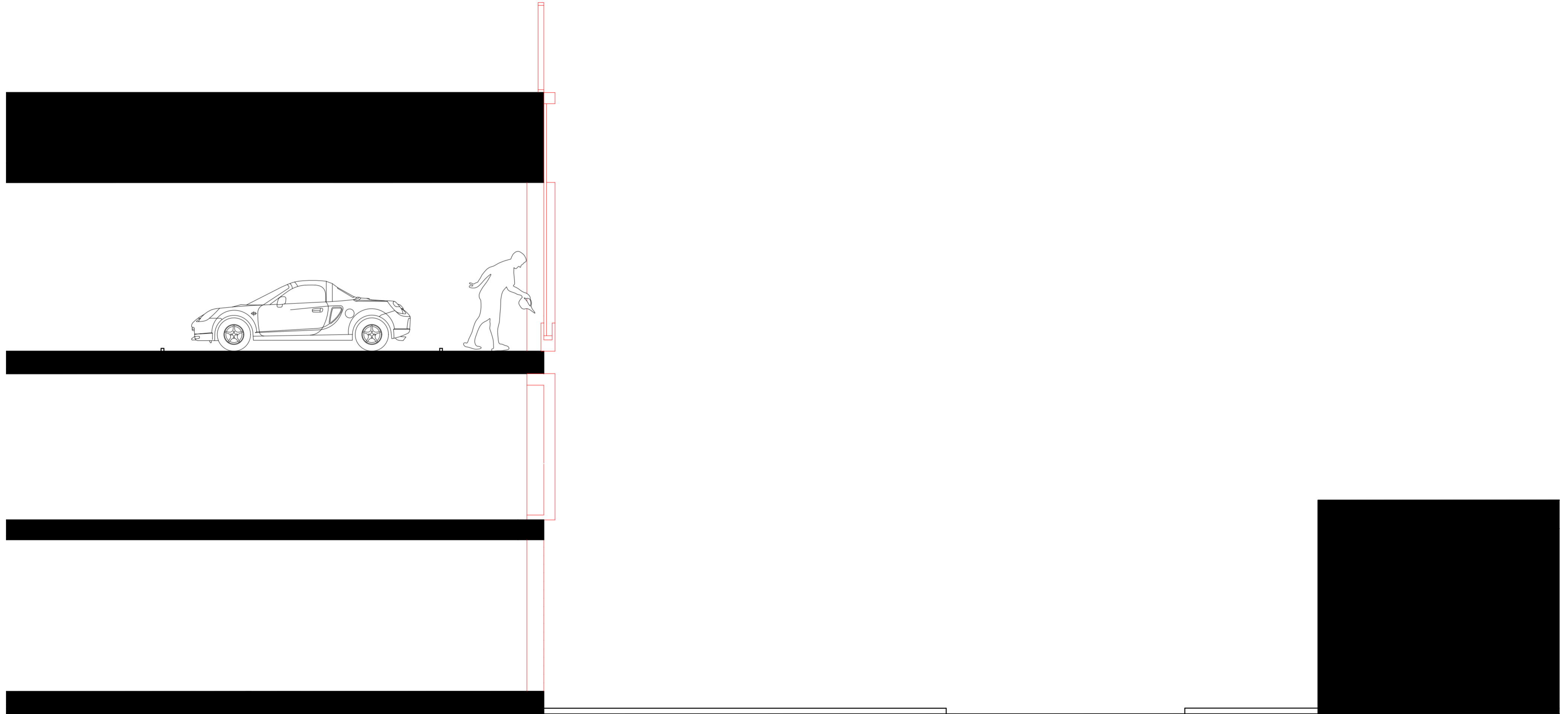
NEW ENGLAND ROAD LEVEL

Existing

Proposed

Concept Development 2

Section
Scale 1:50



Testing how growers can access the vertical farm and how the crops can grow

Concept Development 2

Visuals



Concept Development 2

Visuals
In relation to
context



Concept Development 2

Visuals
Street View



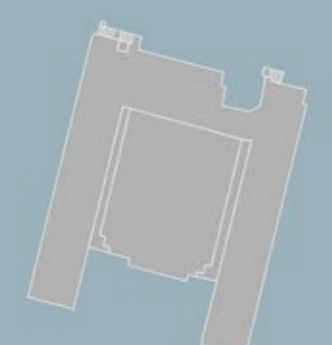
Exploded Axo



Hotel Research



Hotel Map
Scale 1:1000



137 Kings Rd, Brighton BN12JF
4*
Free Wi-fi
Paid breakfast
Parking
Disable access
Air conditioned
Laundry service
Pet friendly
Room service
Child friendly
Restaurant
Airport shuttle
Bar
Smoke free

Holiday Inn

Kings Rd, Brighton
BN12FU
4*
Paid Wi-fi
Paid breakfast
Paid parking
Disable access
Indoor pool
Laundry service
Pet friendly
Beach access
Room service
Restaurant
Spa
Fitness centre
Bar

Hilton Metropole

97-99 Kings Rd,
Brighton BN12FW
4*
Free Wi-fi
Paid breakfast
Paid parking
Air-conditioned
Disable access
Laundry service
Business centre
Pet friendly
Beach access
Room service
Child friendly
Restaurant
Bar
Smoke free

The Grand Hotel

West St, Brighton BN12RE
3*
Wi-fi
Breakfast
Disable access
Pet friendly
Child friendly
Restaurant
Bar
Smoke free

Travelodge Brighton

32-38 Kings Rd, Brighton BN11NR
4*
Free Wi-Fi
Paid breakfast
Paid parking
Disable access
Laundry service
Pet friendly
Beach access
Room service
Child friendly
Restaurant
Fitness centre
Bar
Smoke free

The Old Ship Hotel

Kings Rd, Brighton
BN12GS
4*
Free Wi-Fi
Paid breakfast
Paid parking
Disable access
Indoor pool
Laundry service
Beach access
Room service
Child friendly
Restaurant
Hot tub
Spa
Fitness centre
Bar
Smoke free

Jurrys Inn Hotel

35 Old Steine, Brighton BN11NT
3*
Wifi
Beach access
Restaurant
Pet-friendly
Bar
Air-conditioned

Royal Albion Hotel



Site Analysis

Focus Area
Church Street - Jubilee Street
Map Scale: 1:1000



TRANSECT DRAWING

Observations



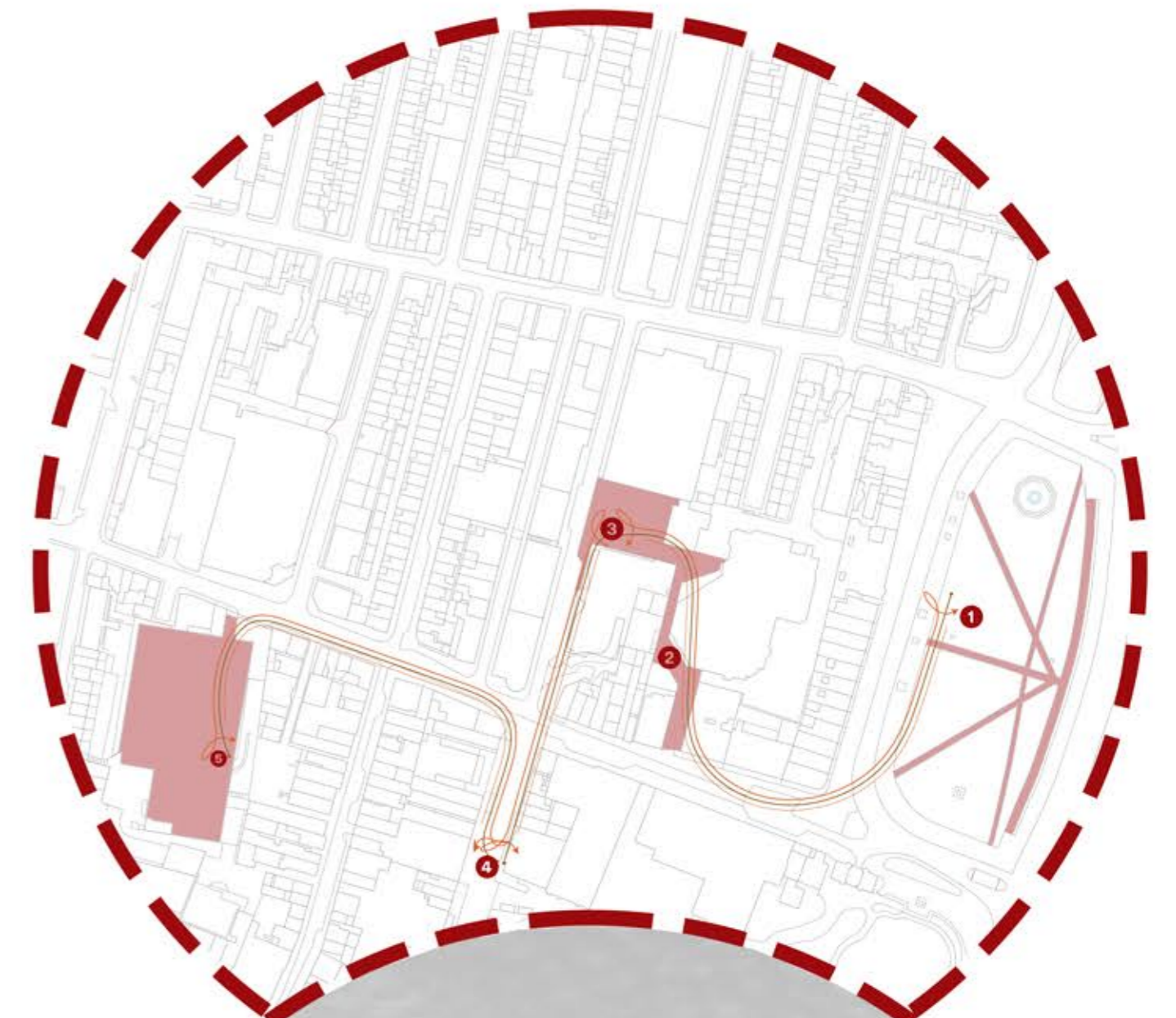
Cycle lane
Provide cycle lanes as well as pedestrian roads to keep everyone safe.
Pedestrian paths can act as shortcuts.



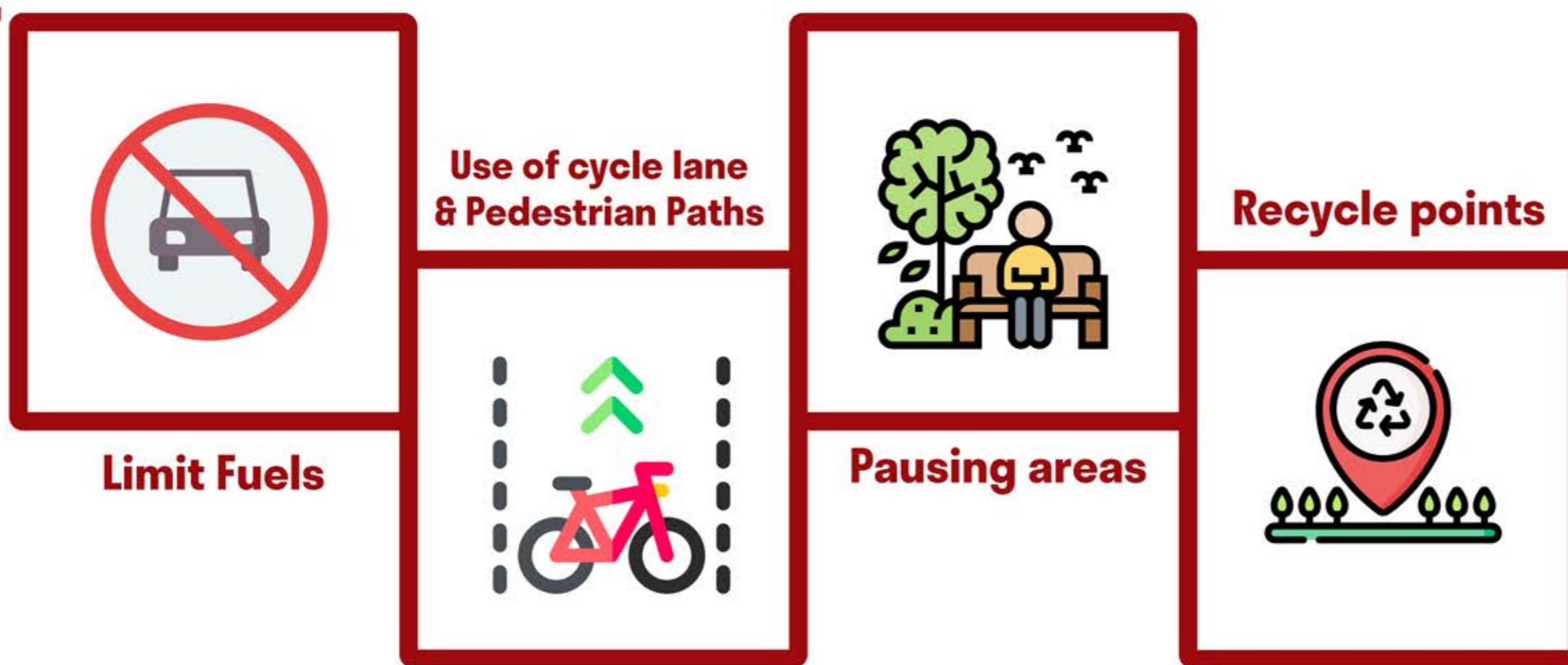
Social Spaces
Provide enough pausing areas within the urban landscape to give the viewer an opportunity to come closer with the environment



Materials:
Observation of different materials
Brick with glass and concrete



Strategy



Site Pictures

Jubilee Library





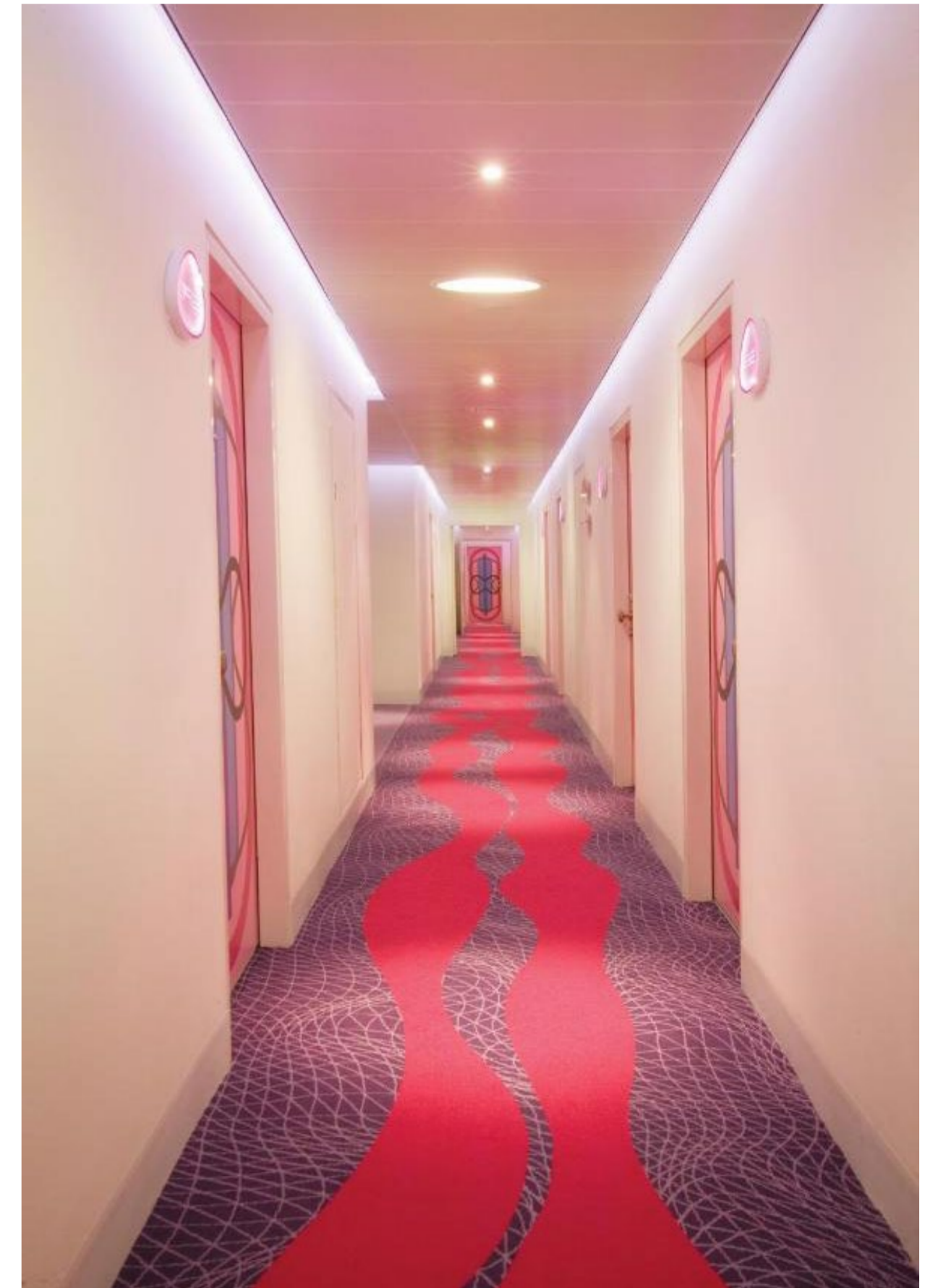
Jubilee Square: Brighton's best event space in the city centre

The perfect spot for your brand activation, community event, farmers' market, festival hub and so much more...



Site Pictures

My Brighton Hotel



Existing Hotel Rooms



Carousel
Penthouse Suite
Up to 2 adults
62sqm



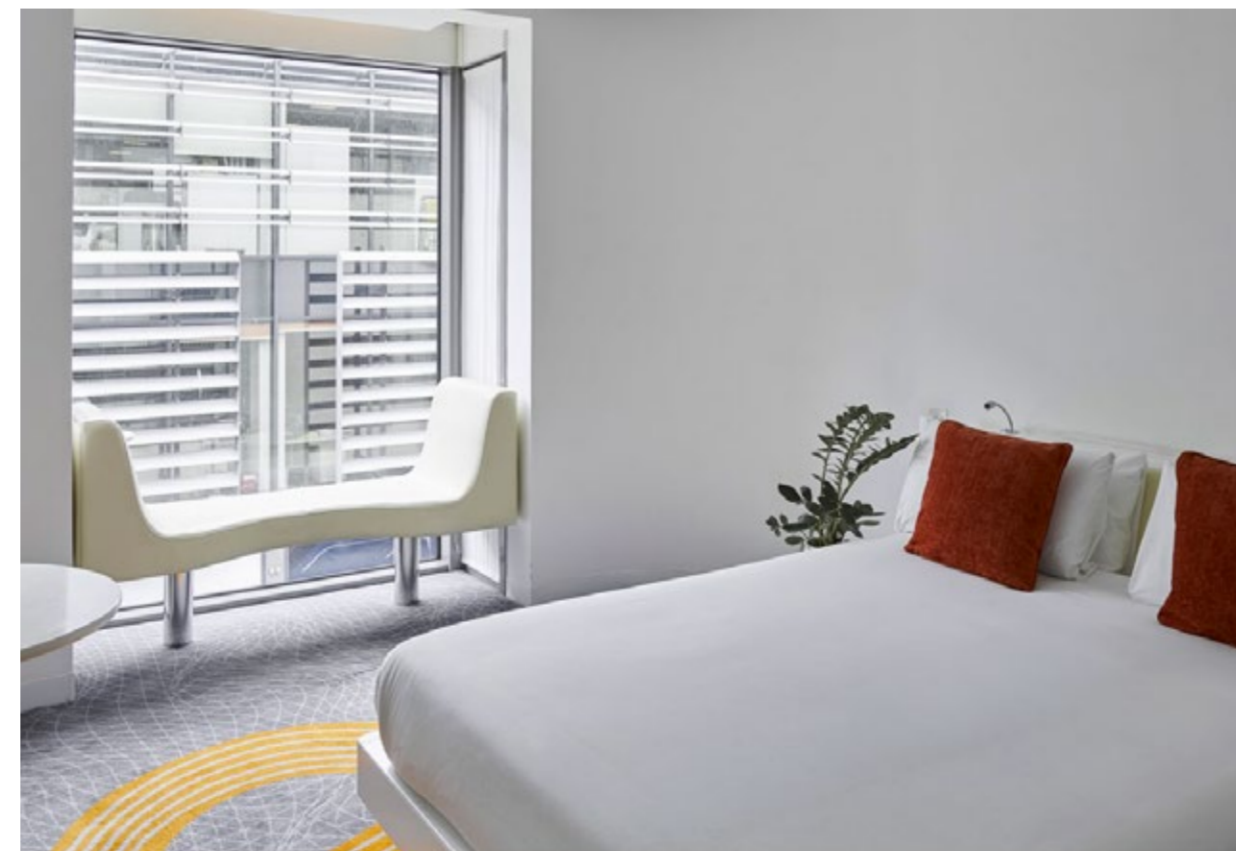
Jade
Circular 8ft King
Up to 2 adults
35sqm



Bamboo
Circular 8ft King
Up to 2 adults
35sqm



Heaven
King bed
Up to 2 adults
20 sqm

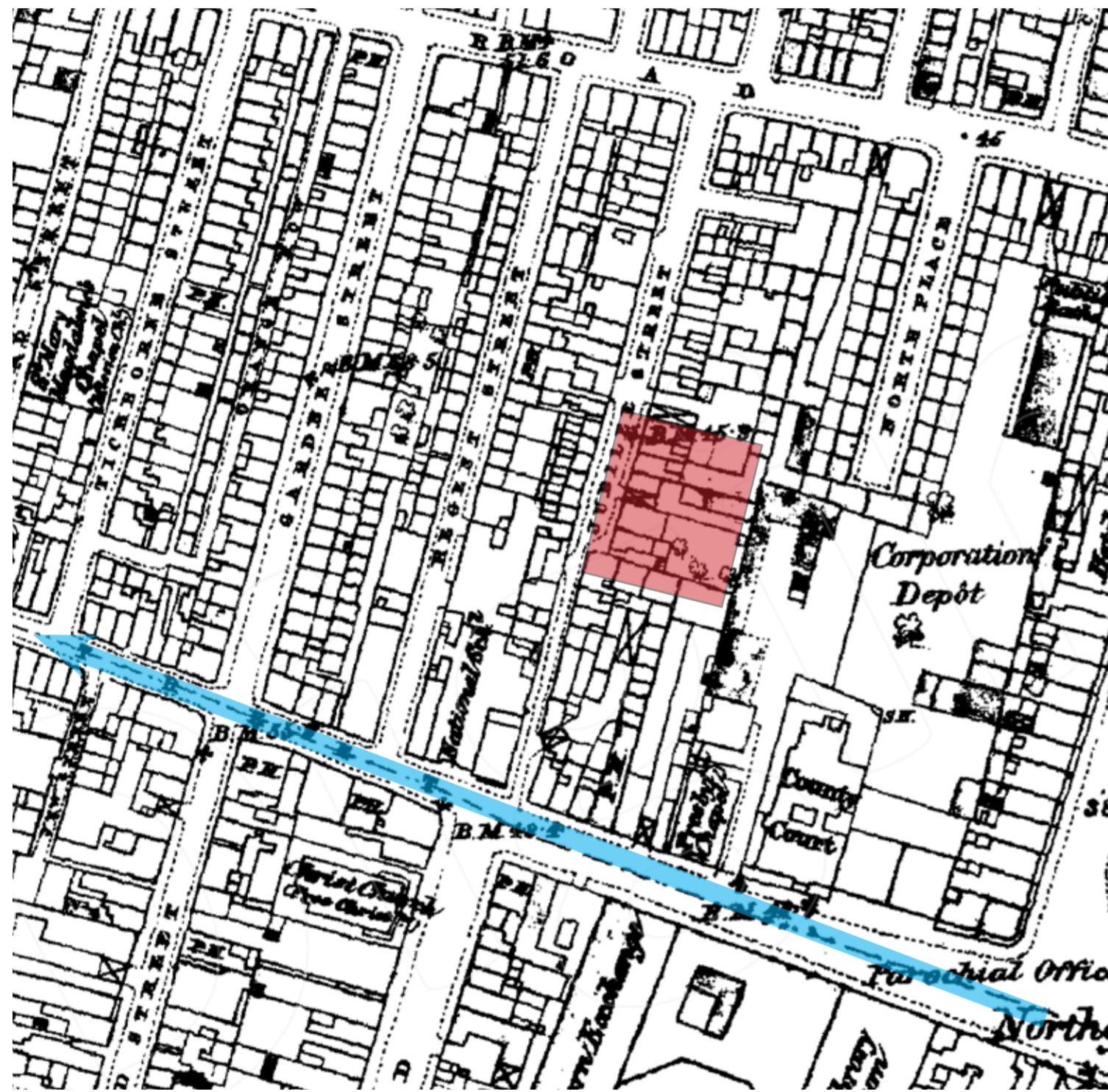


Superior Double Room
King bed, features floor to ceiling window
Up to 2 adults
24sqm

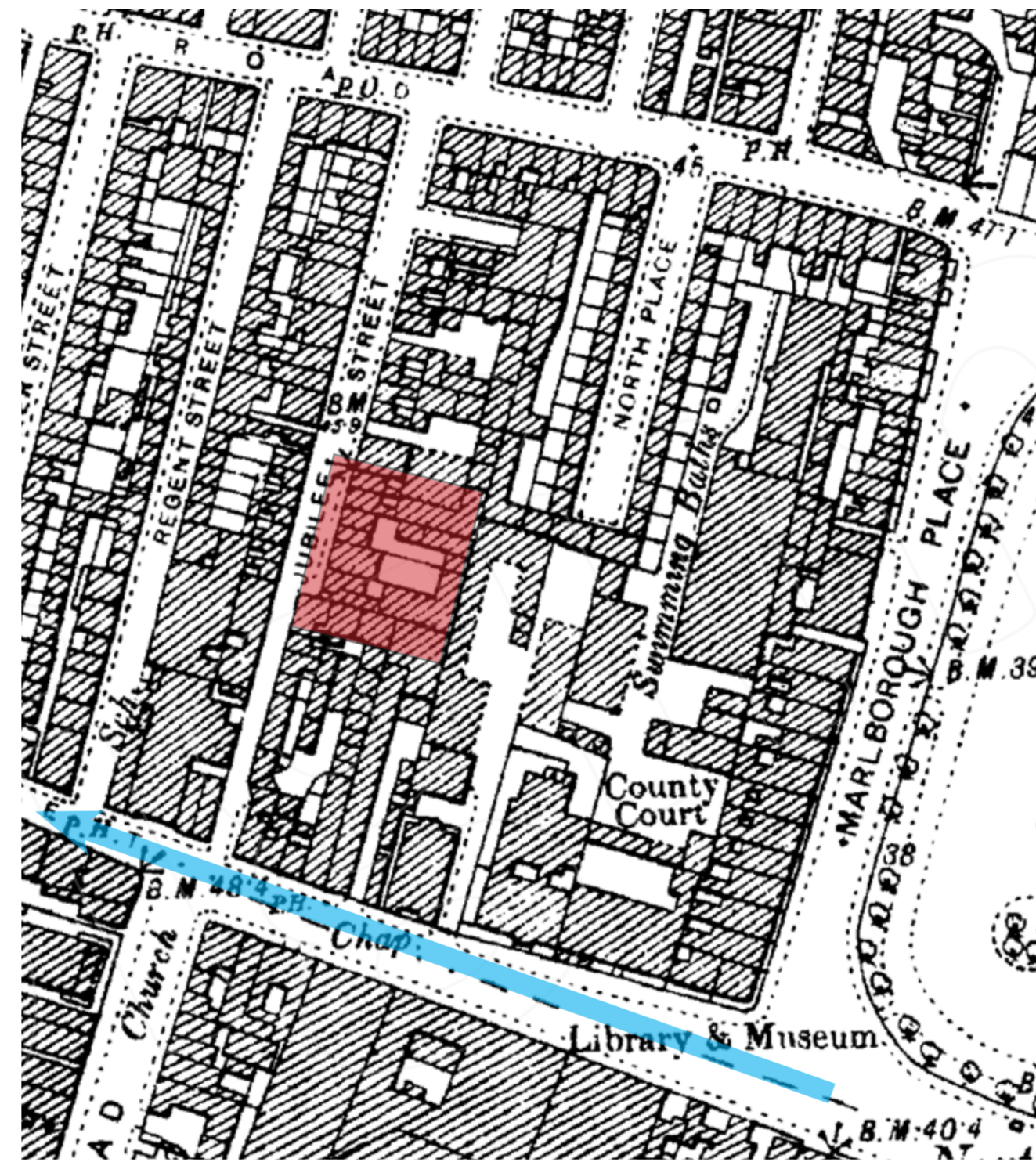


Standard Double Room
Double bed
Up to 2 adults
24sqm

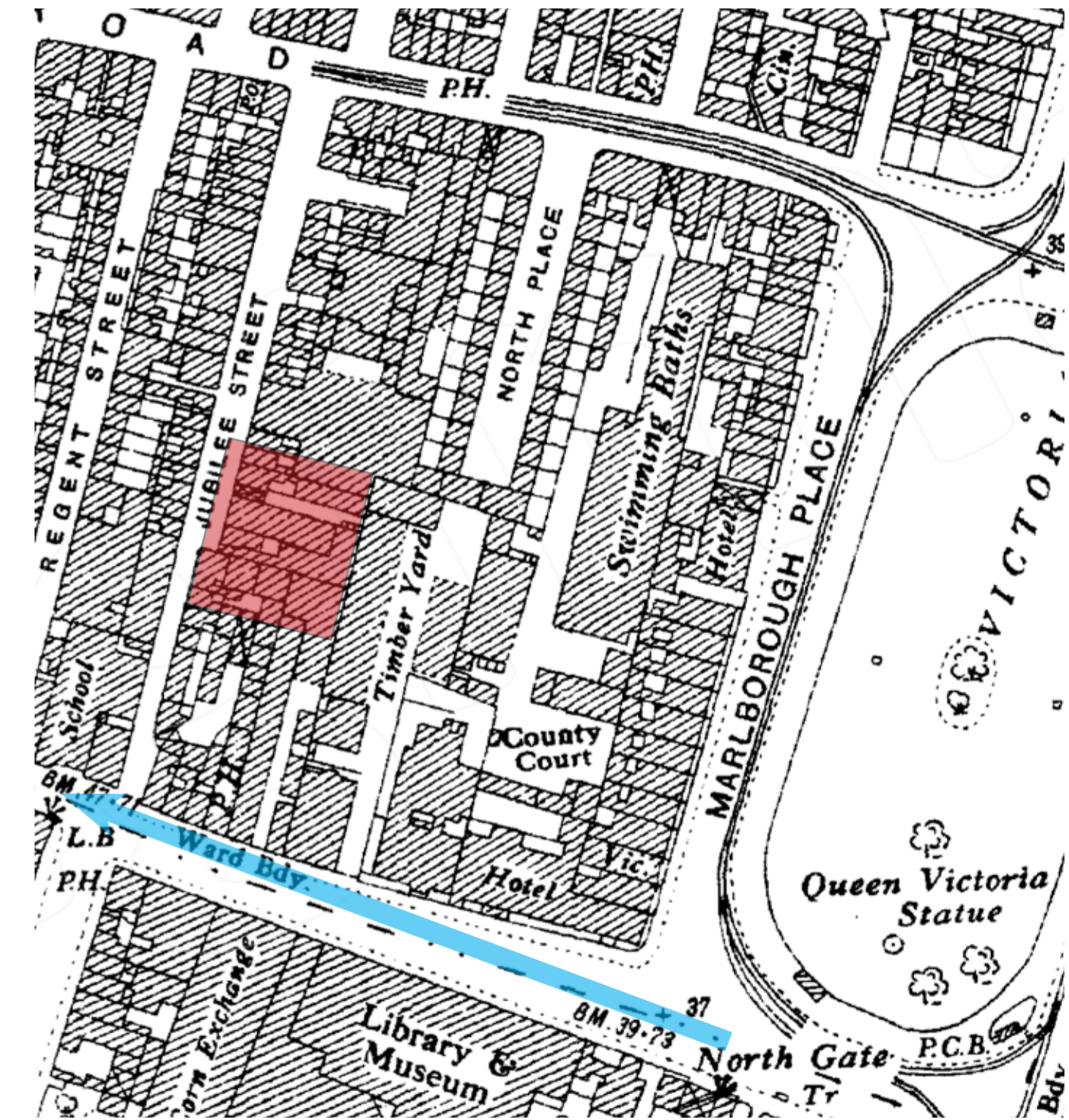
Historical Context



Church street + Jubilee Street in 1870



Church street + Jubilee Street in 1910



Church street + Jubilee Street in 1930

Jubilee Street Through History



1971 - The national Central School and adjoining buildings



1972 - Jubilee street showing demolition

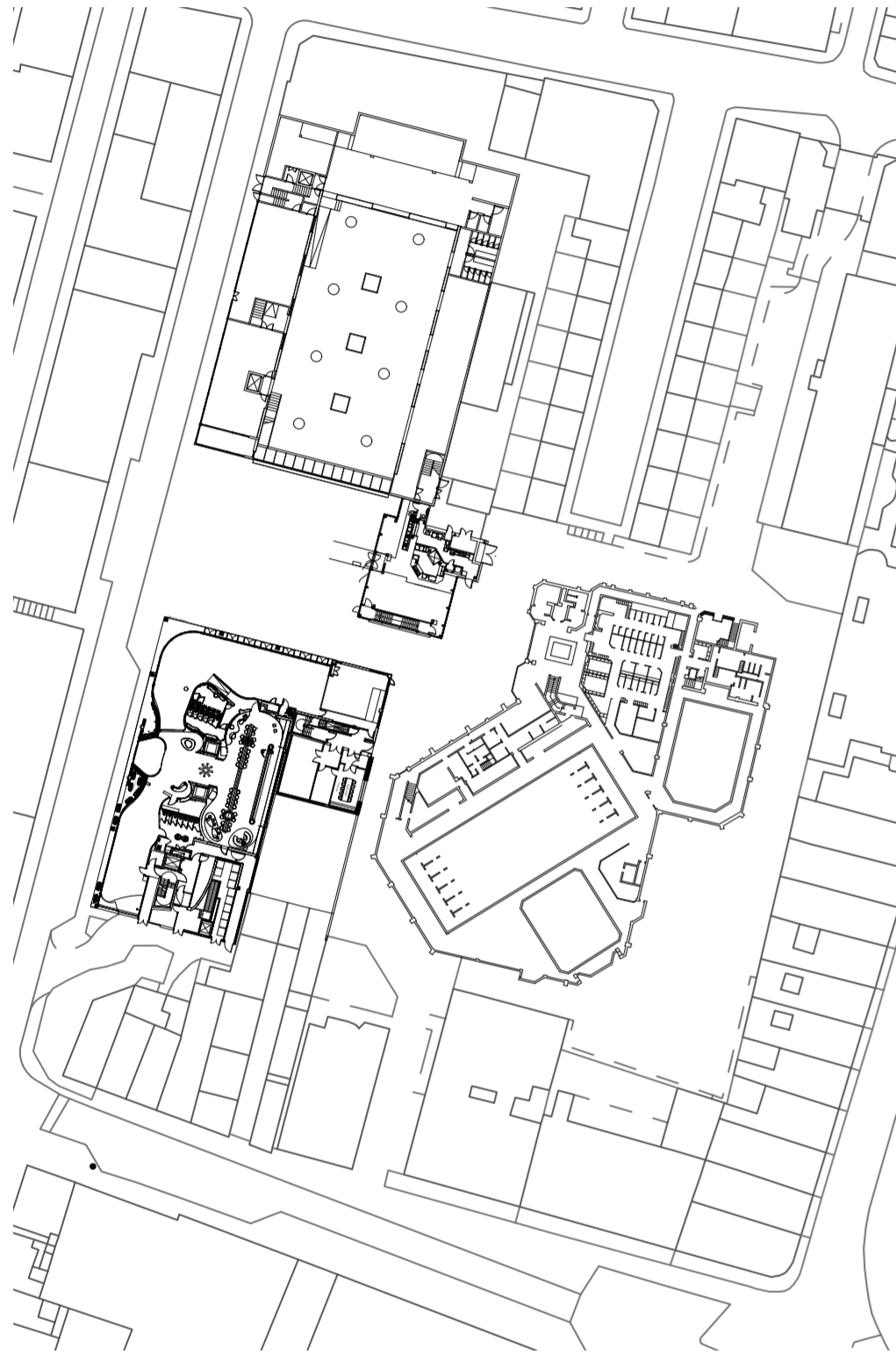


1972 - View from New Road shows the Central National School has been demolished



1973 - Jubilee street became a car park

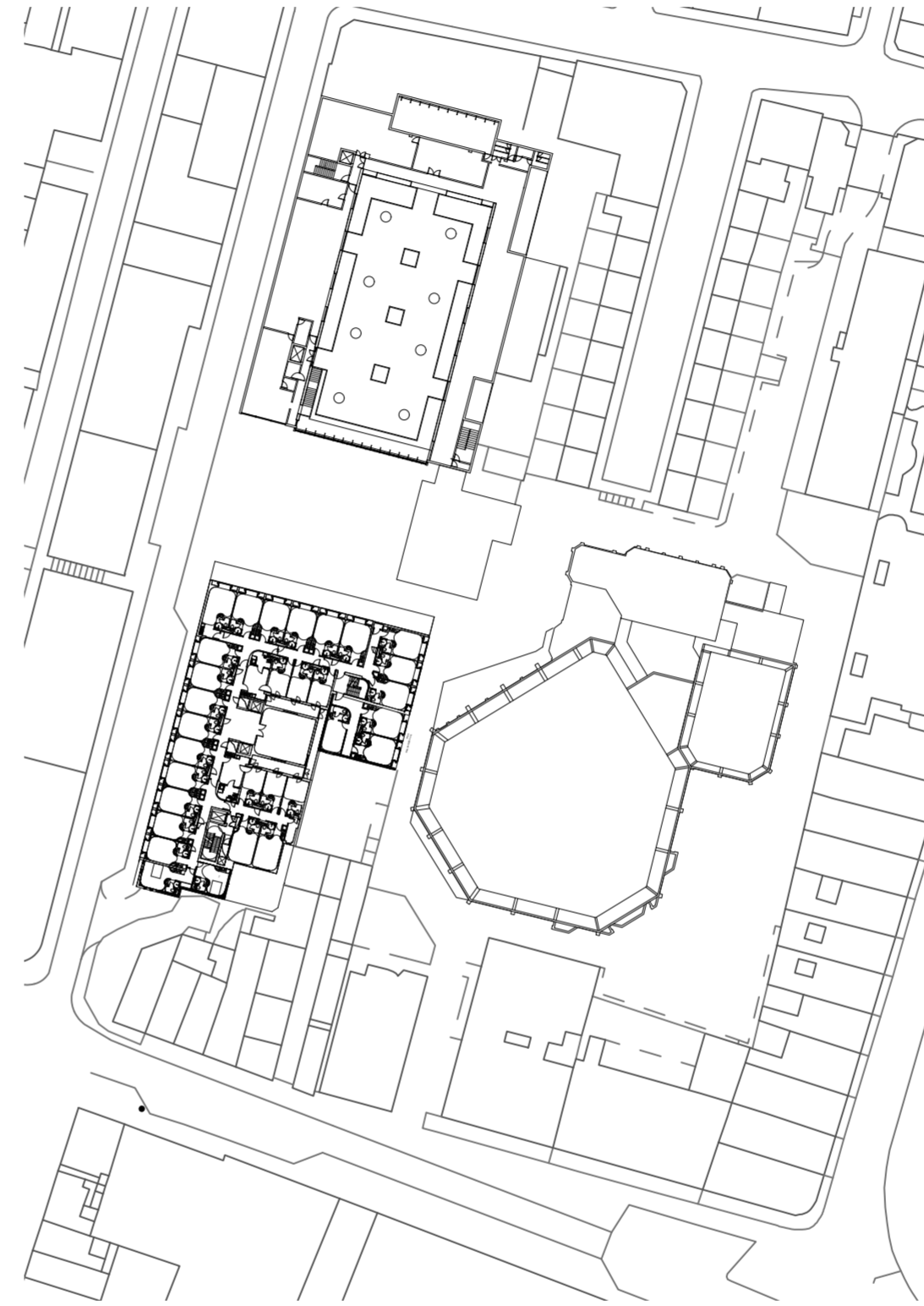
Existing Plans



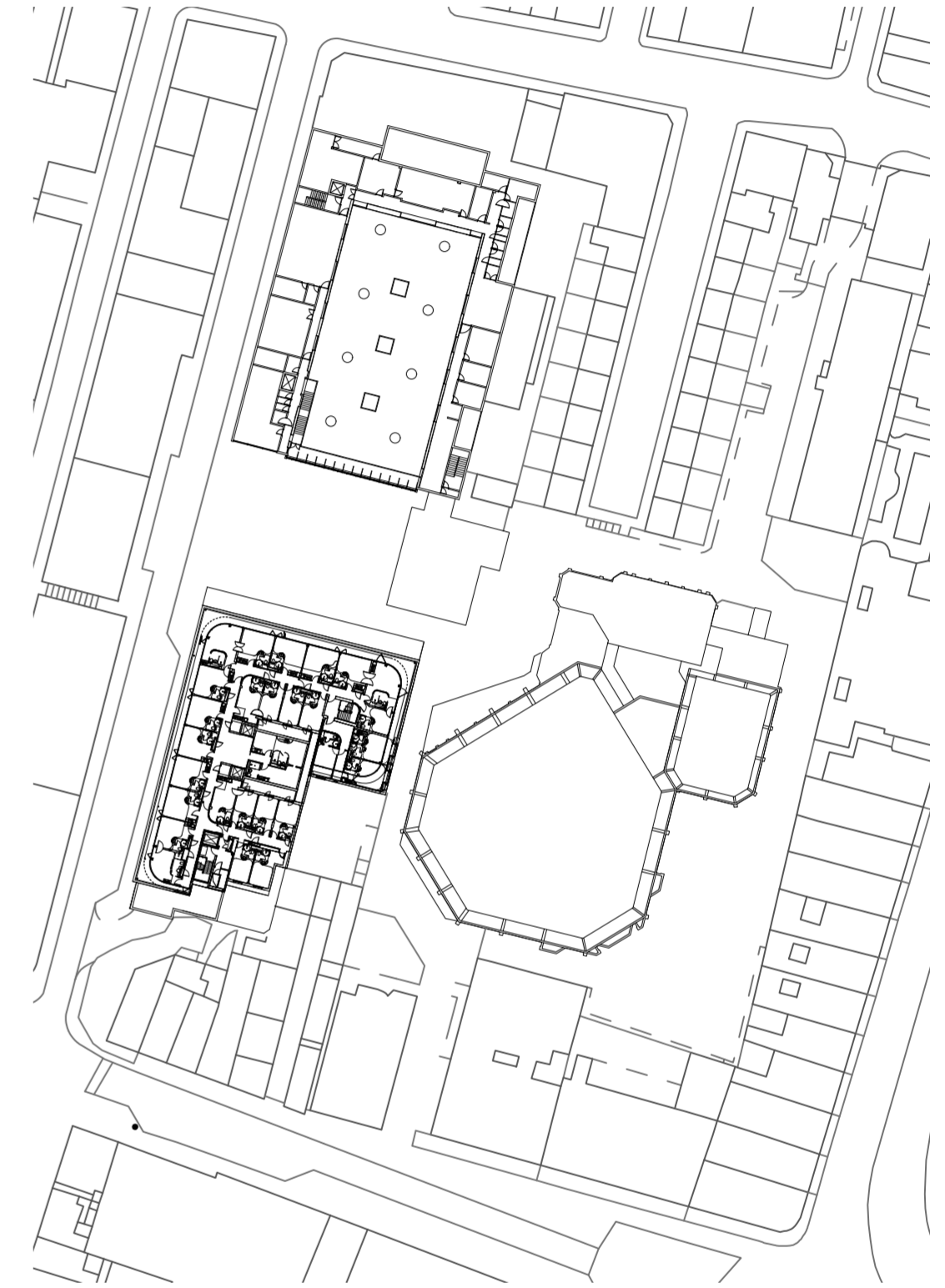
Jubilee Square - Ground floor plan
Scale: 1:1000



Jubilee Square - First floor plan
Scale: 1:1000



Jubilee Square - Second floor plan
Scale: 1:1000



Jubilee Square - Third floor plan
Scale: 1:1000

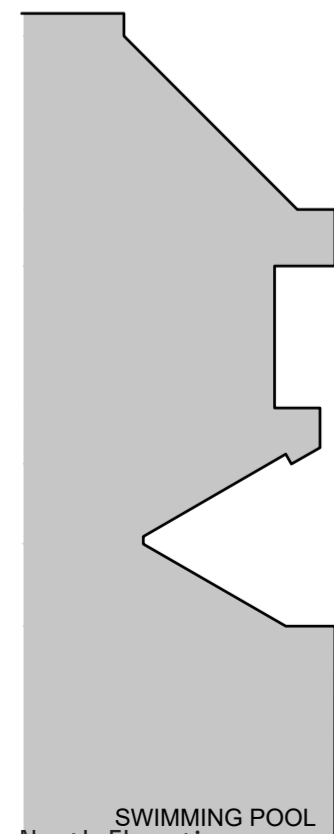
Existing Elevations

My Brighton Hotel

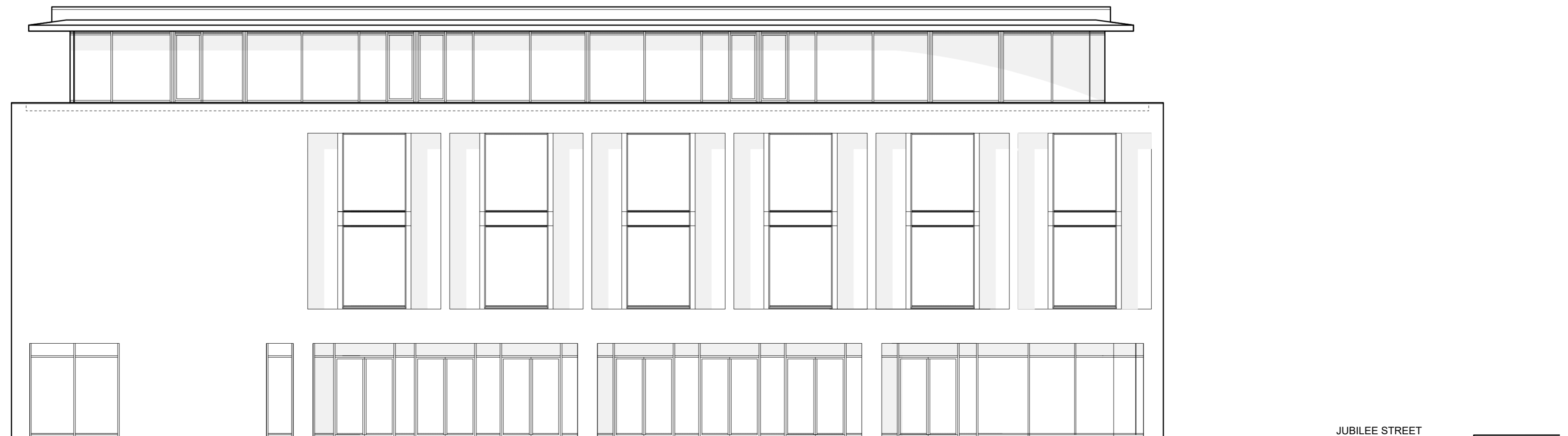
APET



West Elevation
Scale: 1:100



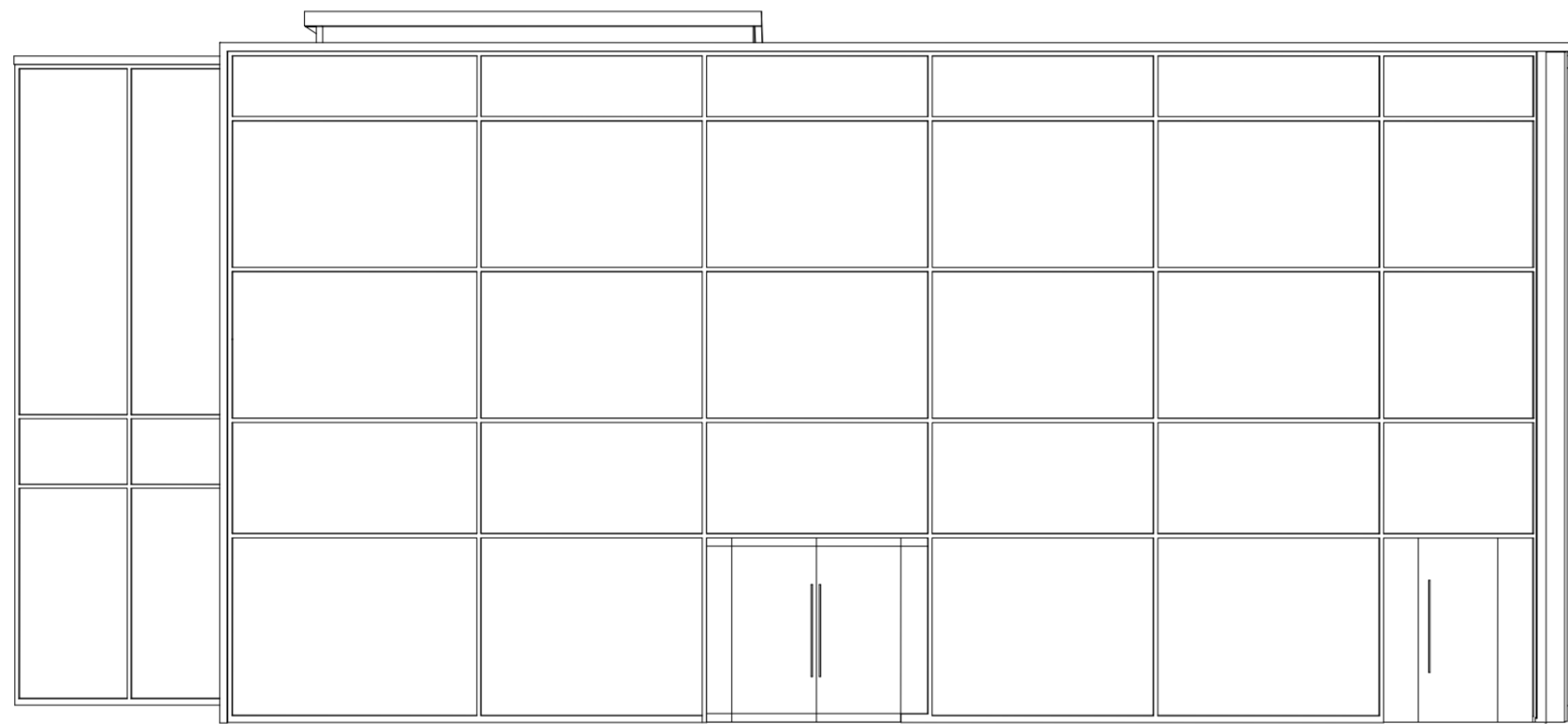
SWIMMING POOL
North Elevation
Scale: 1:100



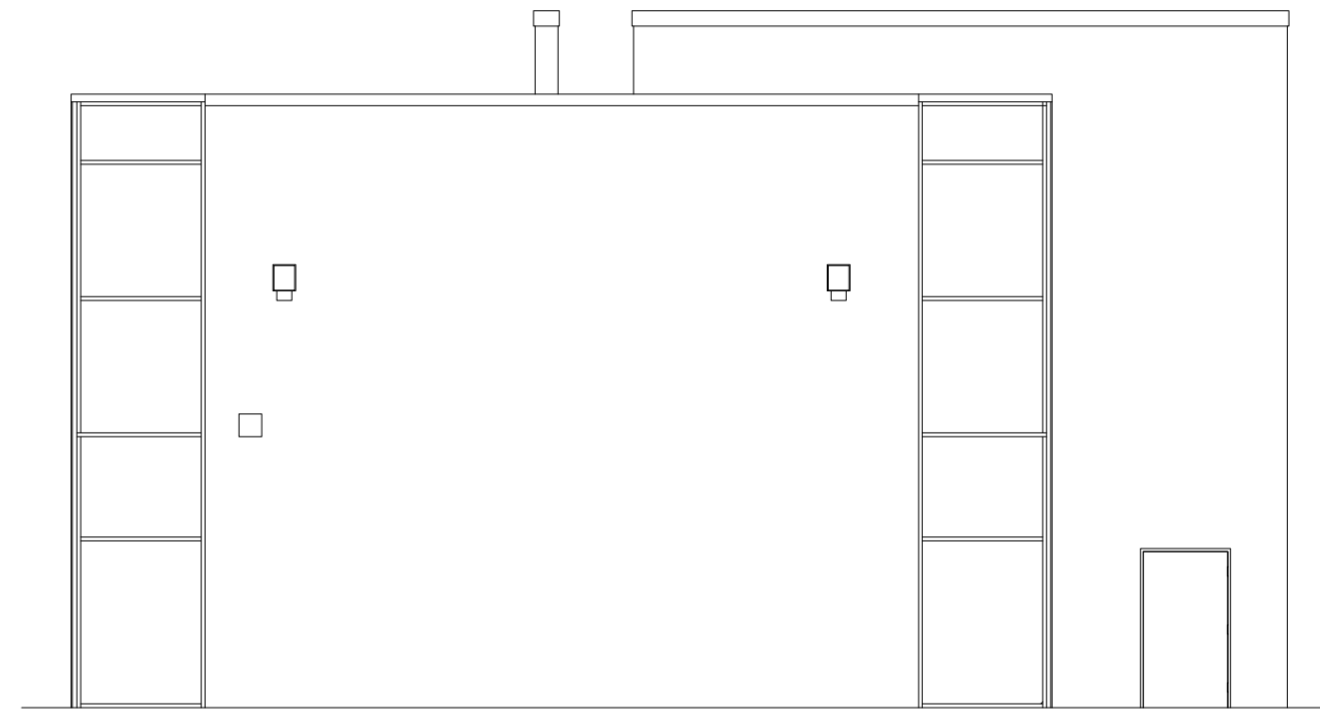
JUBILEE STREET

Existing Elevations

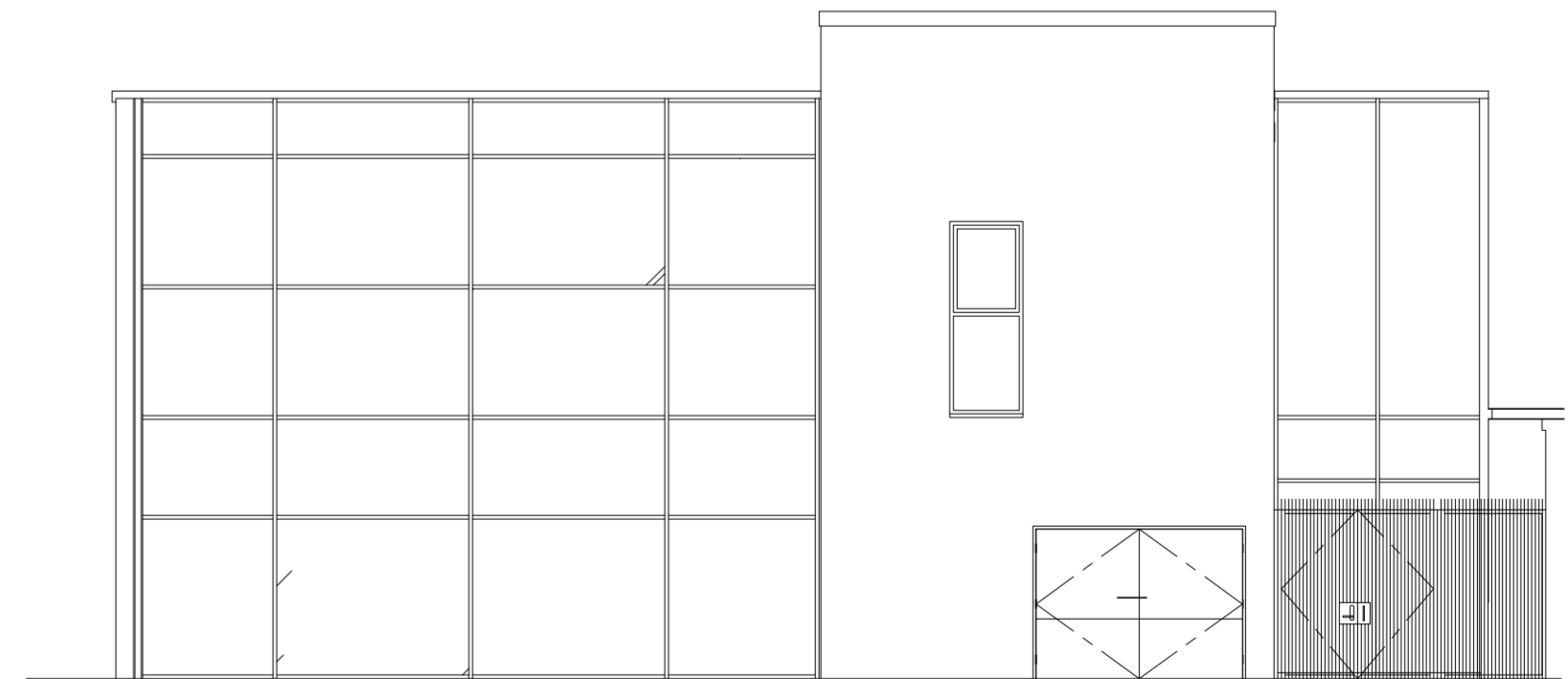
My Brighton Hotel



West Elevation
Scale: 1:100



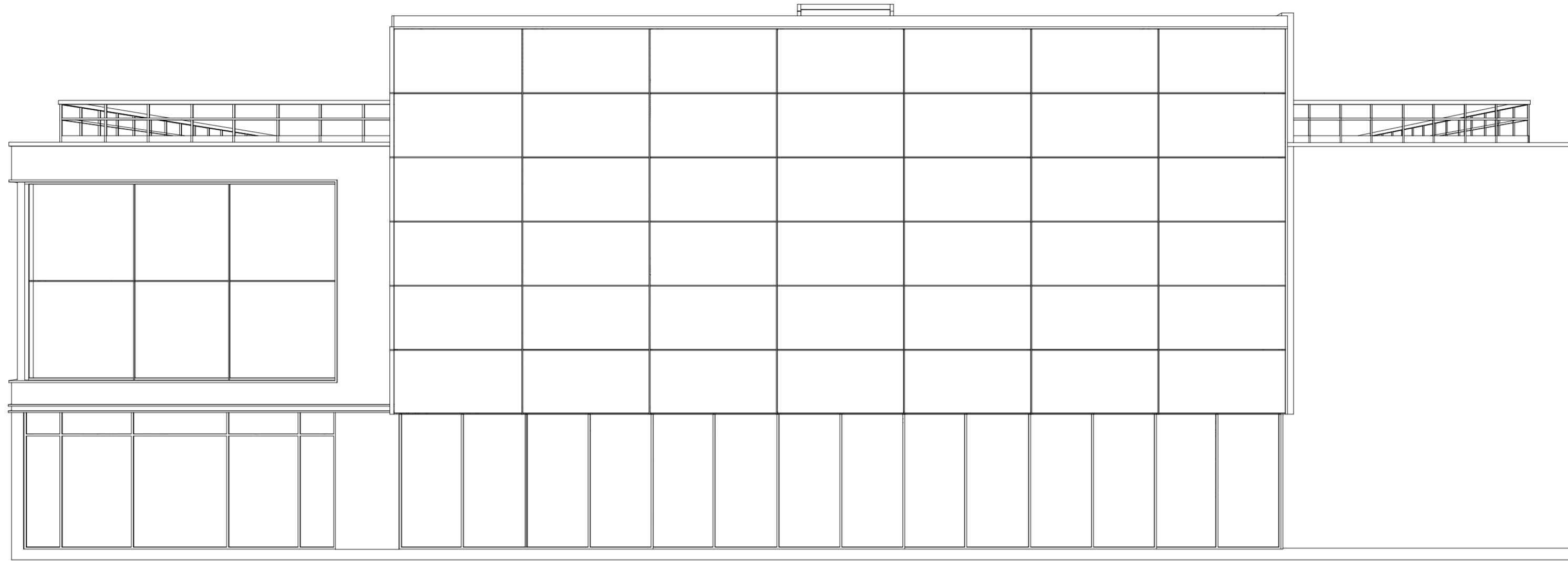
South Elevation
Scale: 1:100



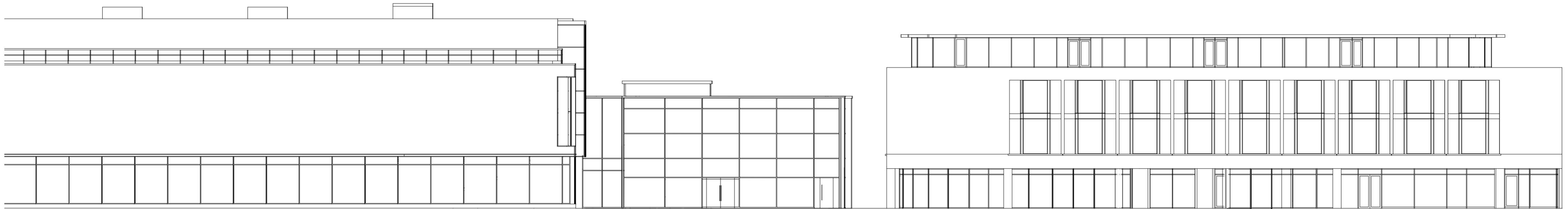
East Elevation
Scale: 1:100

Existing Elevations

My Brighton Hotel

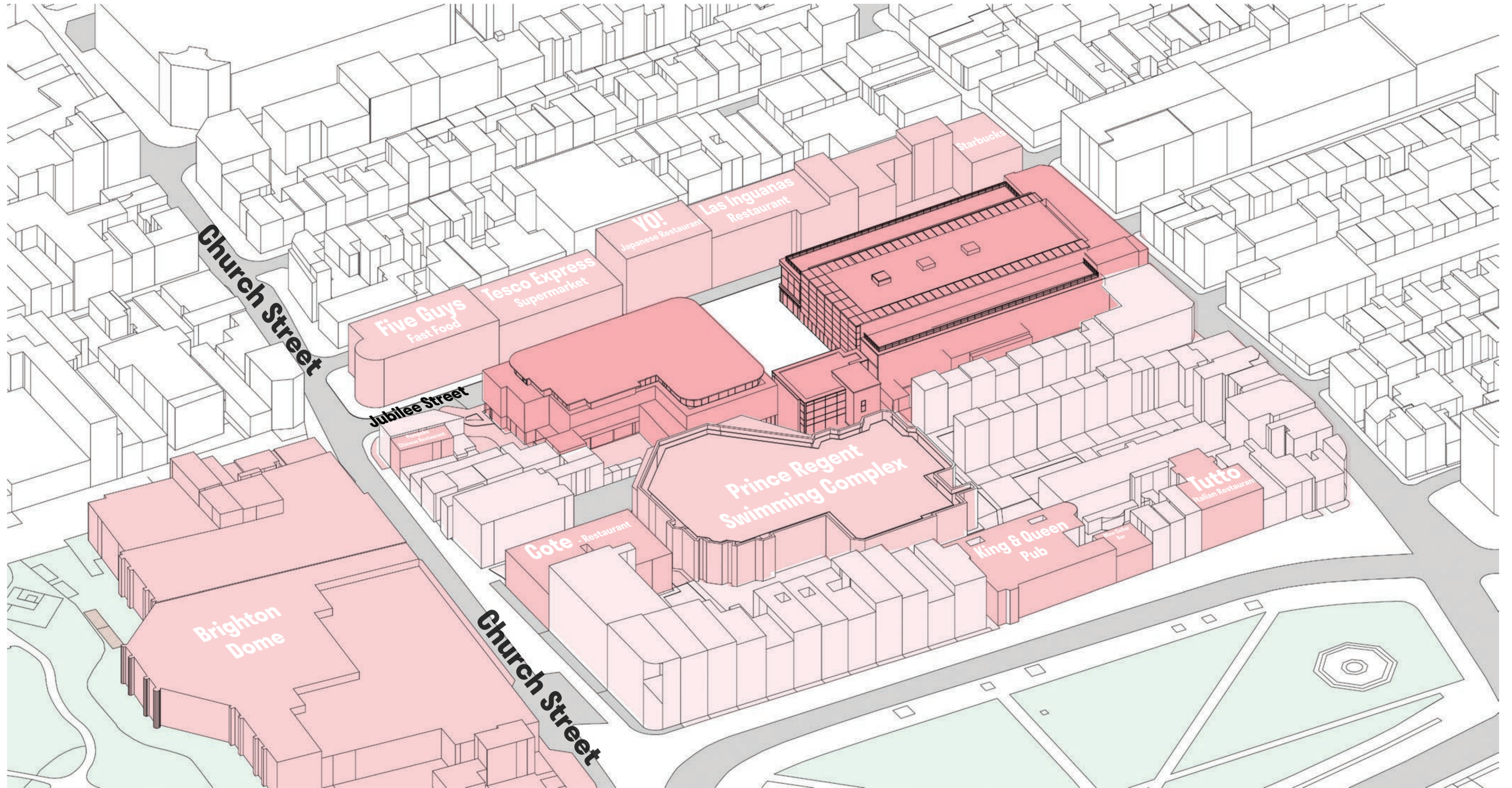


South Elevation
Scale: 1:100

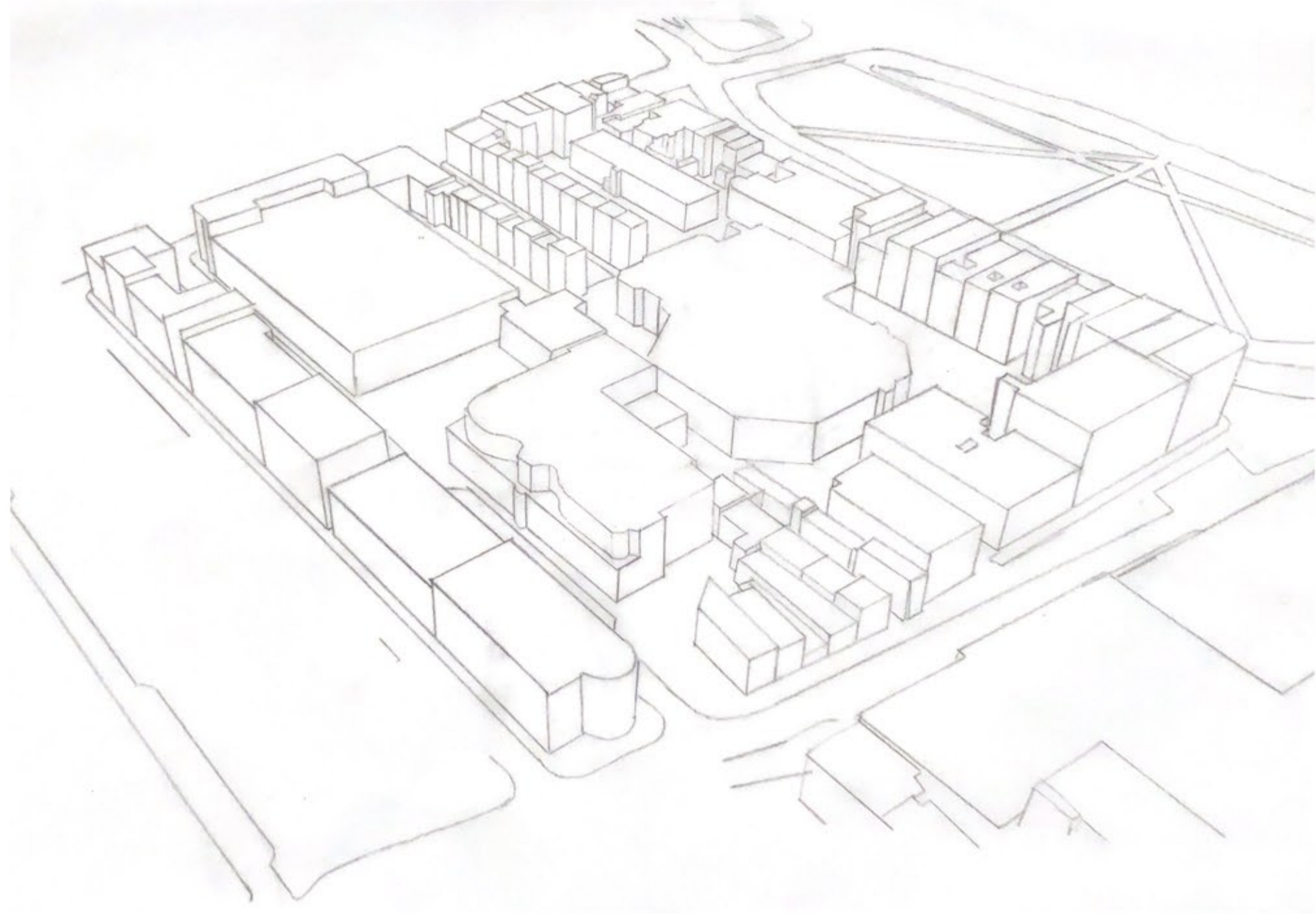


West Site Elevation
Scale: 1:100

Context Study

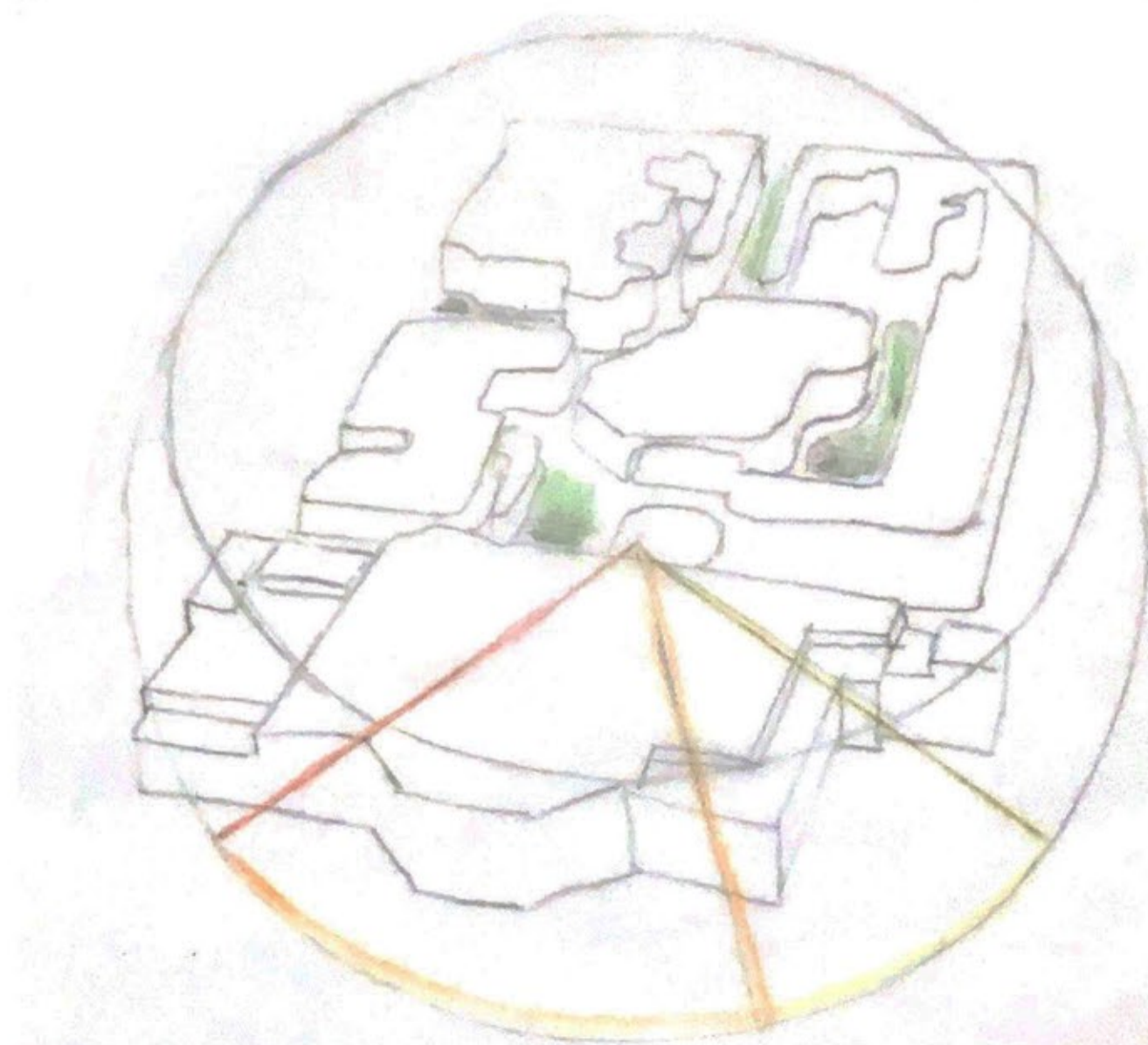
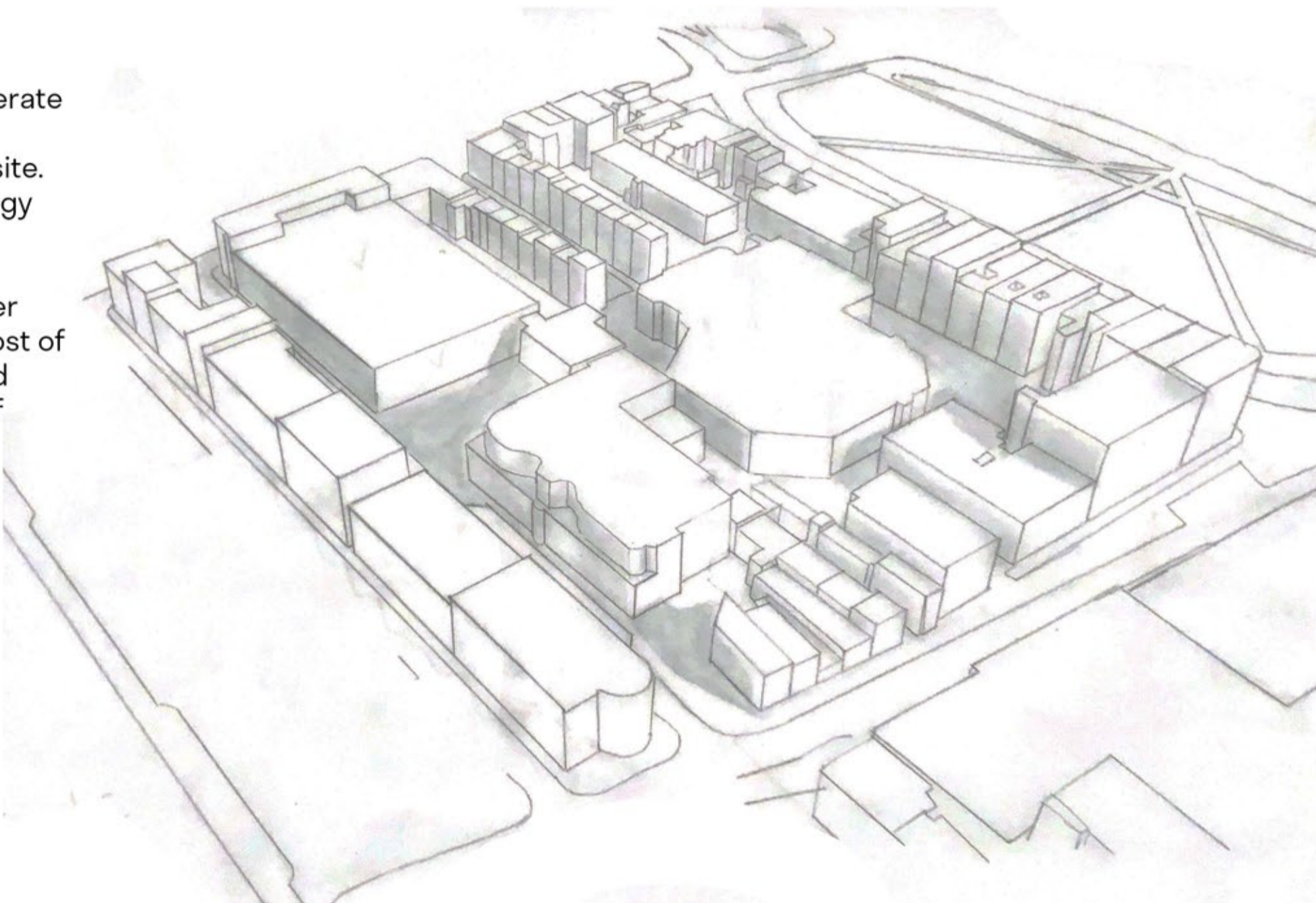


Church street as well as jubilee street provide rich urban context around the focus area. Through this exploration i have discovered the existing programs including restaurants, cafes, bars, pubs and supermarket. Therefore, the proposed urban farm will incorporate and enhance the existing market by growing herbs and spices.



Shadow Study:

Through the digital 3D model I was able to generate shadow information regarding the existing site. It is an important strategy for the current thesis project as some of the crops require the proper sunlight. In this case most of the sunlight is attracted through the rooftops of each building.



Sunlight Study:

Through the digital 3D model I was able to generate sunlight information. It is an important element for the current thesis project as some of the crops require the proper sunlight.

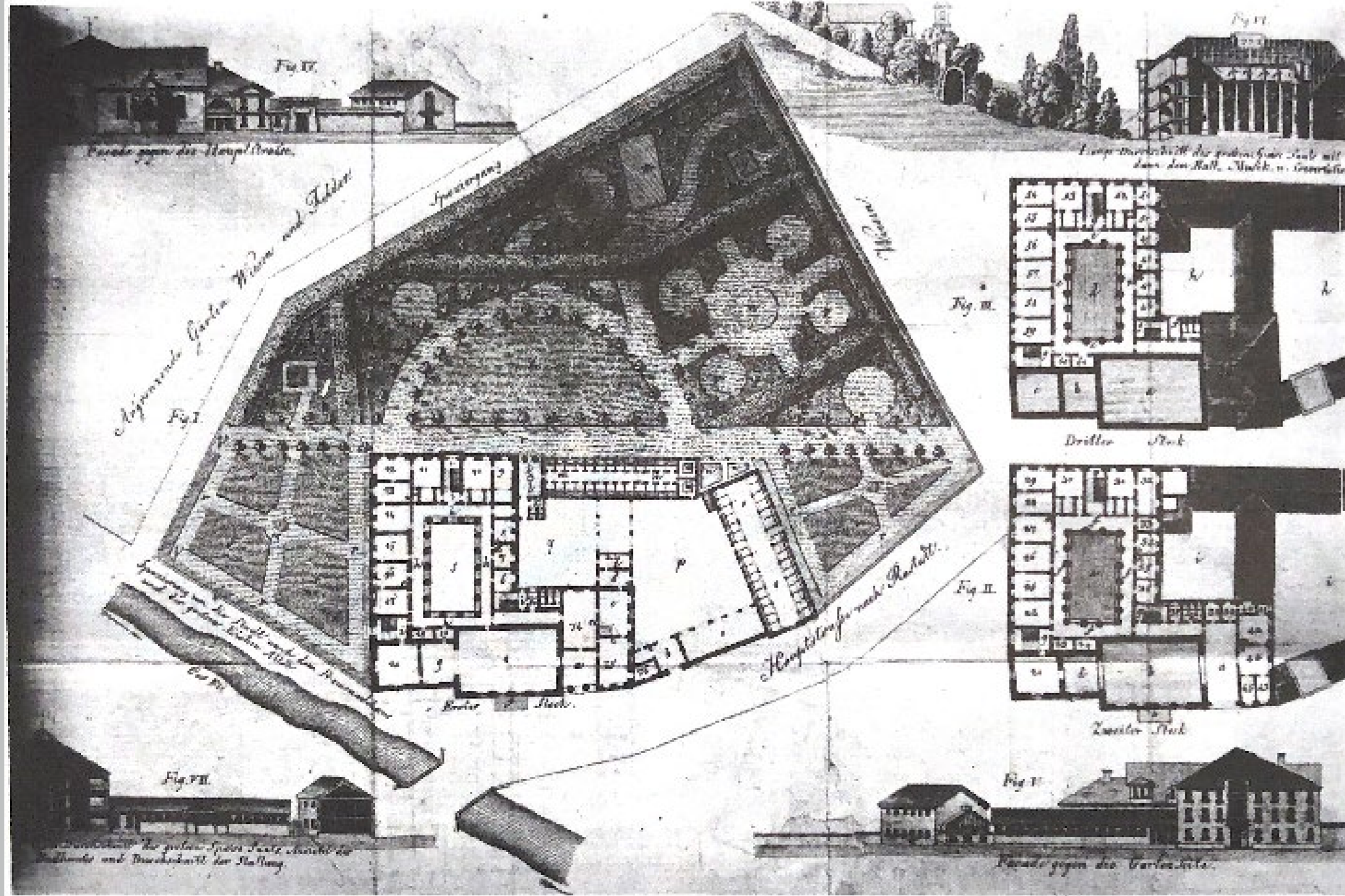
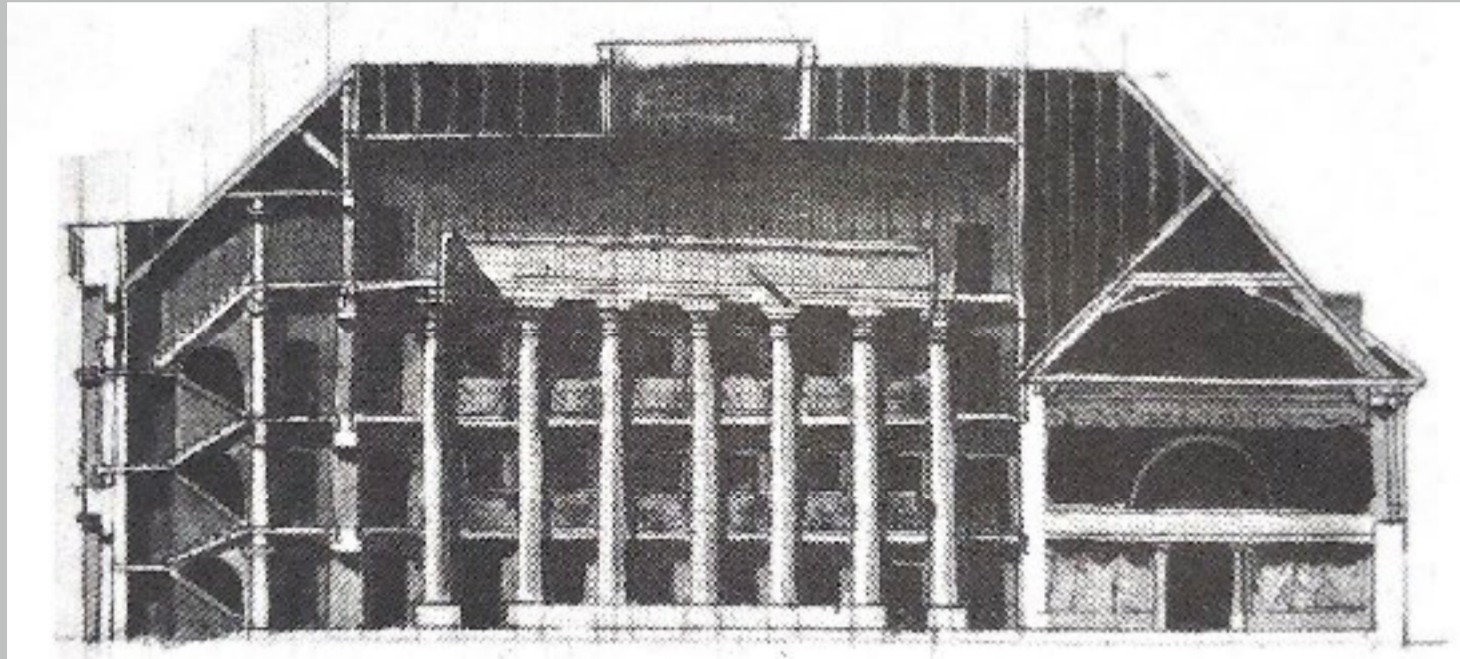
Design Development

19th Century

Badischer Hof

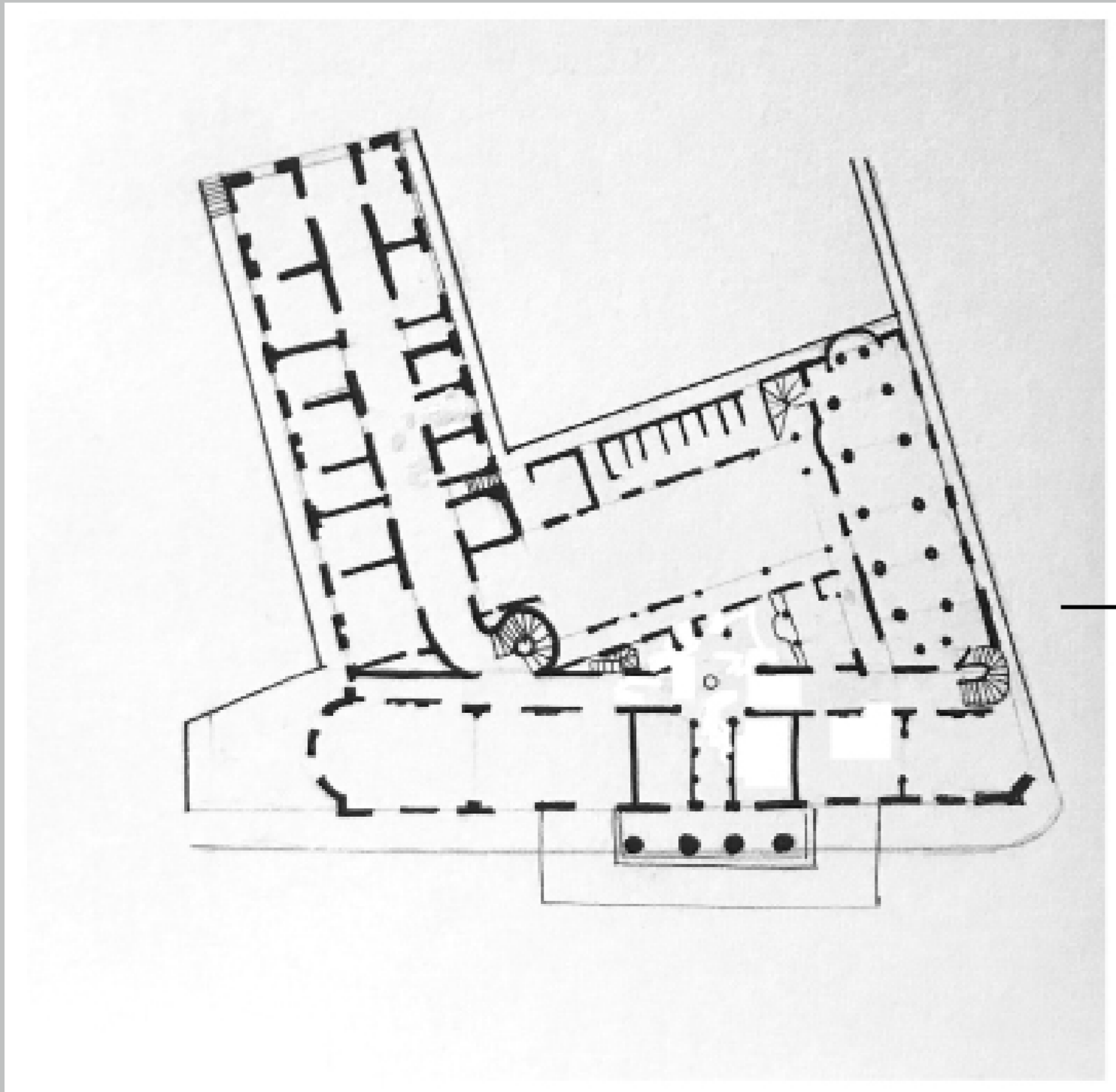
Baden-Baden

Covent converted to a hotel 1807-09



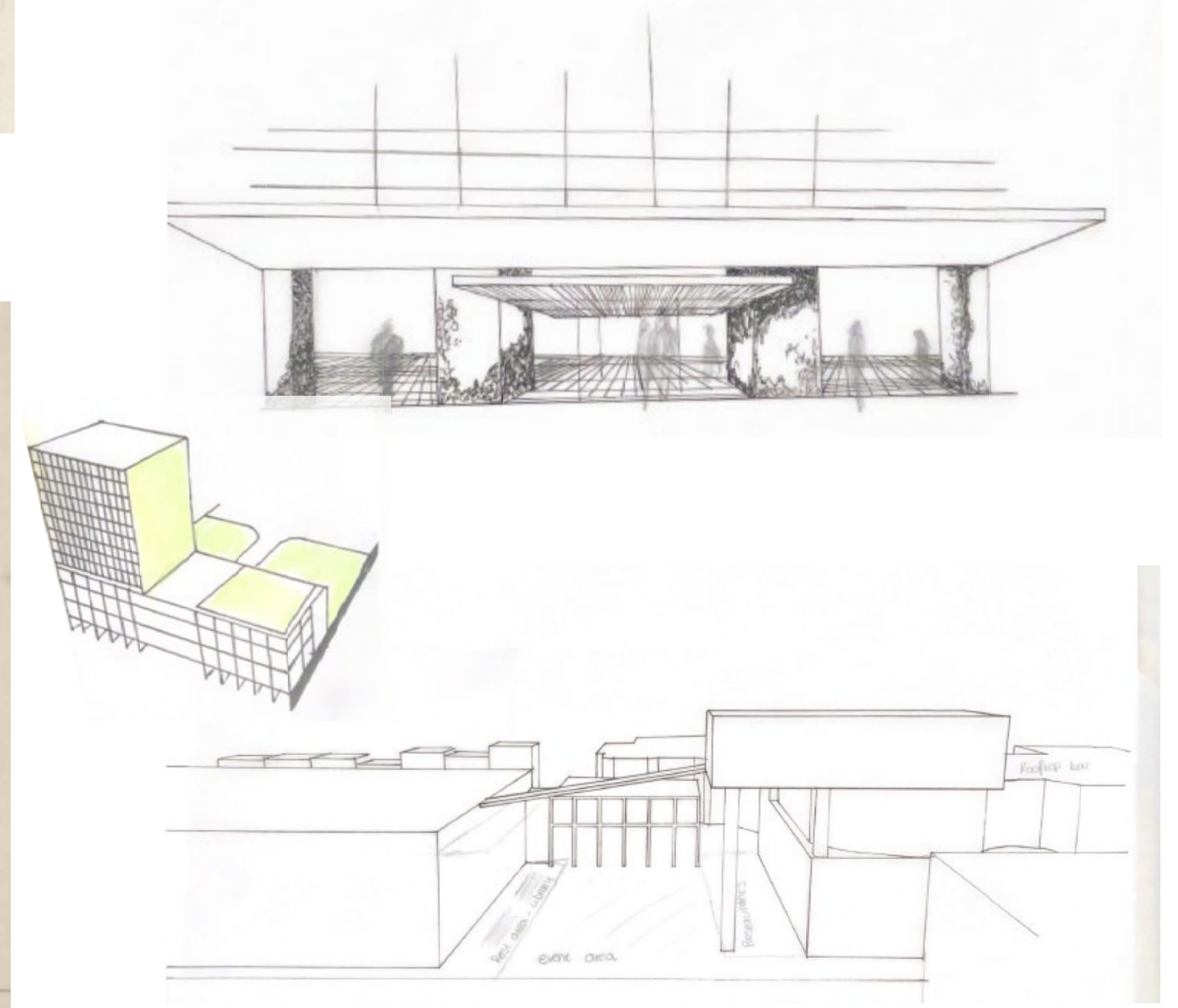
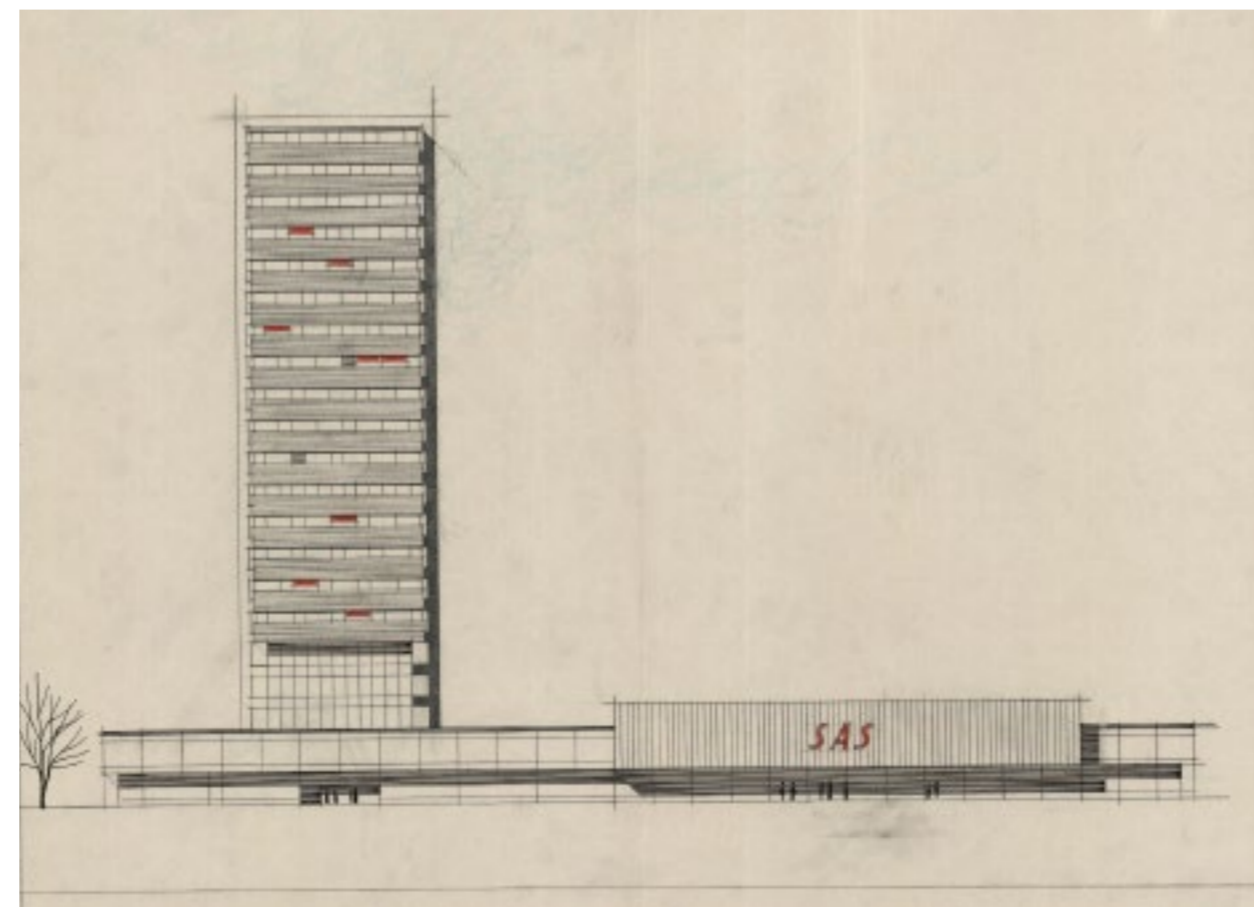
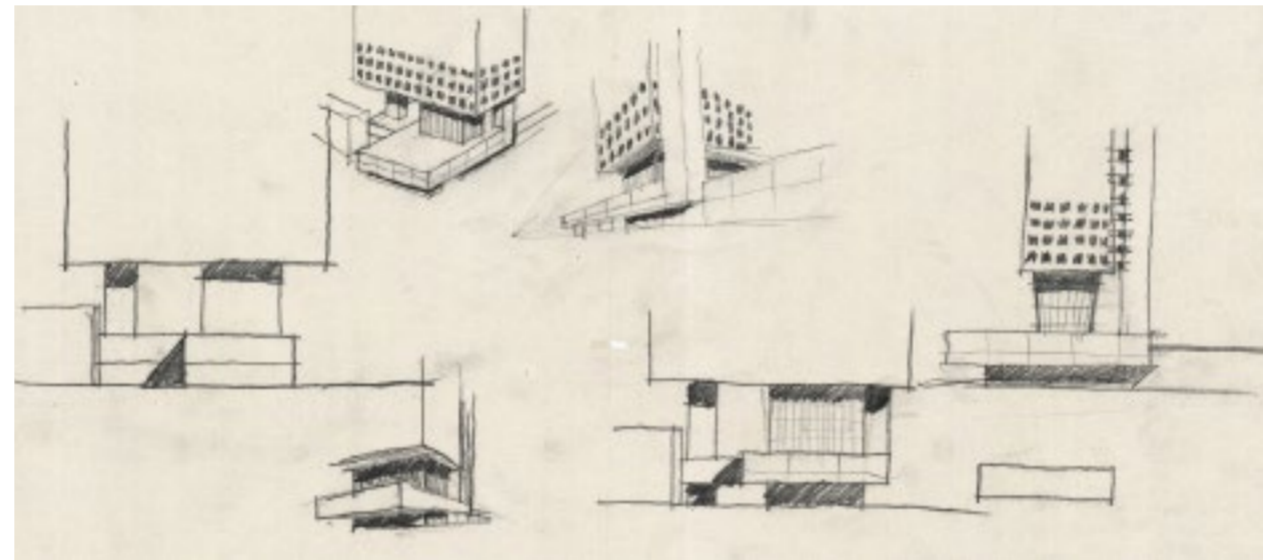
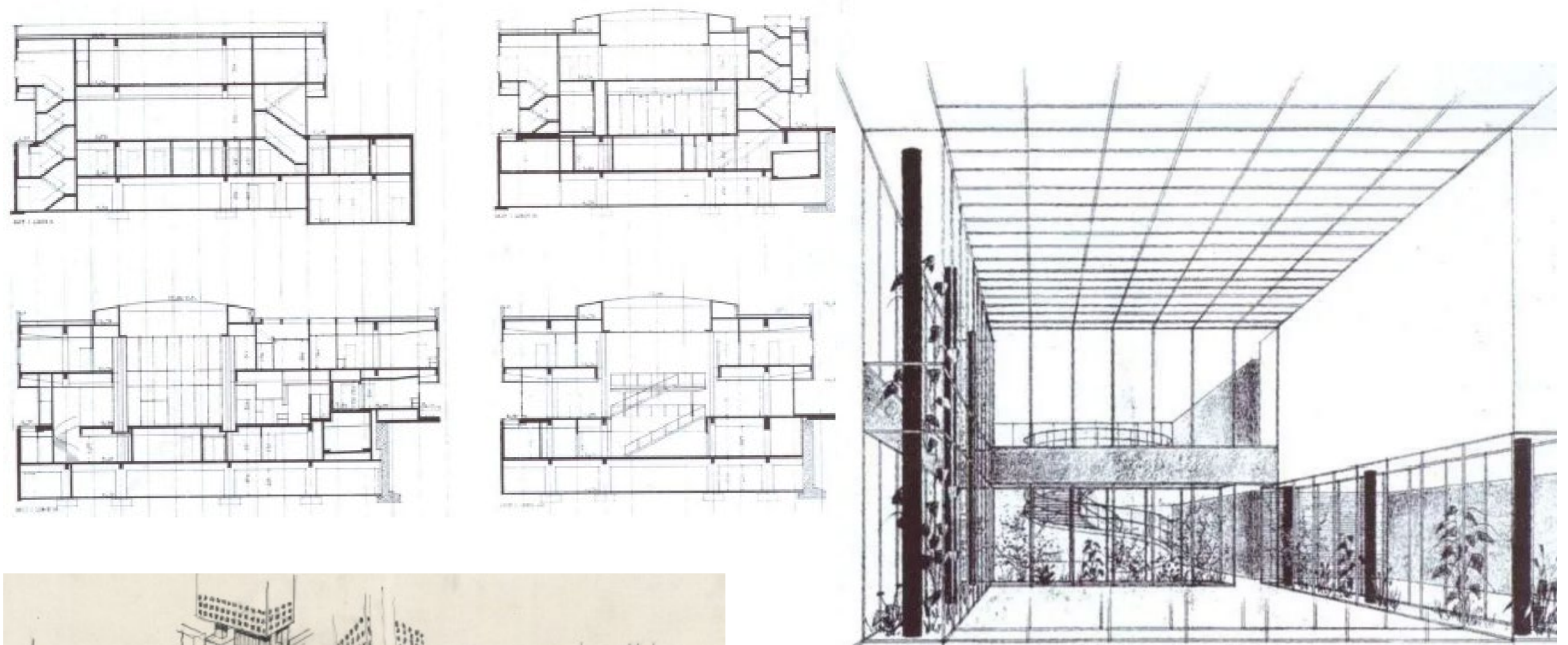
Badischer Hof building in Jubilee Street

Tremont House
by Isaiah Rogers
Boston
1827-30

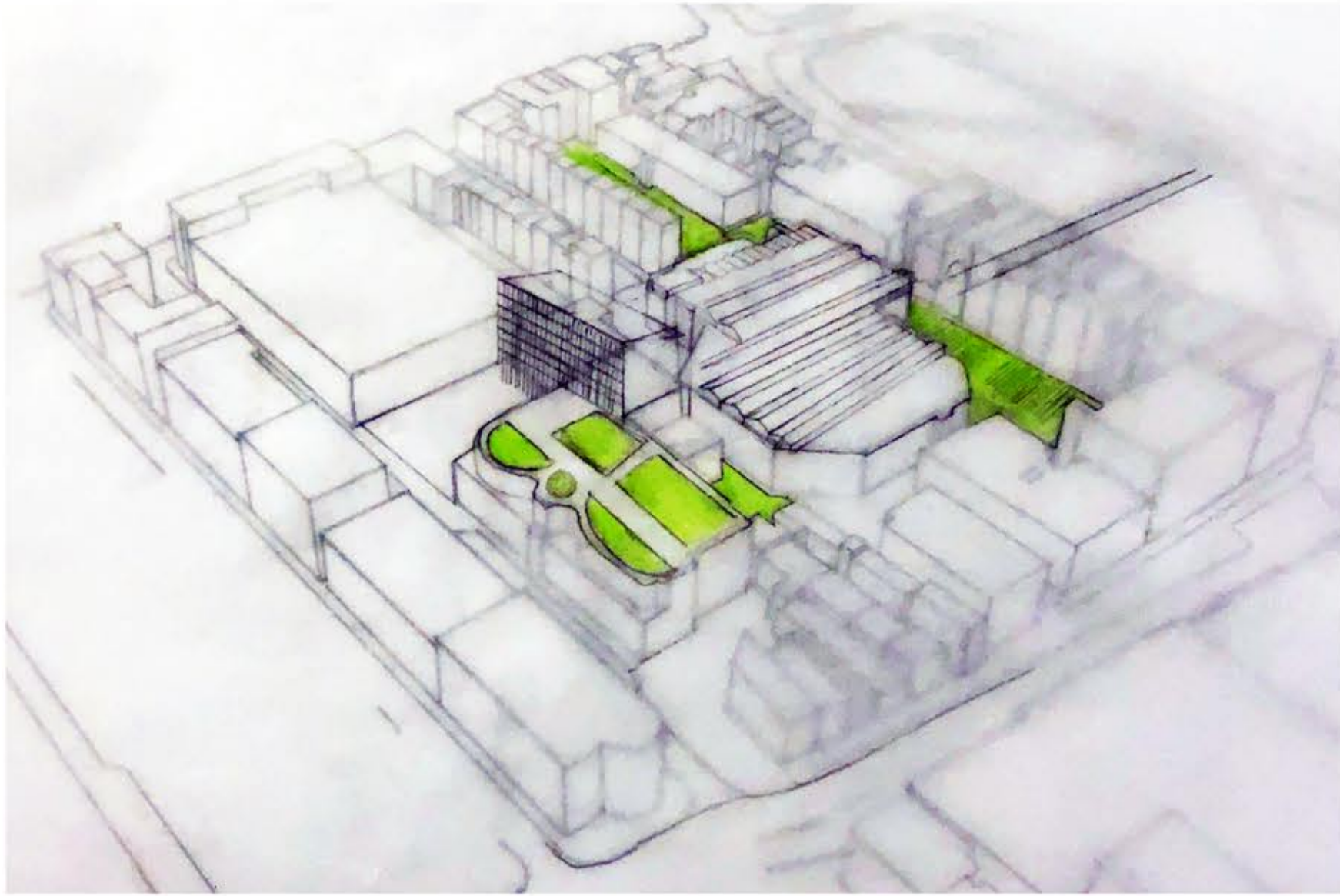


20th Century

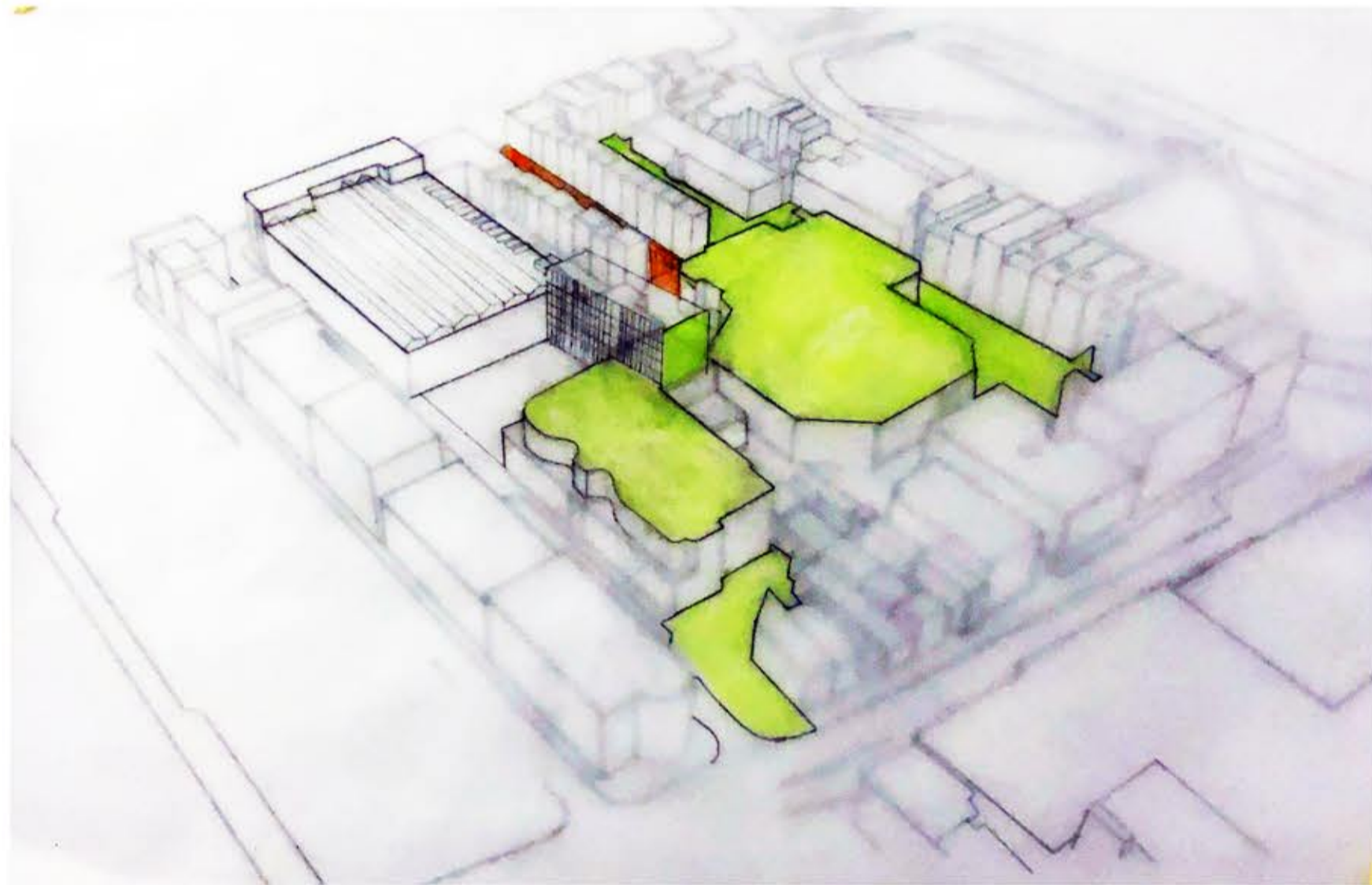
SAS Royal Hotel
by Arne Jacobsen
Copenhagen
1960



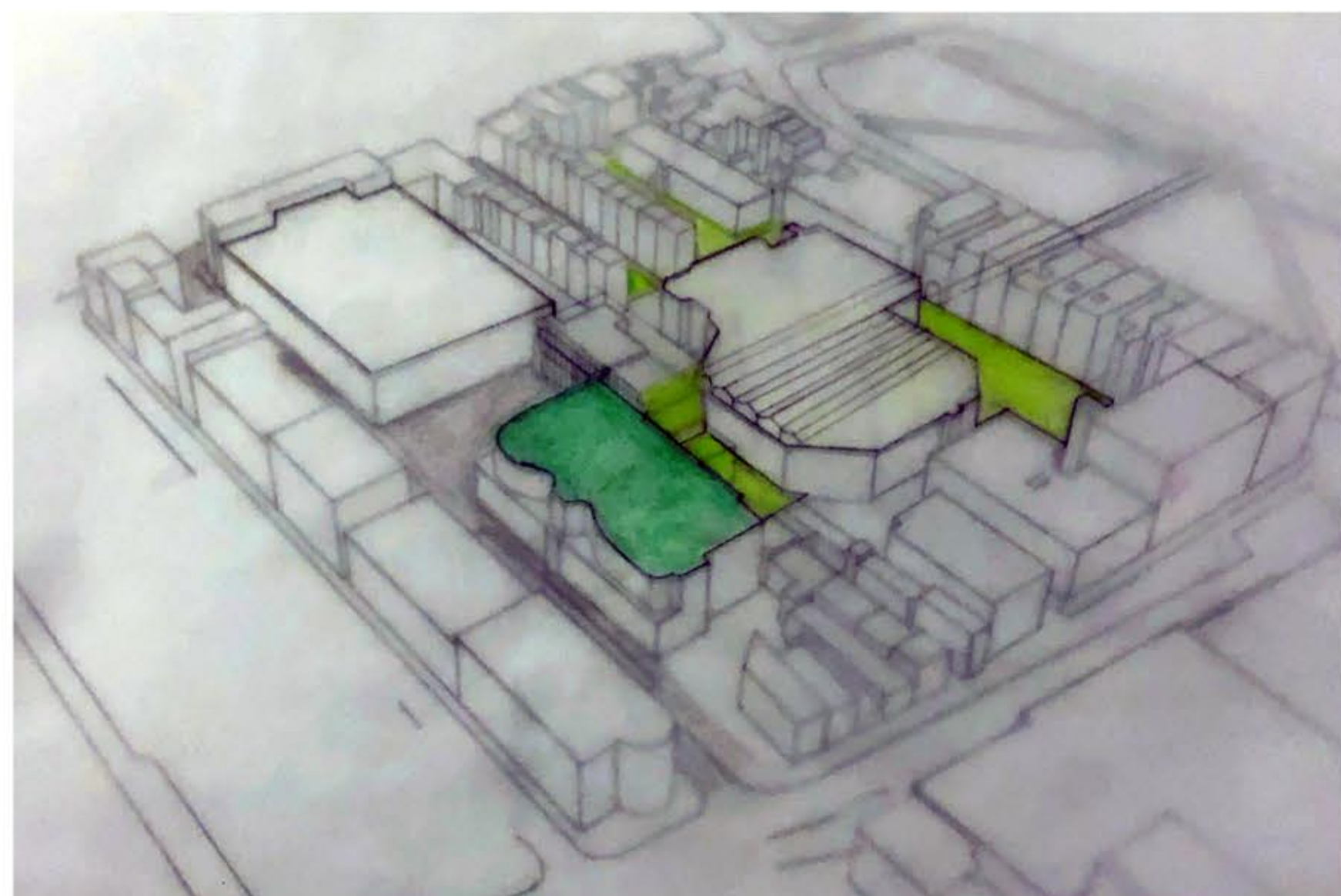
Concept Sketches



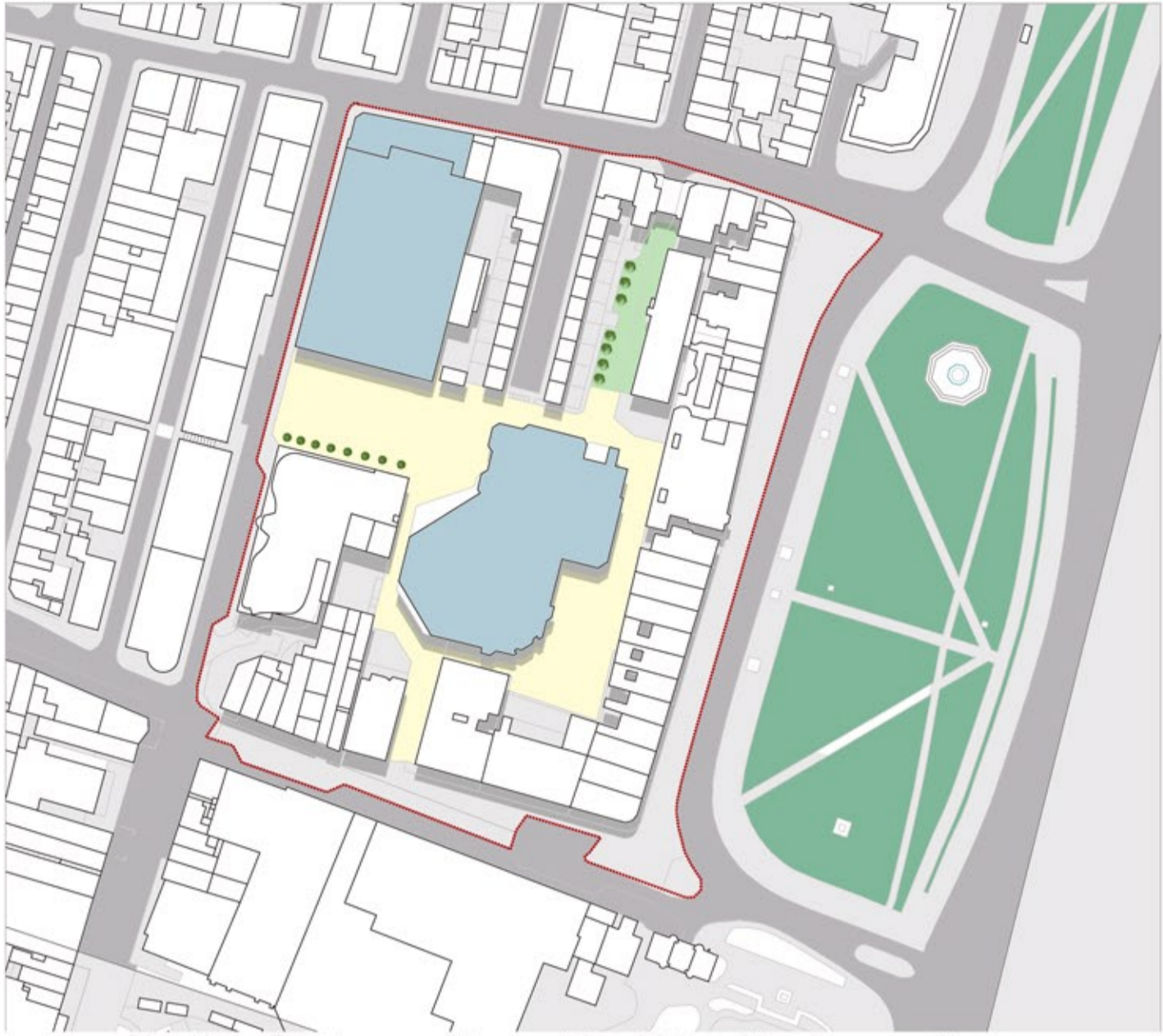
Aerial View - The main concept is to work the urban farm on the rooftop of the focus area and the proposed hotel will be an extension to the existing



Educational spaces are also essential due to the nearby nursery school



Concept scenarios



Plan View: Existing conditions with additional landscape edits



Plan View: Rooftop greenhouses on the Jubilee Library and the Swimming Pool Complex in relation to the rooftop hotel farm and the new proposed hotel



Plan View: Testing and experimenting the hotel orientation

Existing

Intervention

Urban Scale



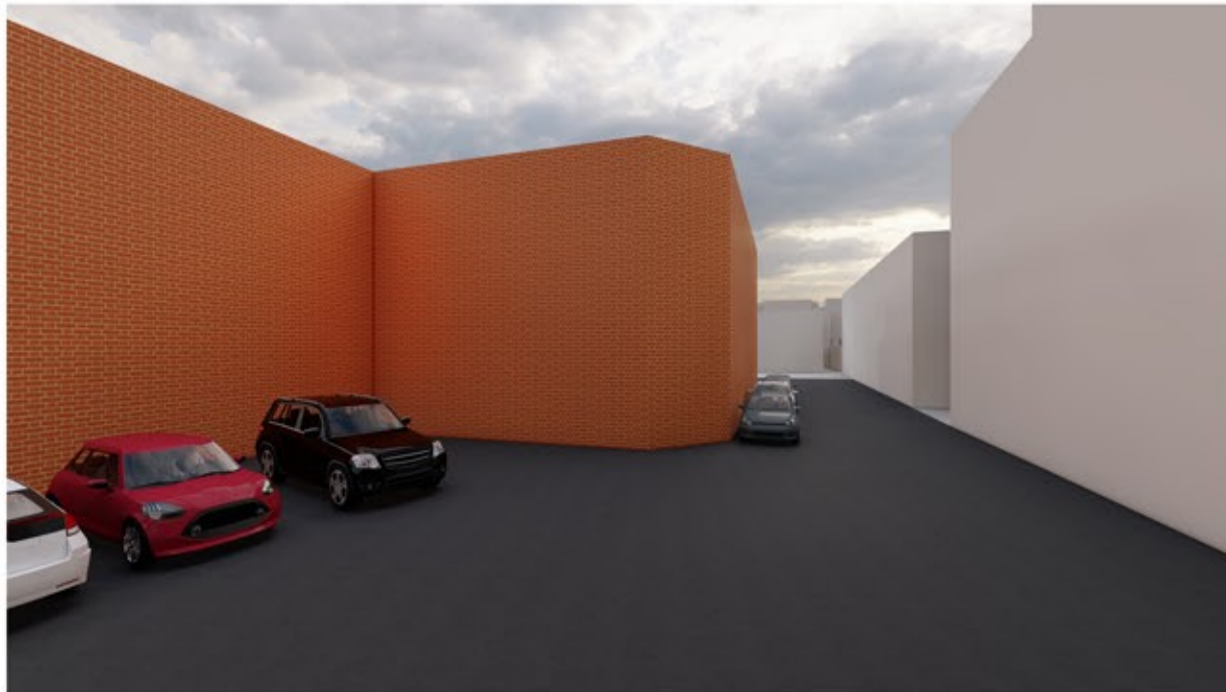
Building Scale



Street Scale



Human Scale



Activating the Jubilee Square

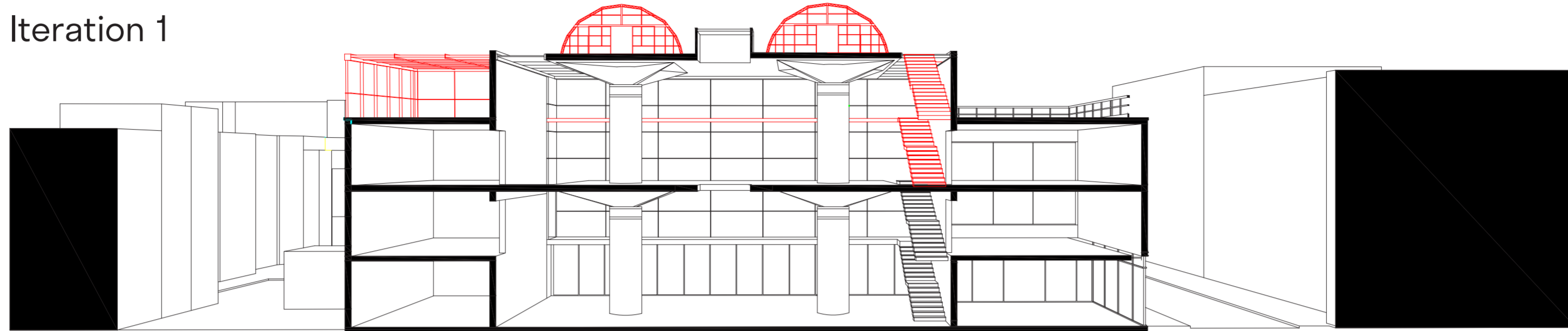
by the use of different architectural language.
The arches represent the extension of the
existing restaurant



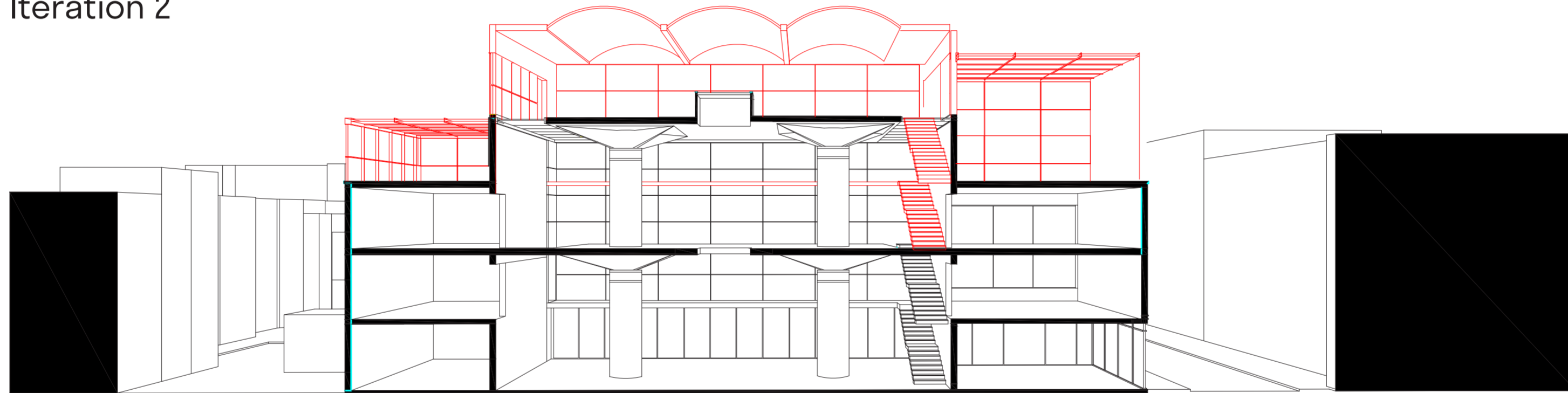
Urban Farm Section

Inspo: RIBA Exhibition _ Long Life Low Energy

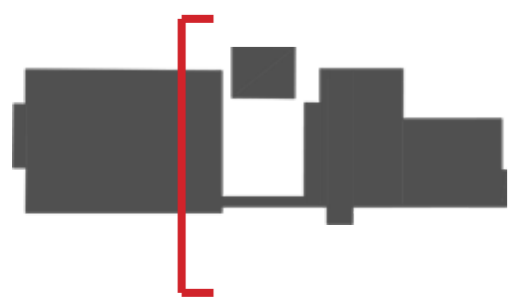
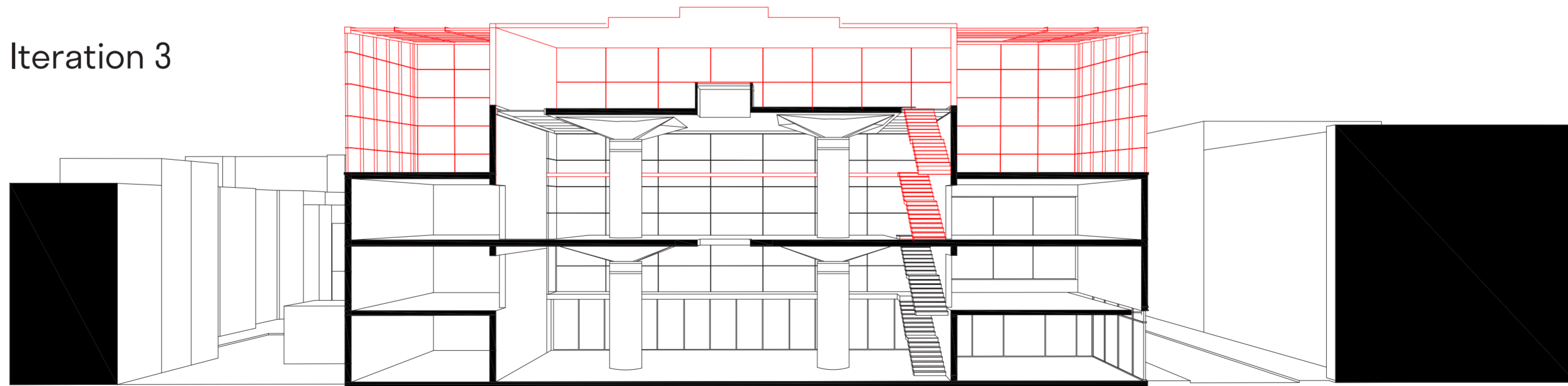
Iteration 1



Iteration 2



Iteration 3



Existing
Proposed

What & How to grow spices /herbs

How to grow spices / herbs

Sun loving crops

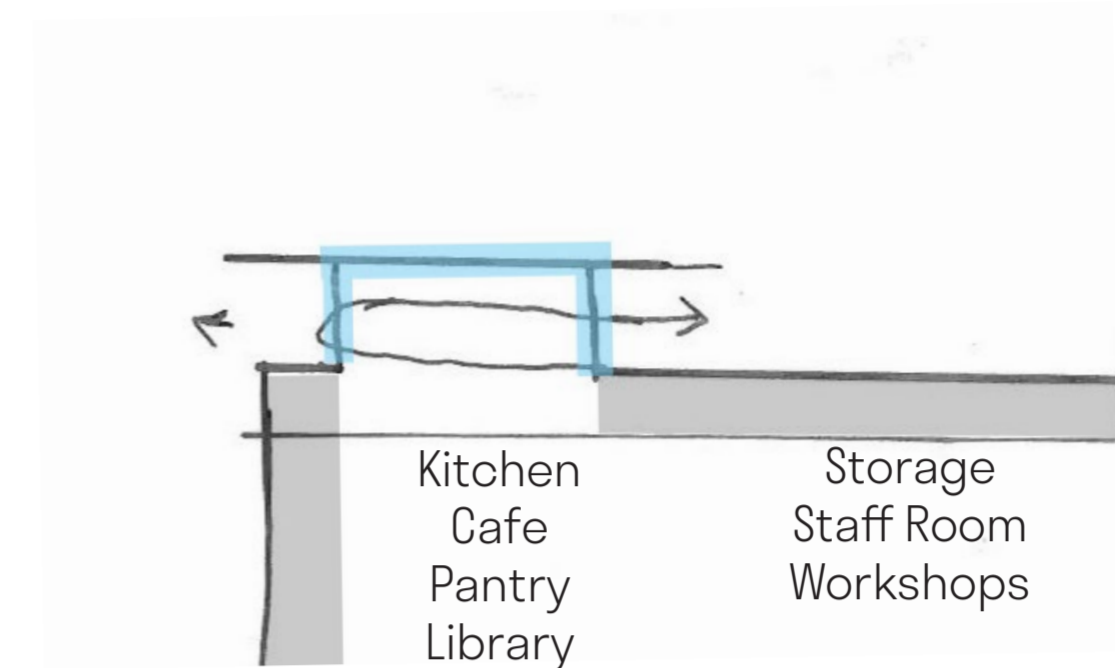
Mint
Chive
Parsley
Lovage
Dill

Shade loving crops

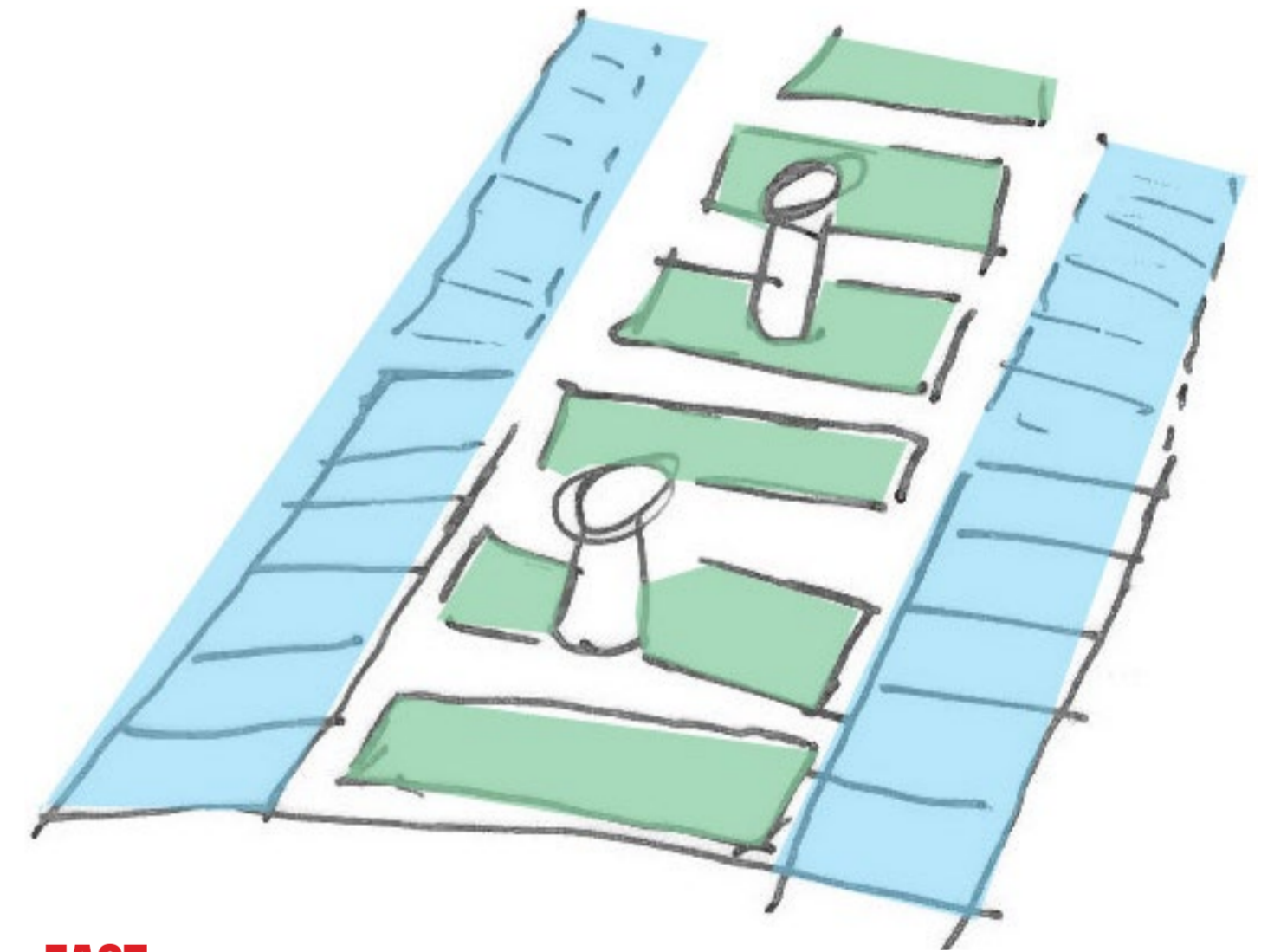
Rosemary
Oregano
Thyme



Testing and illustrating the orientation of the crops depending on the heights of each crop

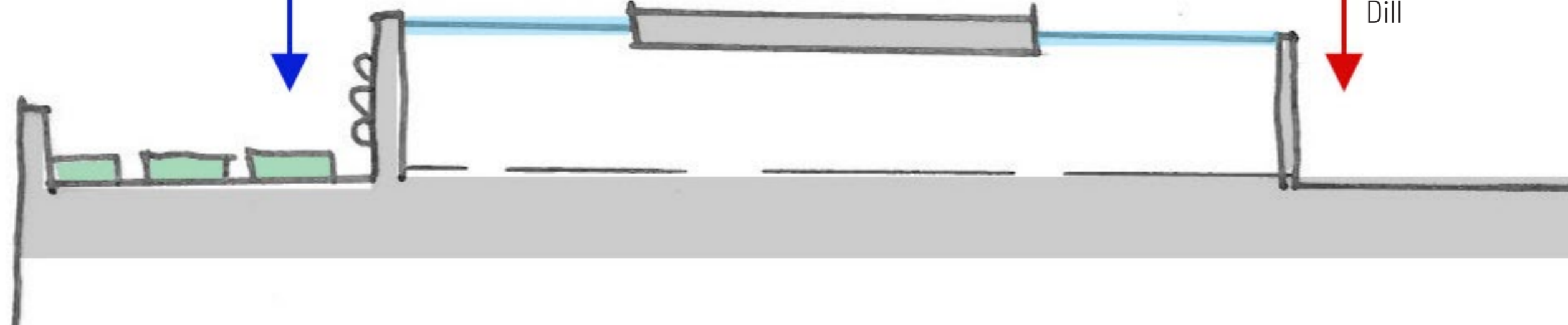


Testing the proper herb arrangement in relation to the existing library structure.



WEST

Rosemary
Oregano
Thyme



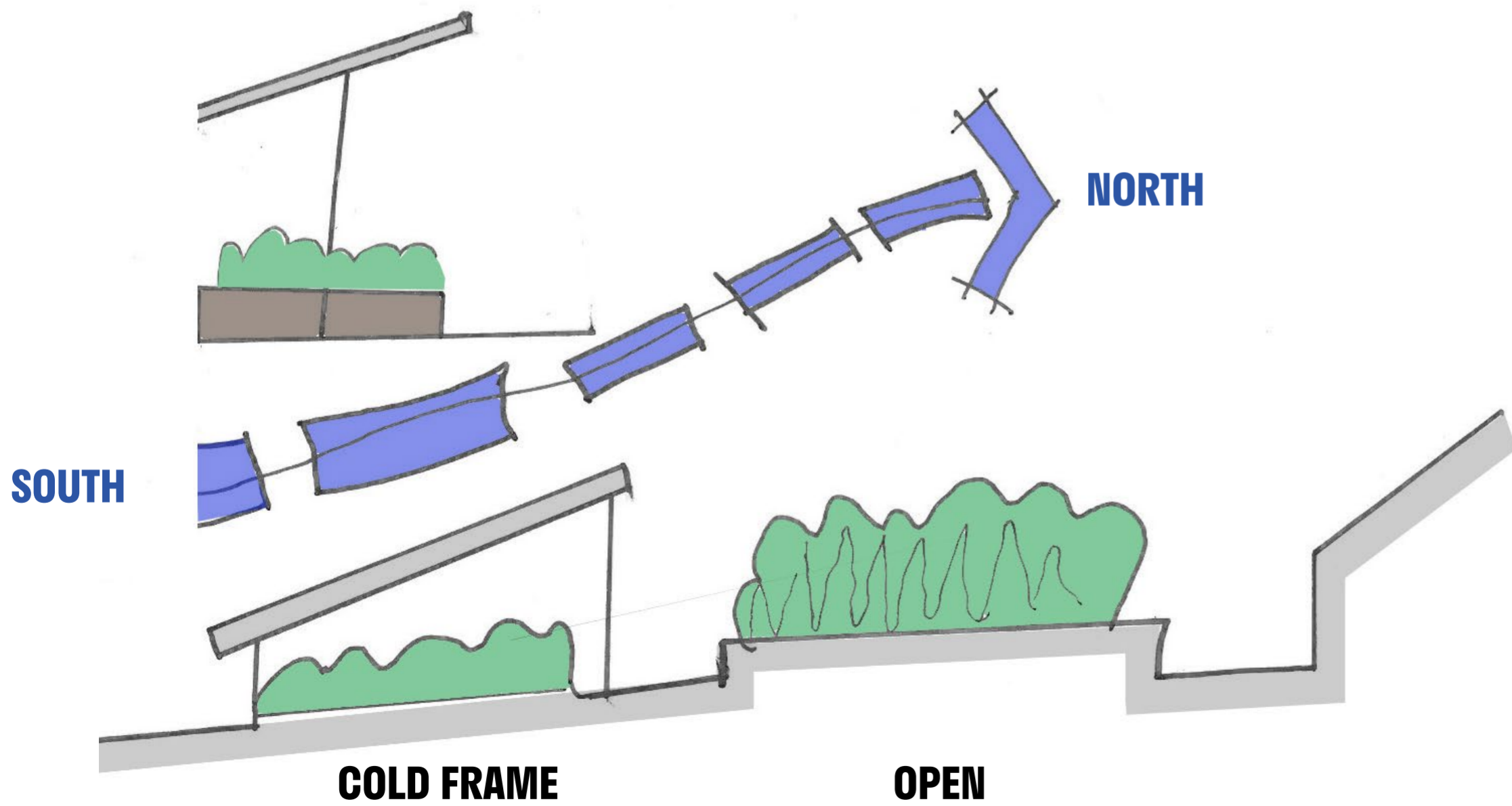
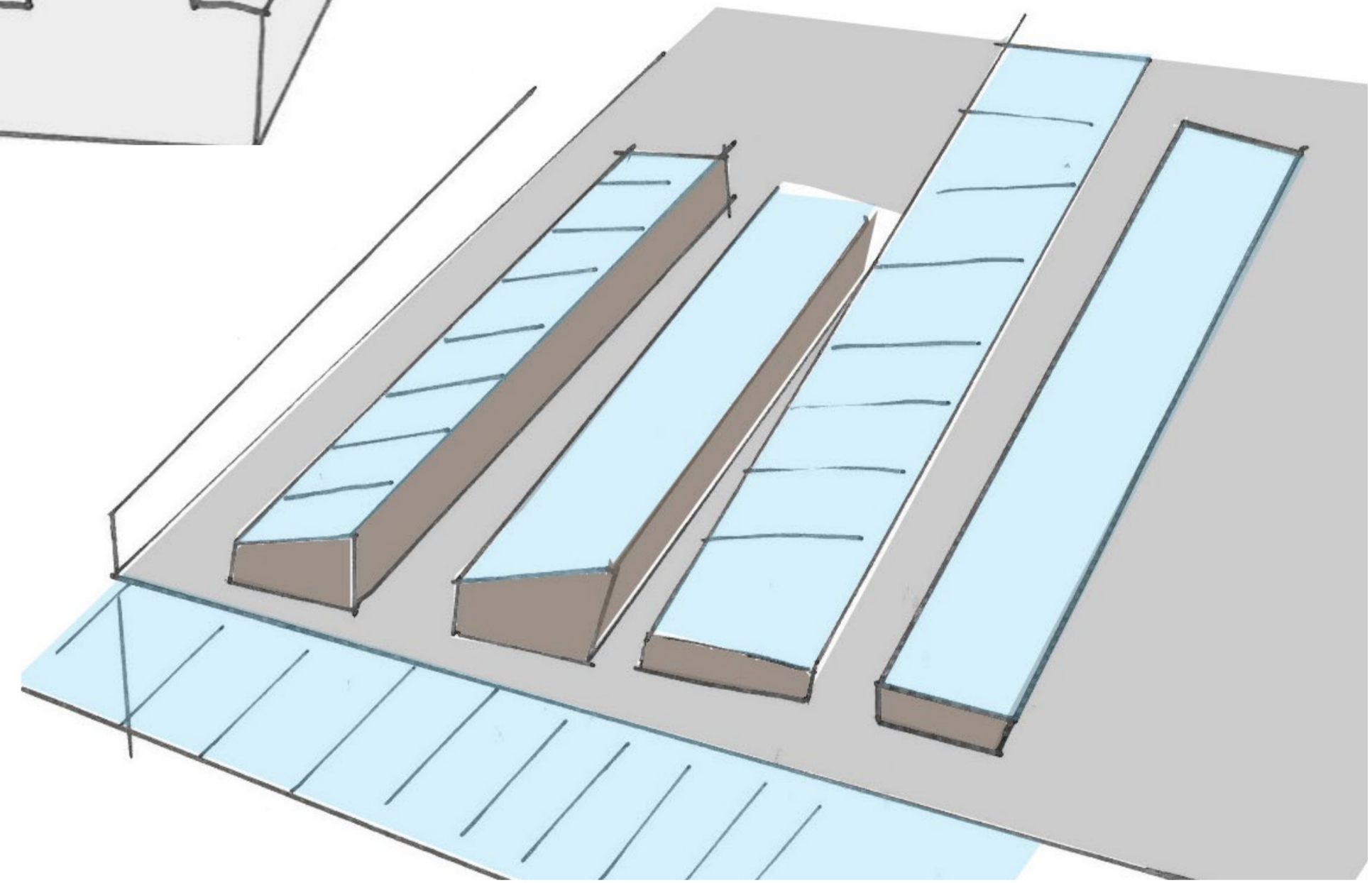
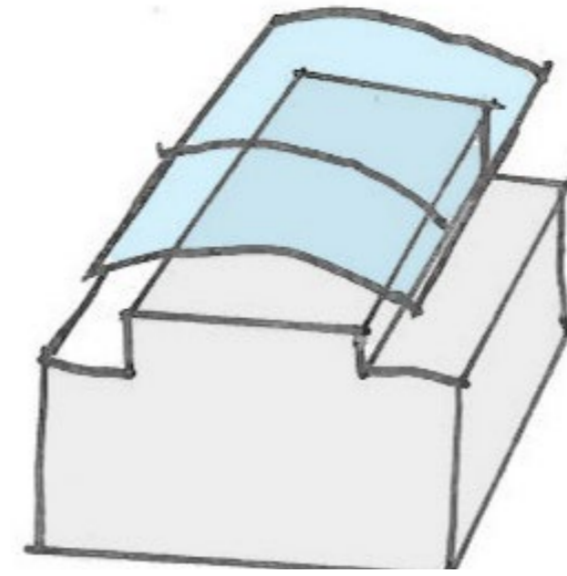
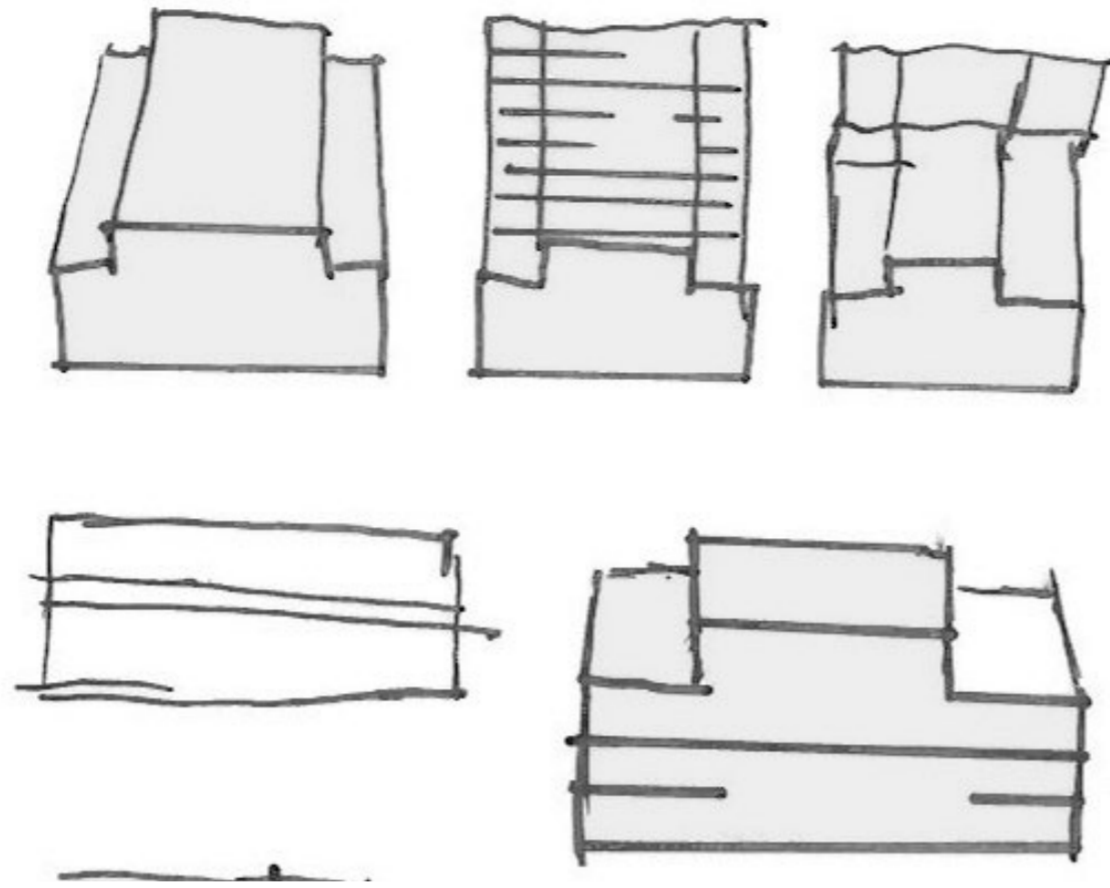
Mint
Chive
Parsley
Lovage
Dill

EAST

Testing and illustrating the orientation of the crops depending on the sunlight

Structure Strategy:

Testing and illustrating several possibilities of the urban farm. The structure that will cover the urban farm needs to be lightweight and not heavy. On the other hand, the urban farm can be semi-opened and cover the spacial elements where the urban farm can be left as opened.



The herbs will be grown into cold frames. In autumn they are useful in protecting cuttings and young plants from cooler, unsettled weather and the first frosts (but only mild frosts). In winter, coldframes and mini-greenhouses can be used to shield alpines from rain and so prevent them from rotting.



Activating the new use of pizza express as an exhibitional and observatory space

Material Process

Inspo: RIBA Exhibition _ Long Life Low Energy



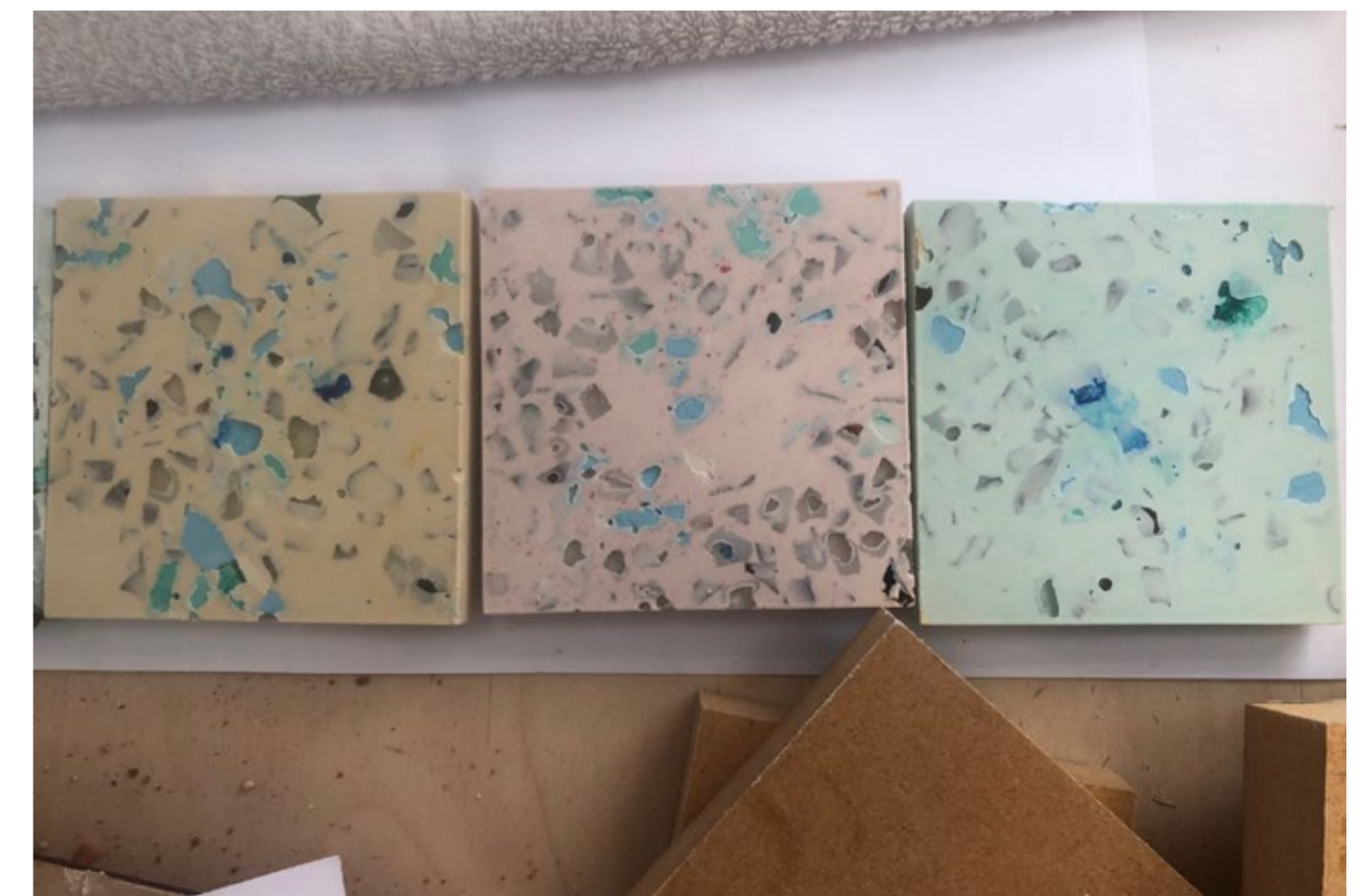
Tiles made with reusable materials such as oranges, crashed glass and cork



Made a mold to place the reusable stones



Mix with plaster and colour



These tiles consist of crashed glass with wood found from construction sites, and plaster stones (customised)

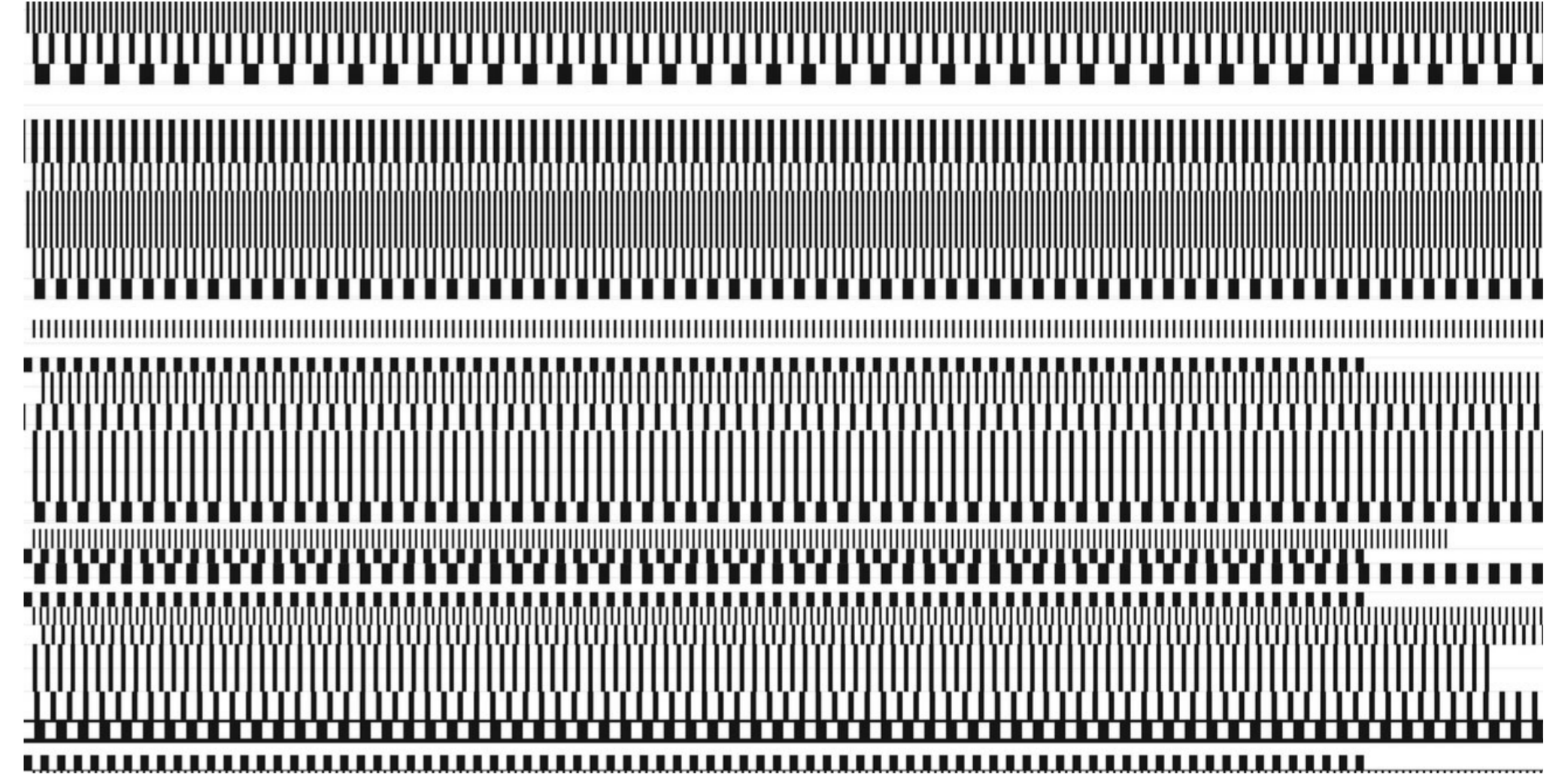
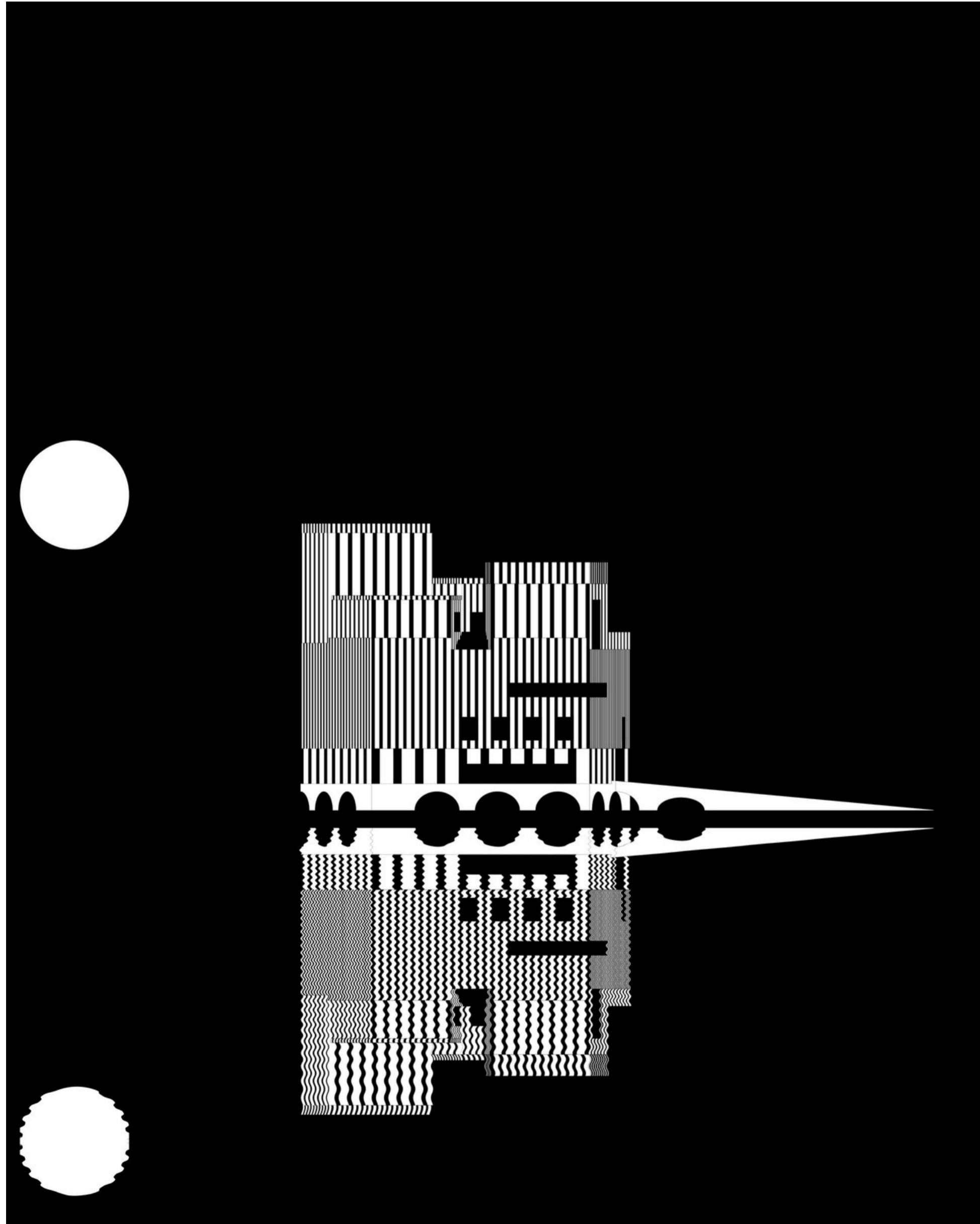
Reference 1

Island Quarter
By Jestico & Whiles



Reference 2

Guggenheim
By Adam Khan



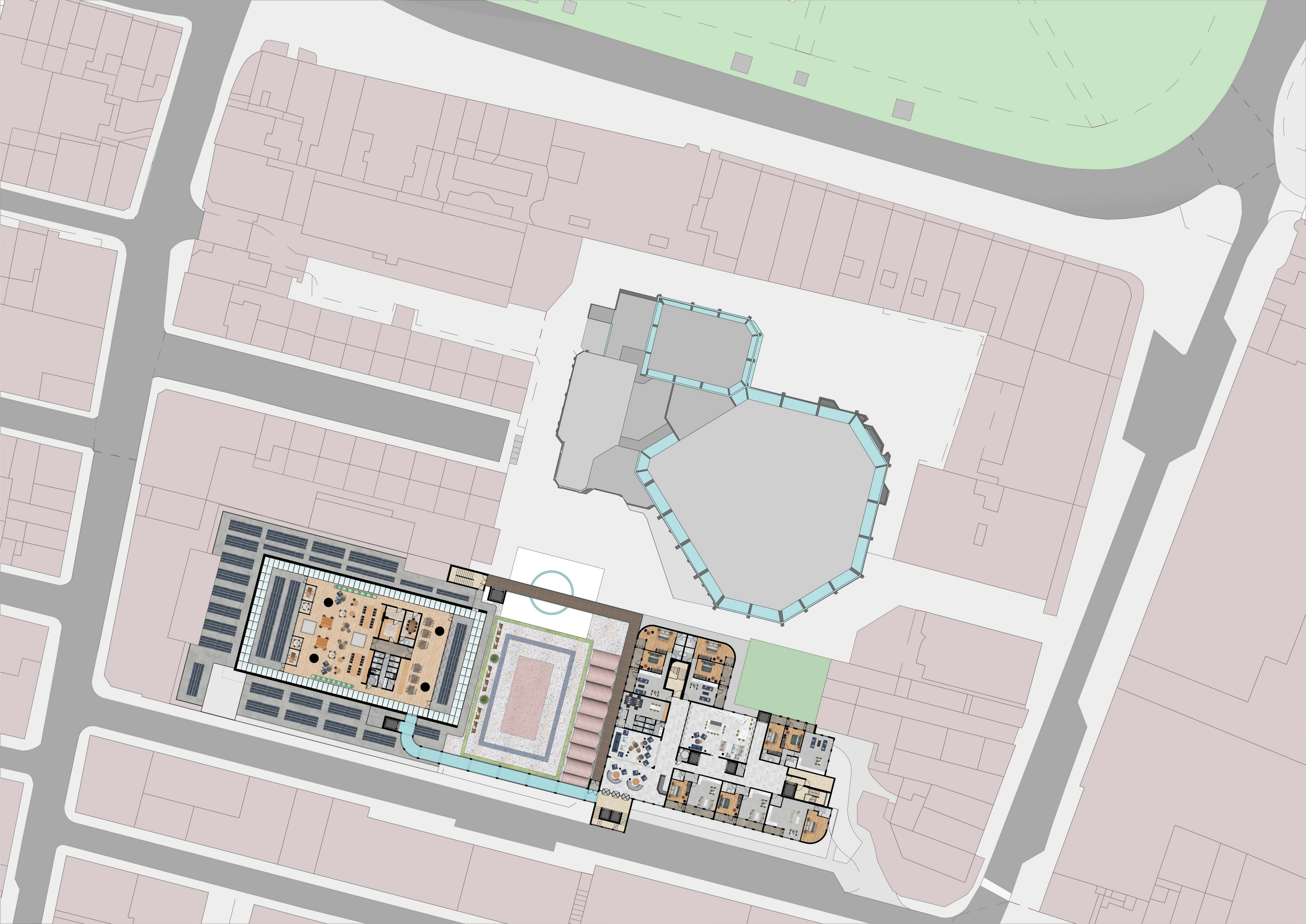
Reference 3

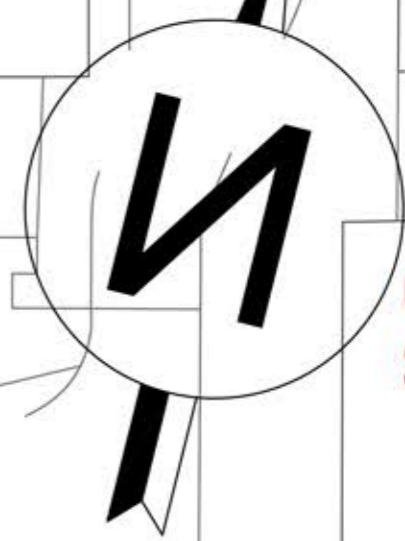
Allianz Headquarters
By Wiel Arets Architects



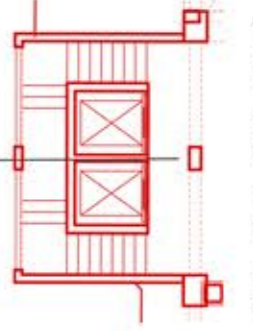
Walking through
the Final Design..





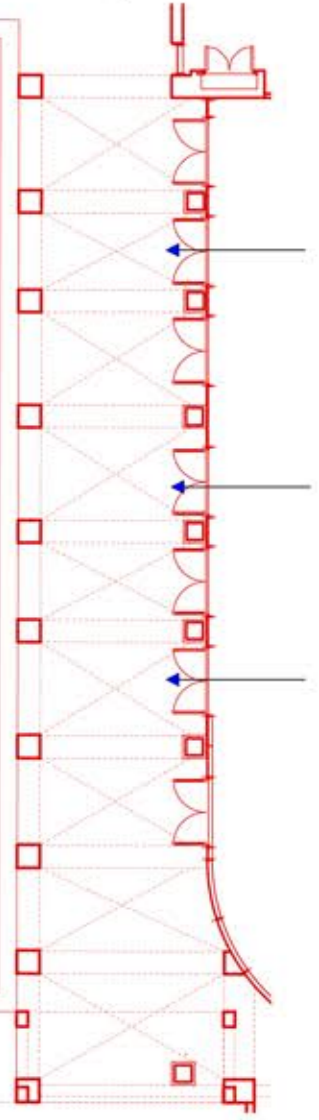


Ground Floor Plan
Scale: 1:200@A1

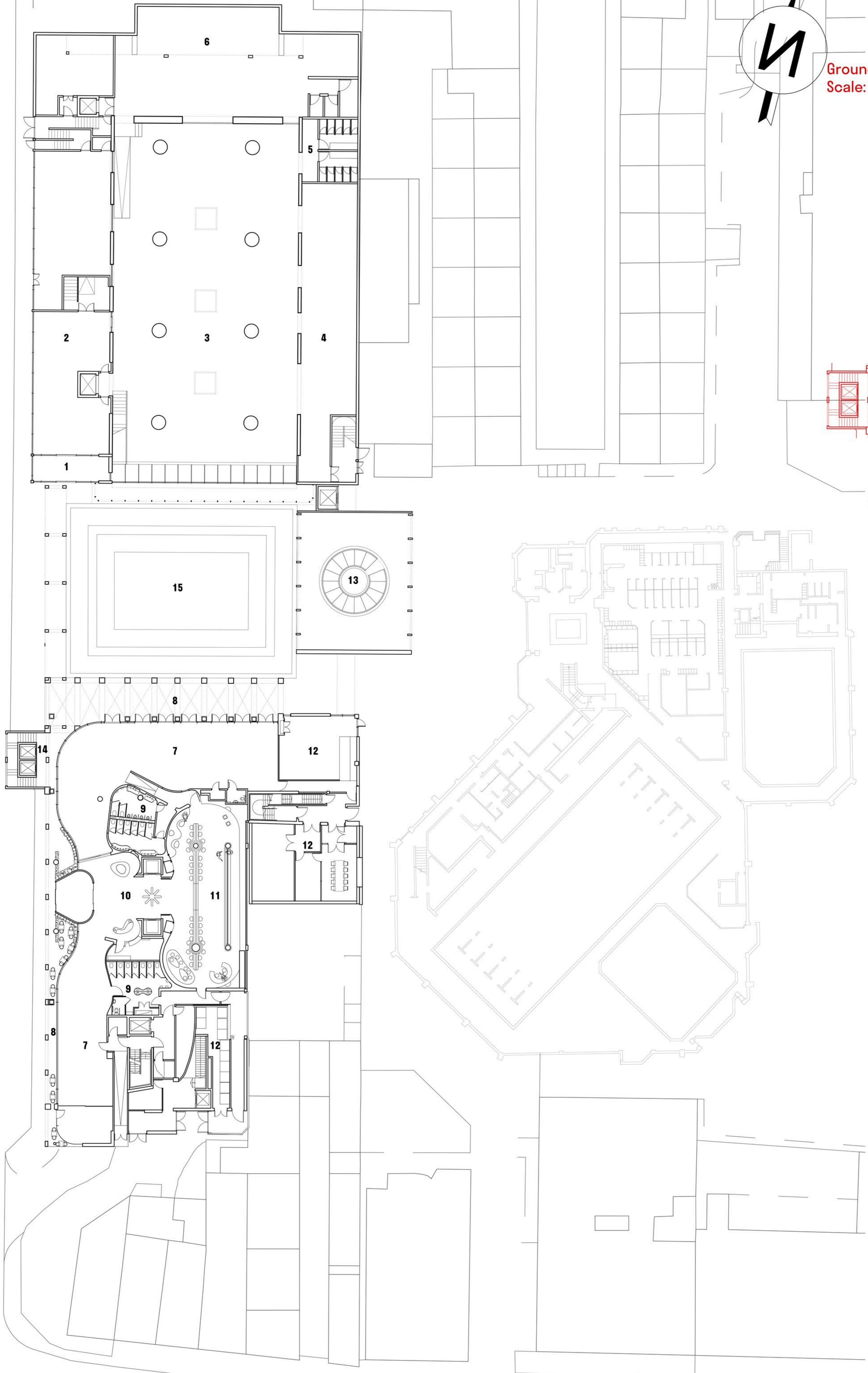


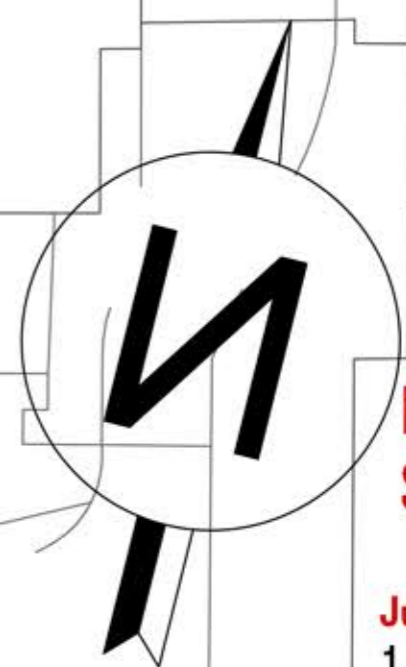
The tower is the main circulation point of the project that connects the existing hotel with the existing library and the proposed elements.

8. Extended Outdoor Social Space



Existing Restaurant





First Floor Plan
Scale: 1:200@A1

Jubilee Library (Mezzanine Floor):

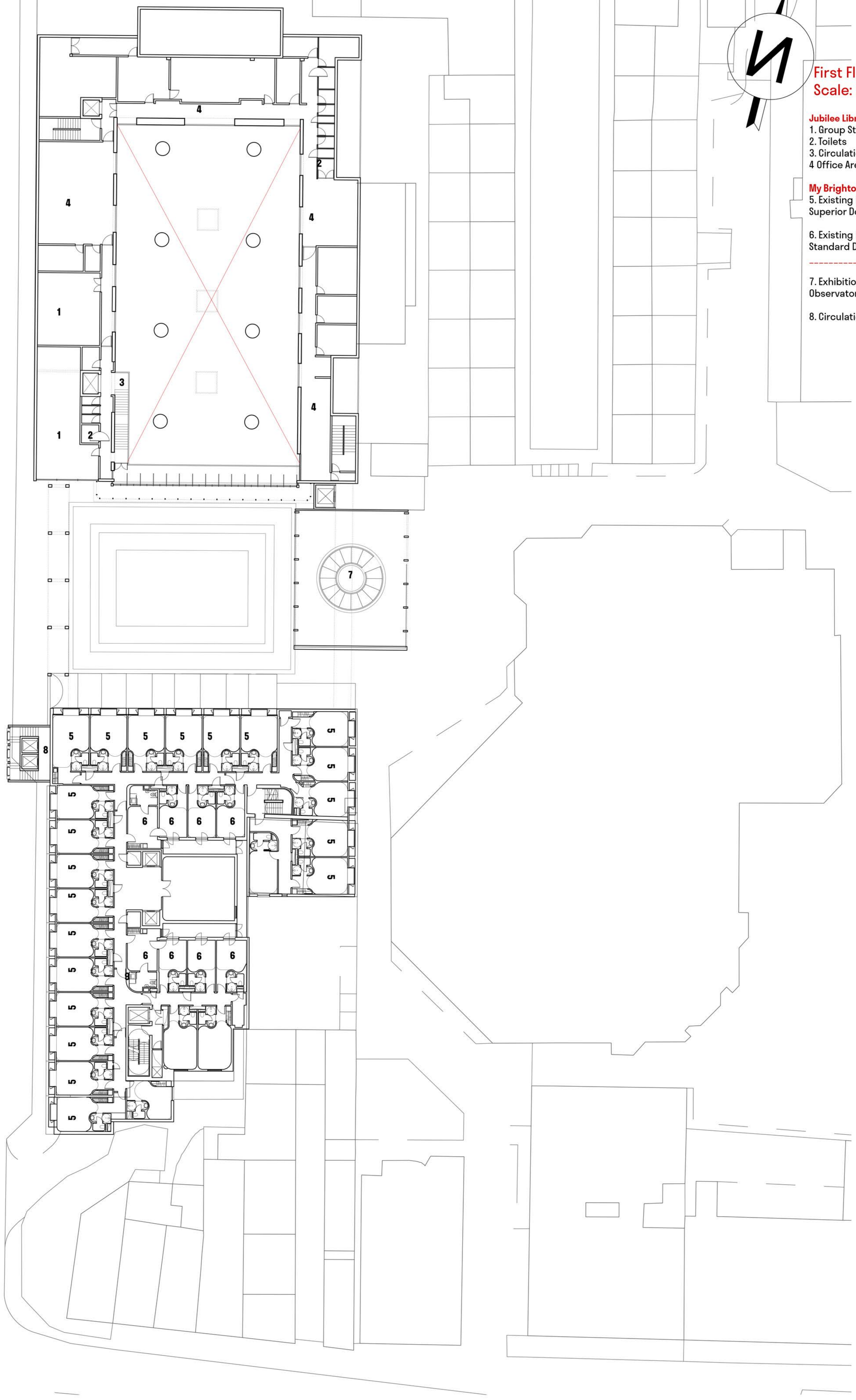
- 1. Group Study Room
- 2. Toilets
- 3. Circulation
- 4 Office Area

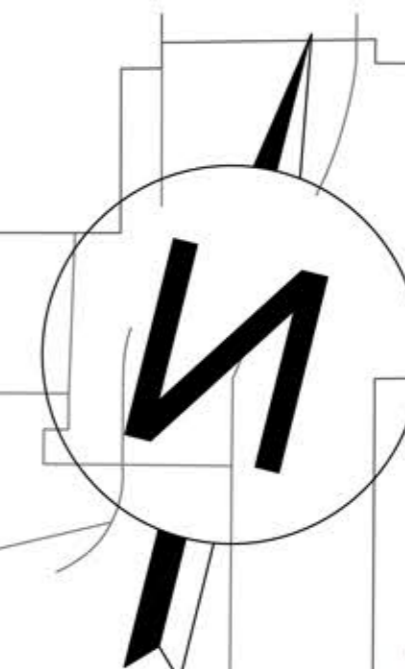
My Brighton Hotel:

- 5. Existing Hotel Rooms
Superior Double Room 24sqm
- 6. Existing Hotel Rooms
Standard Double Room 19sqm

- 7. Exhibition Spaces /
Observatory Centre

- 8. Circulation Tower





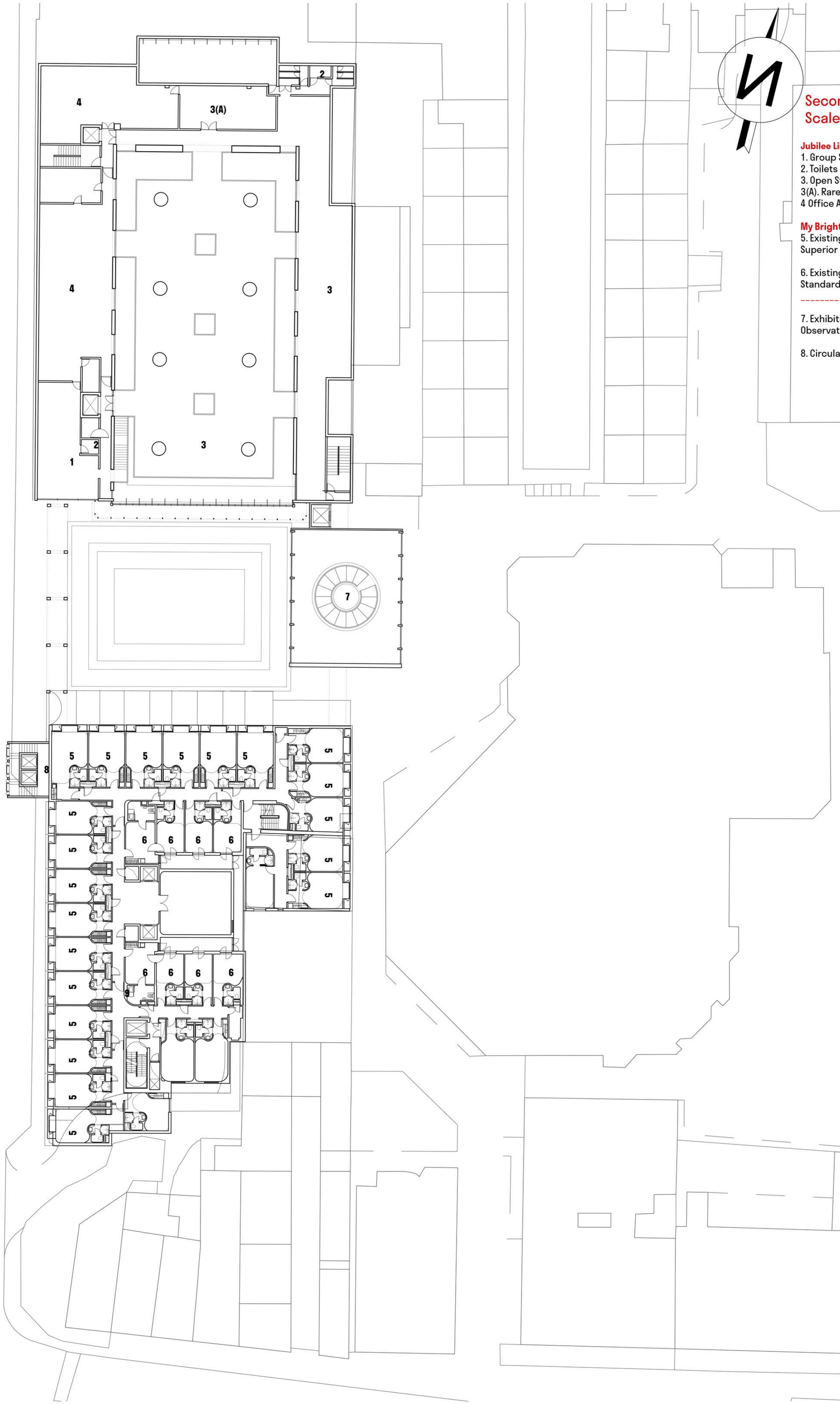
Second Floor Plan
Scale: 1:200@A1

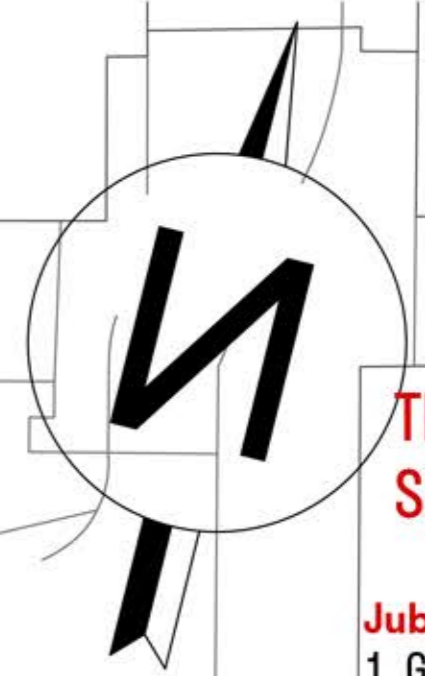
Jubilee Library (Mezzanine Floor):

- 1. Group Study Room
- 2. Toilets
- 3. Open Study Area
- 3(A). Rare Books Section
- 4 Office Area

My Brighton Hotel:

- 5. Existing Hotel Rooms
Superior Double Room 24sqm
- 6. Existing Hotel Rooms
Standard Double Room 19sqm
- 7. Exhibition Spaces /
Observatory Centre
- 8. Circulation Tower





Third Floor Plan
Scale: 1:200@A1

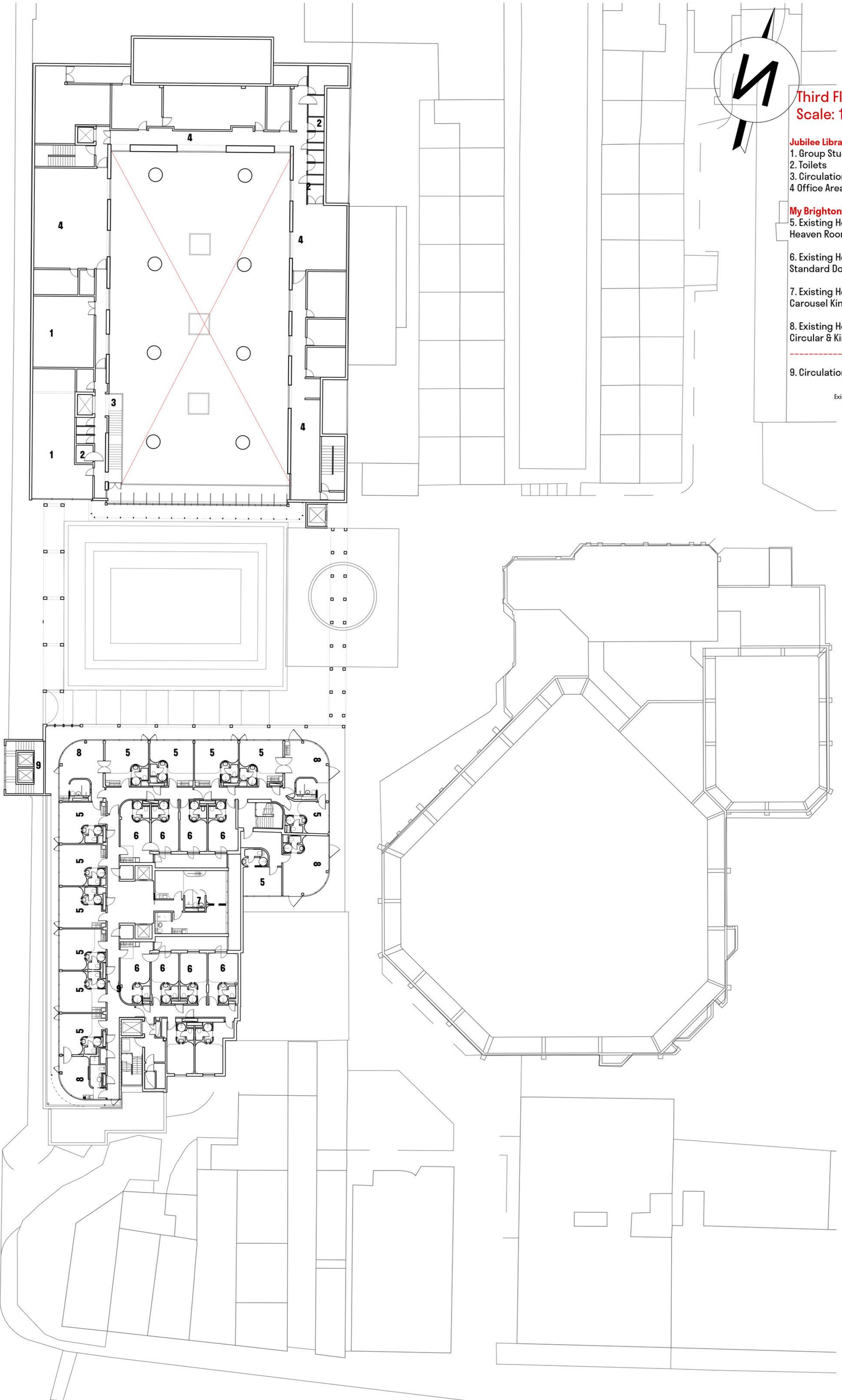
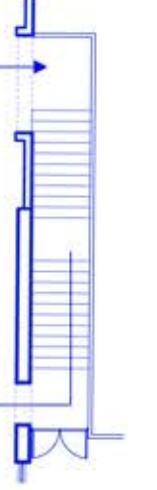
Jubilee Library (Mezzanine Floor)

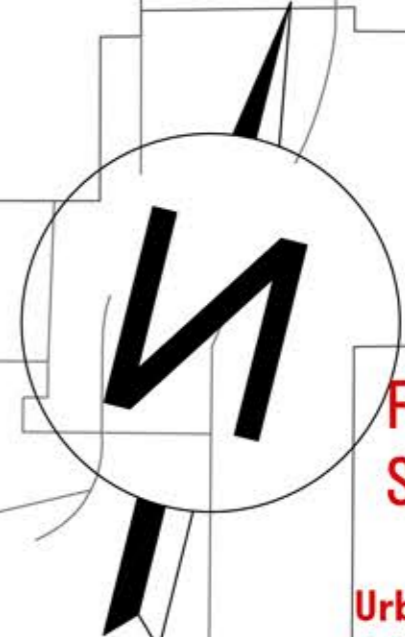
- 1. Group Study Room
- 2. Toilets
- 3. Circulation
- 4. Office Area

My Brighton Hotel:

- 5. Existing Hotel Rooms
Heaven Room 20sqm
- 6. Existing Hotel Rooms
Standard Double Room 19sqm
- 7. Existing Hotel Room
Carousel King Suite 62 sqm
- 8. Existing Hotel Rooms
Circular & King Suites 35sqm
- 9. Circulation Tower

Existing Circulation of the library extends to the proposed urban farm





Fourth Floor Plan Scale: 1:200@A1

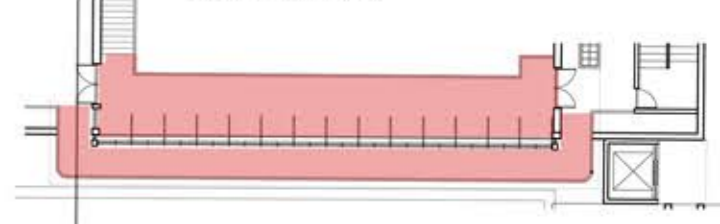
- Urban Farm**
- 1. Urban Herb Farm
 - 2. Changing rooms
 - 3. Circulation
 - 4. Storage

5. Circulation Tower

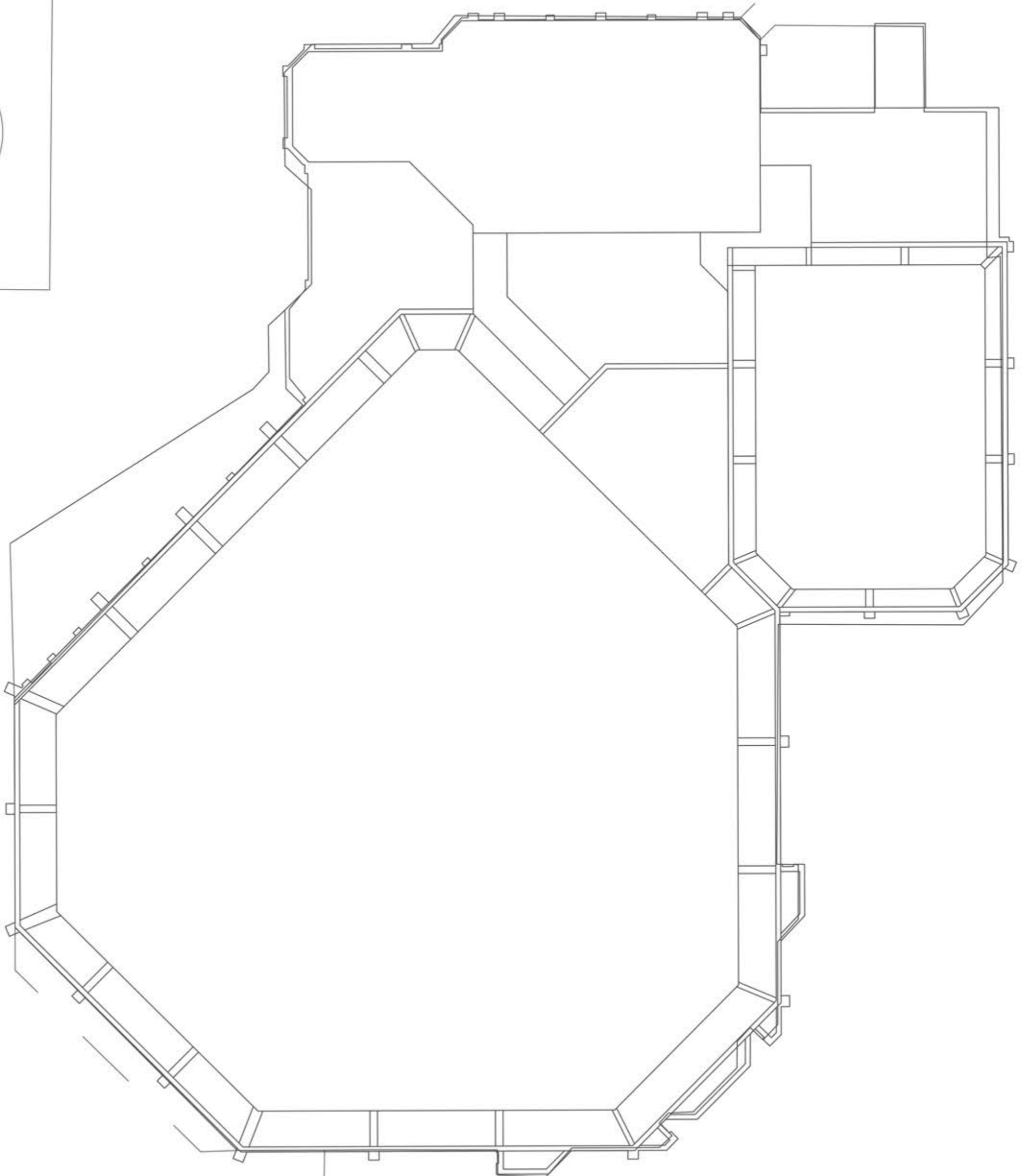
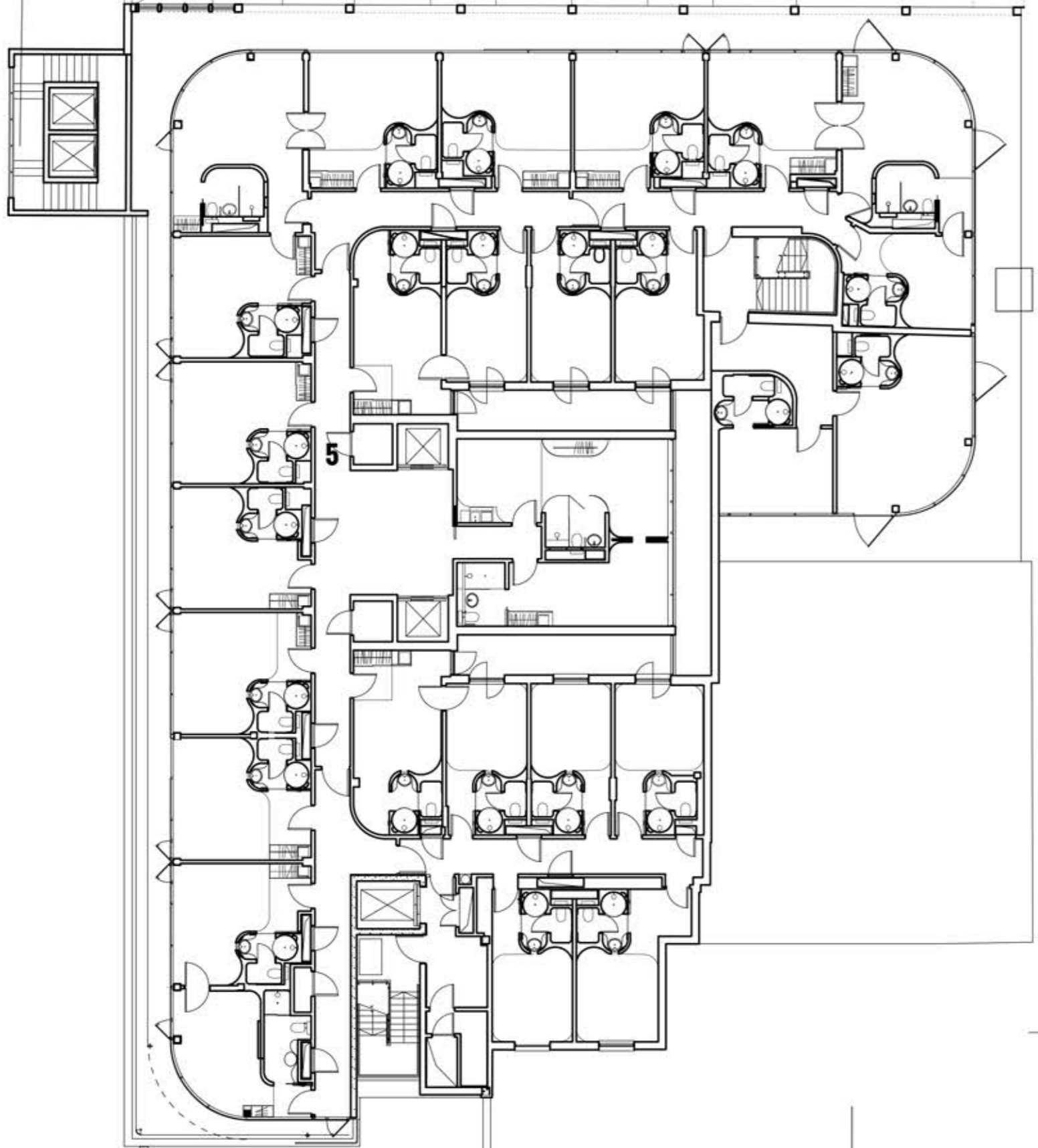
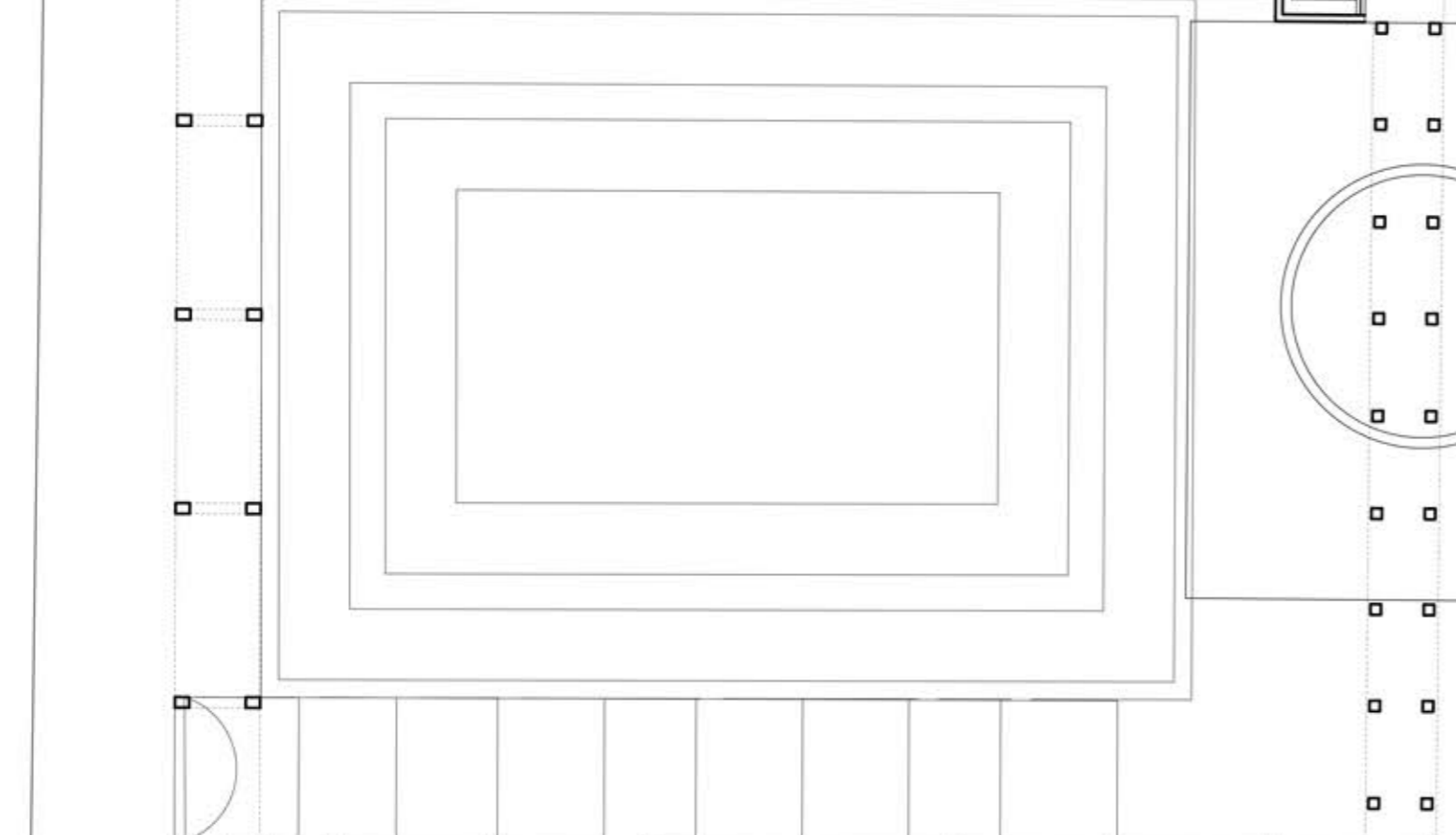
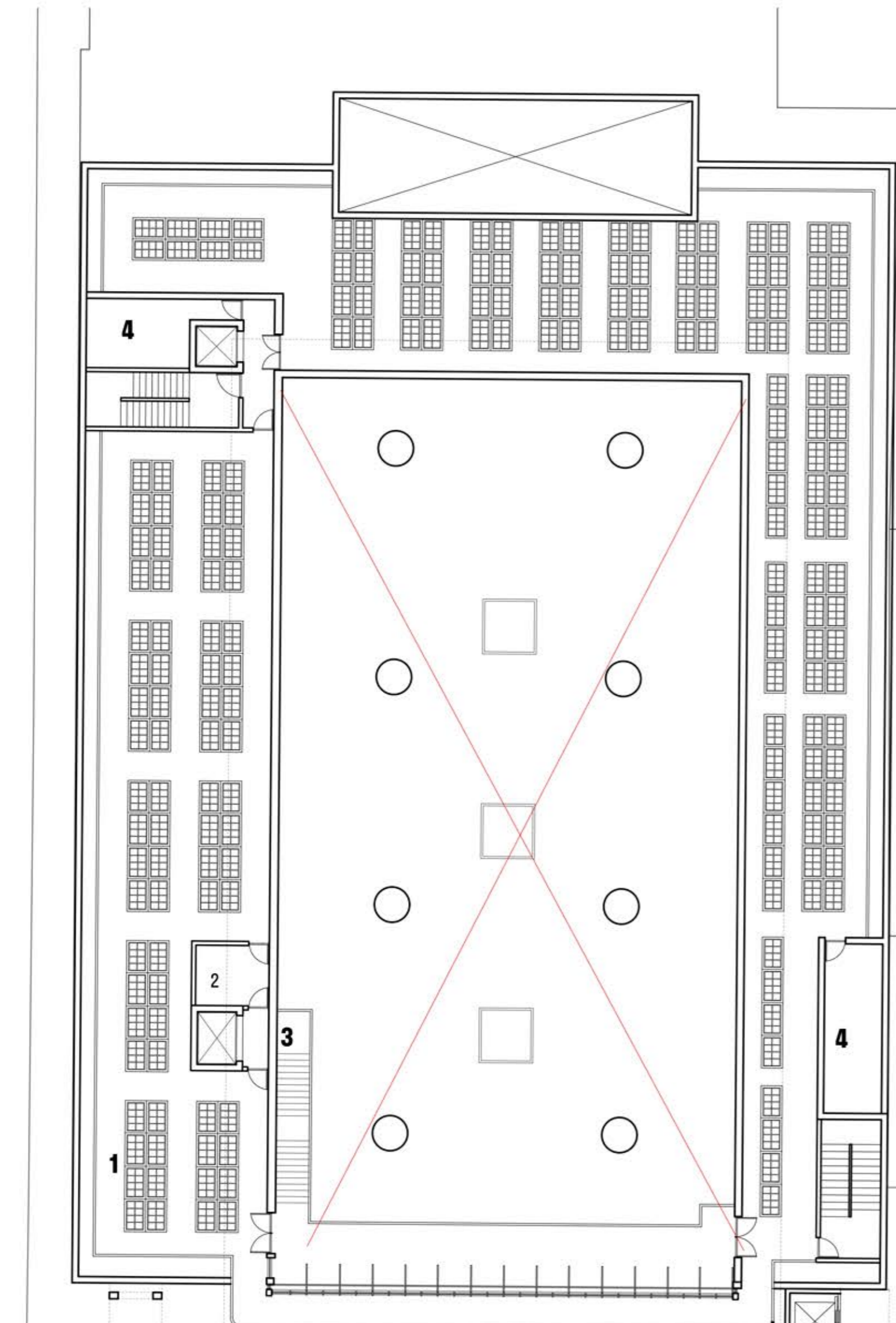
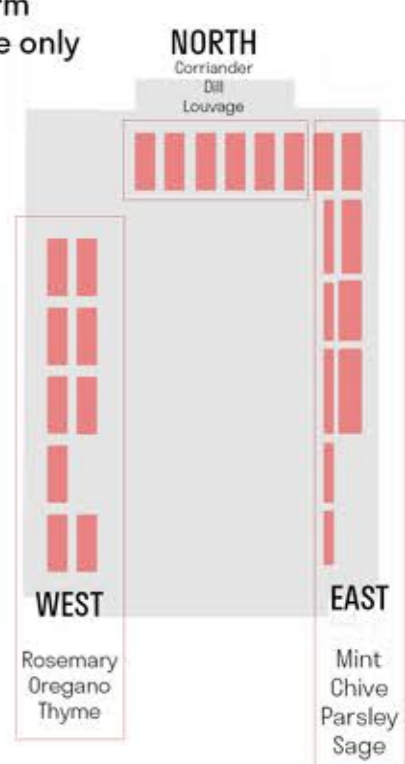
Circulation & Access

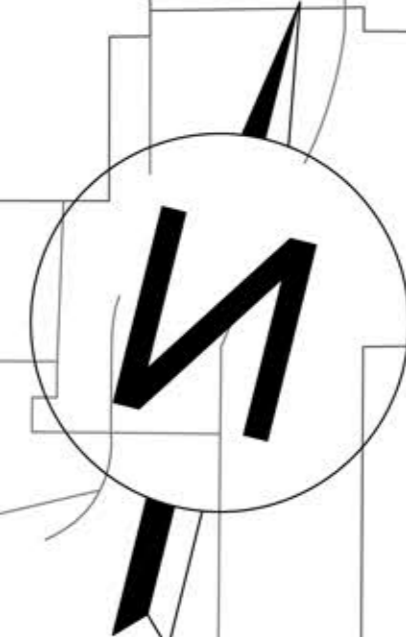
The existing library circulation is extended to connect the urban elements with the productive landscape.

This diagram illustrates the proposed interior and outdoor bridges to connect the 2 sides of the urban farm.



Urban Herbs Farm
For grower's use only

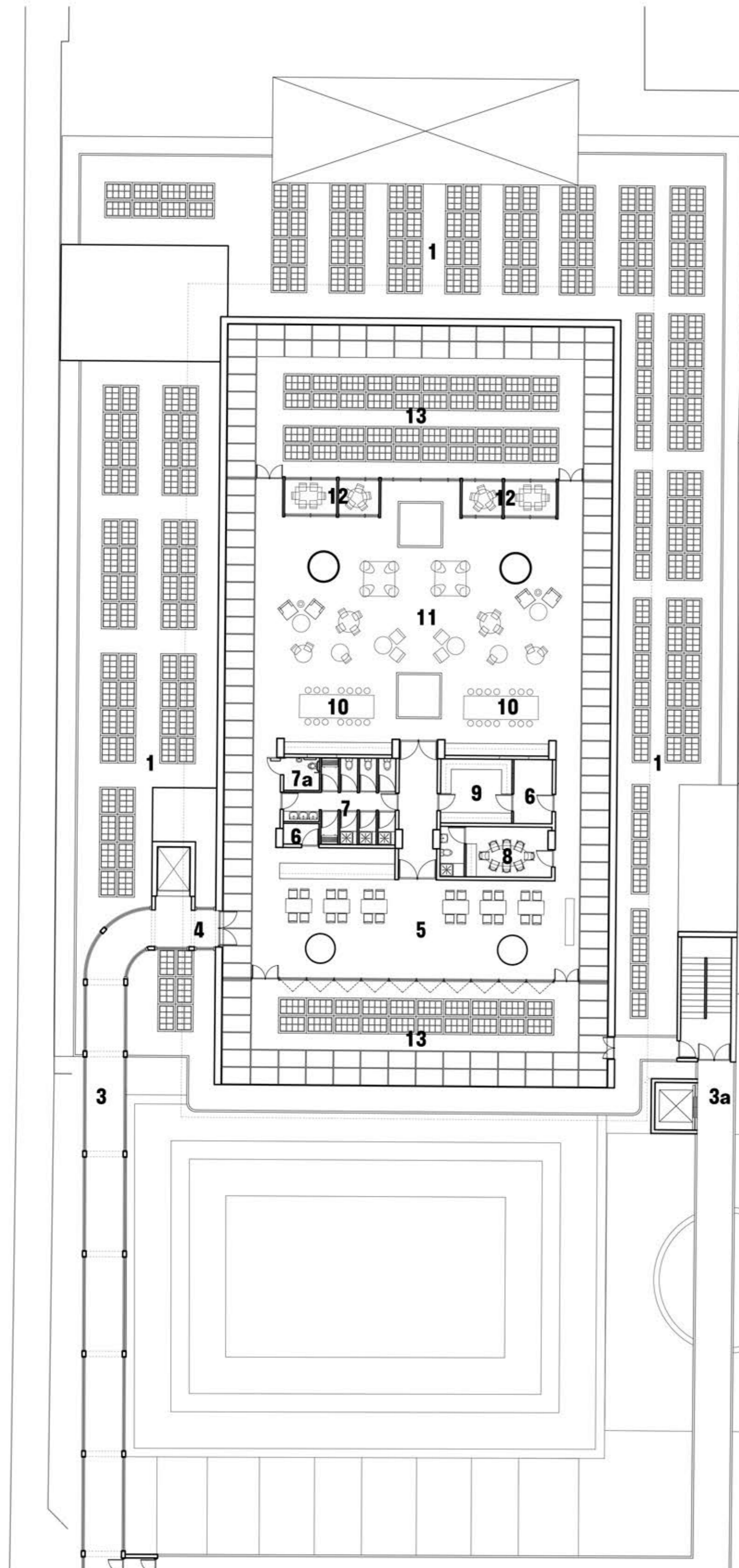




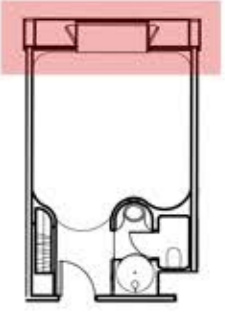
Fifth Floor Plan
Scale: 1:200@A1

- Productive Farm**
- 1. Urban Herb Farm for professional use
 - 2. Changing rooms
 - 3. Circulation
 - 3a. Circulation for growers
 - 4 Entrance
 - 5. Cafe
 - 6. Storage
 - 7. Toilets & Changing Rooms
 - 7a. Disabled Toilets
 - 8. Staff Room
 - 9. Pantry
 - 10. Social Kitchen - for education
 - 11. Living & Dining area
 - 12. Study Rooms
 - 13. Urban Farm fo education

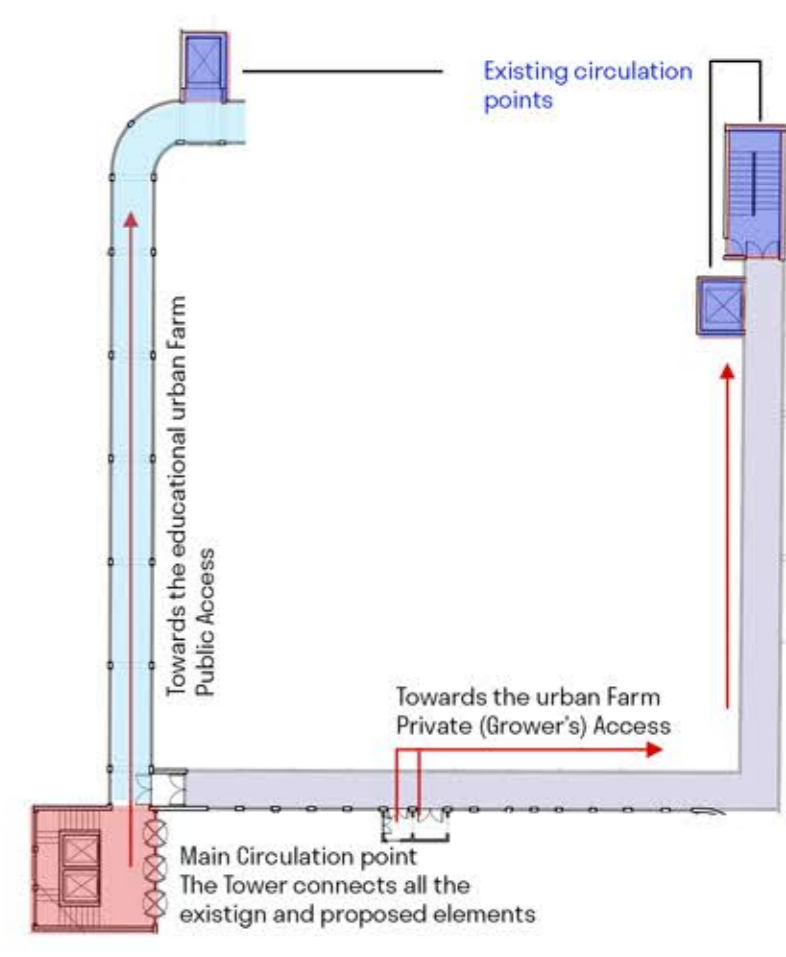
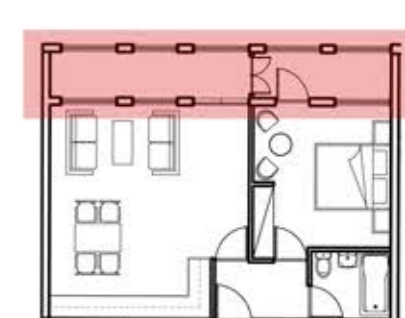
- My Brighton Hotel - Proposed**
- 10. Social Kitchen
 - 11. Lobby
 - 14. 1bed, 2 people. 60sqm
 - 15. Large 1bed, 2people. 75sqm
 - 16. 2bed, 4 people. 95sqm
- 9. Circulation Tower**

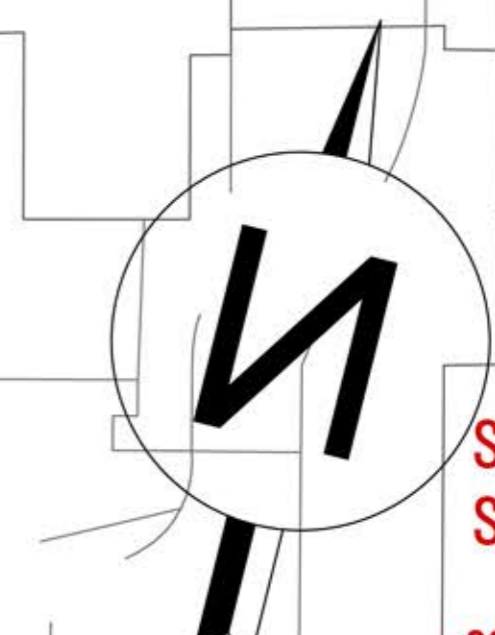


Existing superior room 24sqm
 No balcony access
 Feature floor to ceiling windows



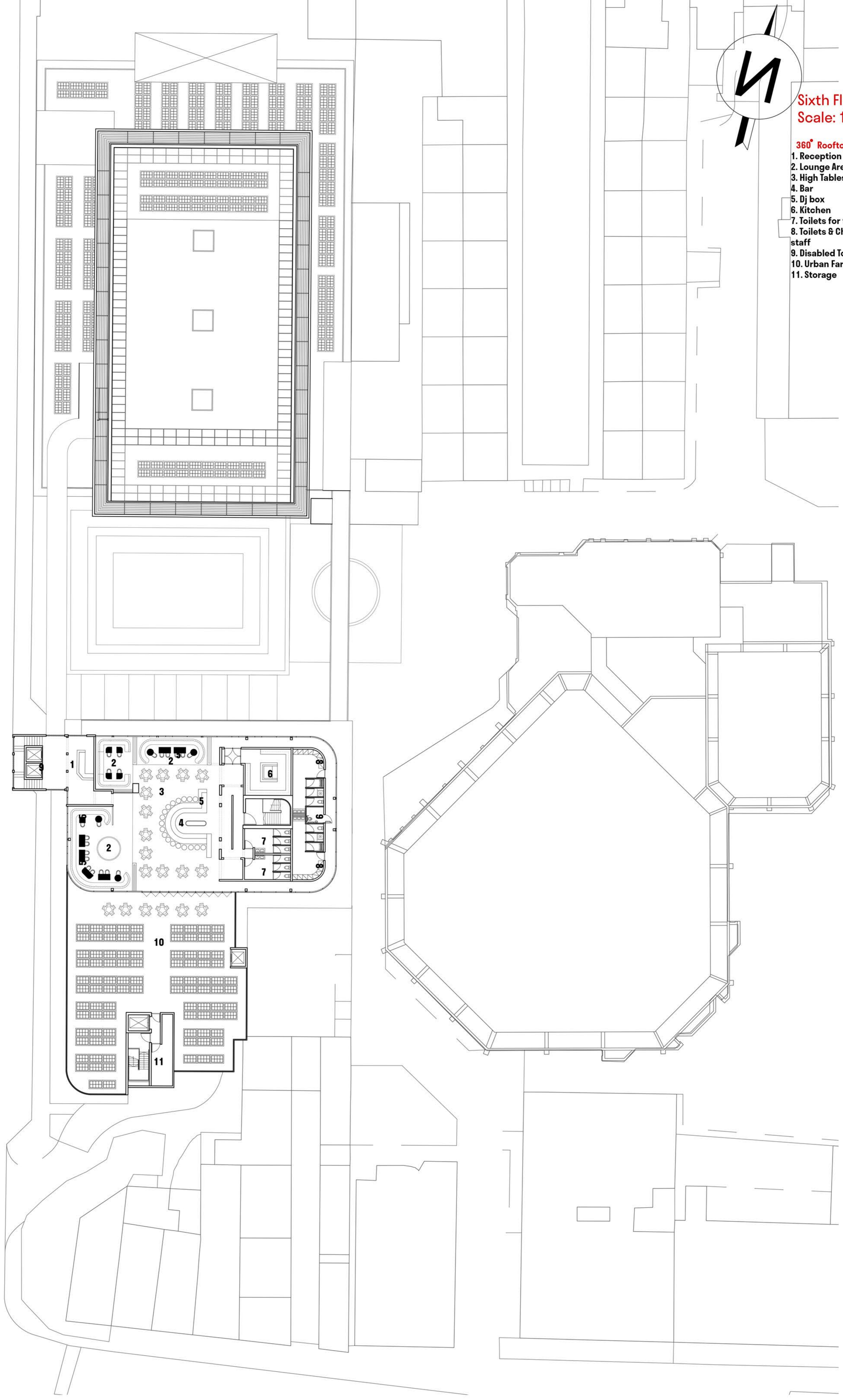
Proposed 1bed. 60sqm
 Inspired by the concept of the existing window features creating interior balconies connected with each room





Sixth Floor Plan
Scale: 1:200@A1

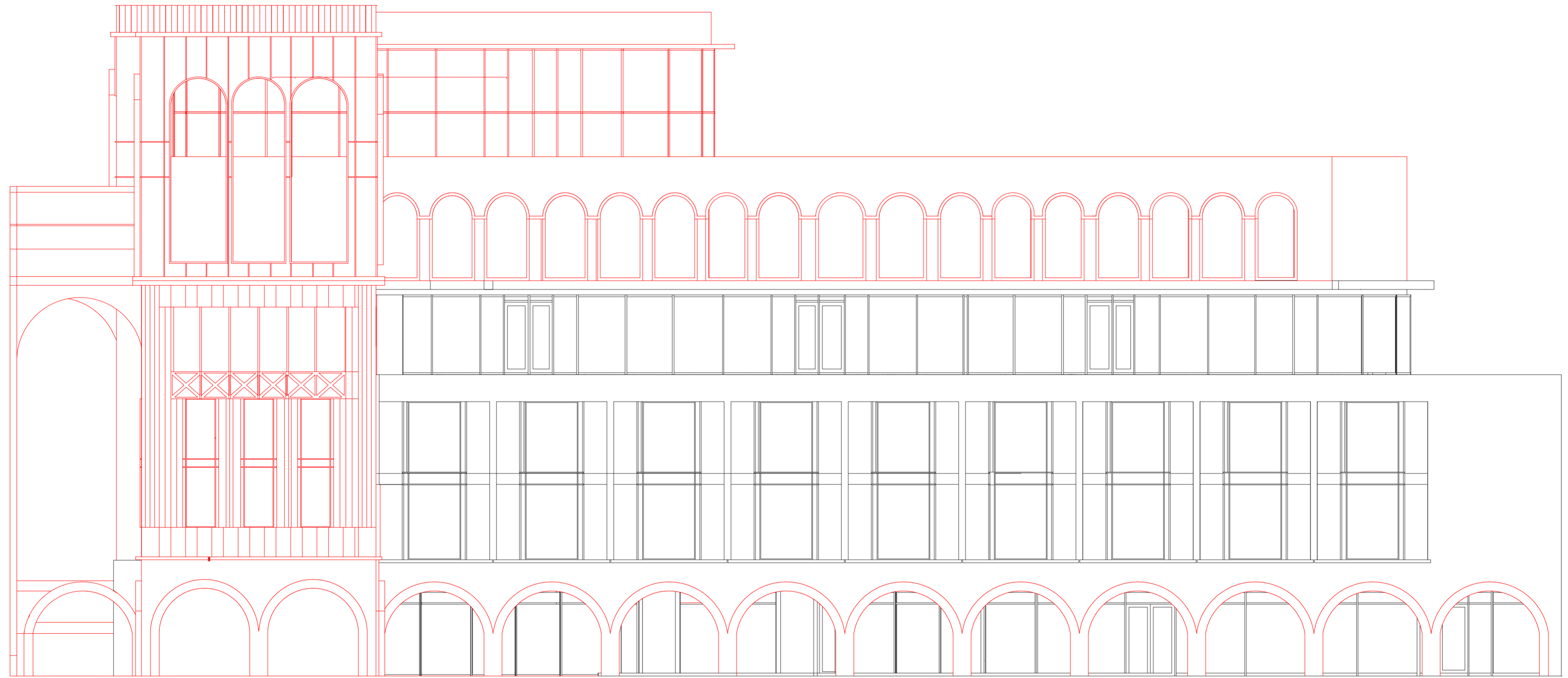
- 360° Rooftop Lounge & Bar**
- 1. Reception - Cloak Room
 - 2. Lounge Area
 - 3. High Tables
 - 4. Bar
 - 5. Dj box
 - 6. Kitchen
 - 7. Toilets for the public
 - 8. Toilets & Changing rooms for staff
 - 9. Disabled Toilets
 - 10. Urban Farm
 - 11. Storage



Proposed Elevation

My Brighton Hotel & Apartments

West Elevation
Scale 1:100

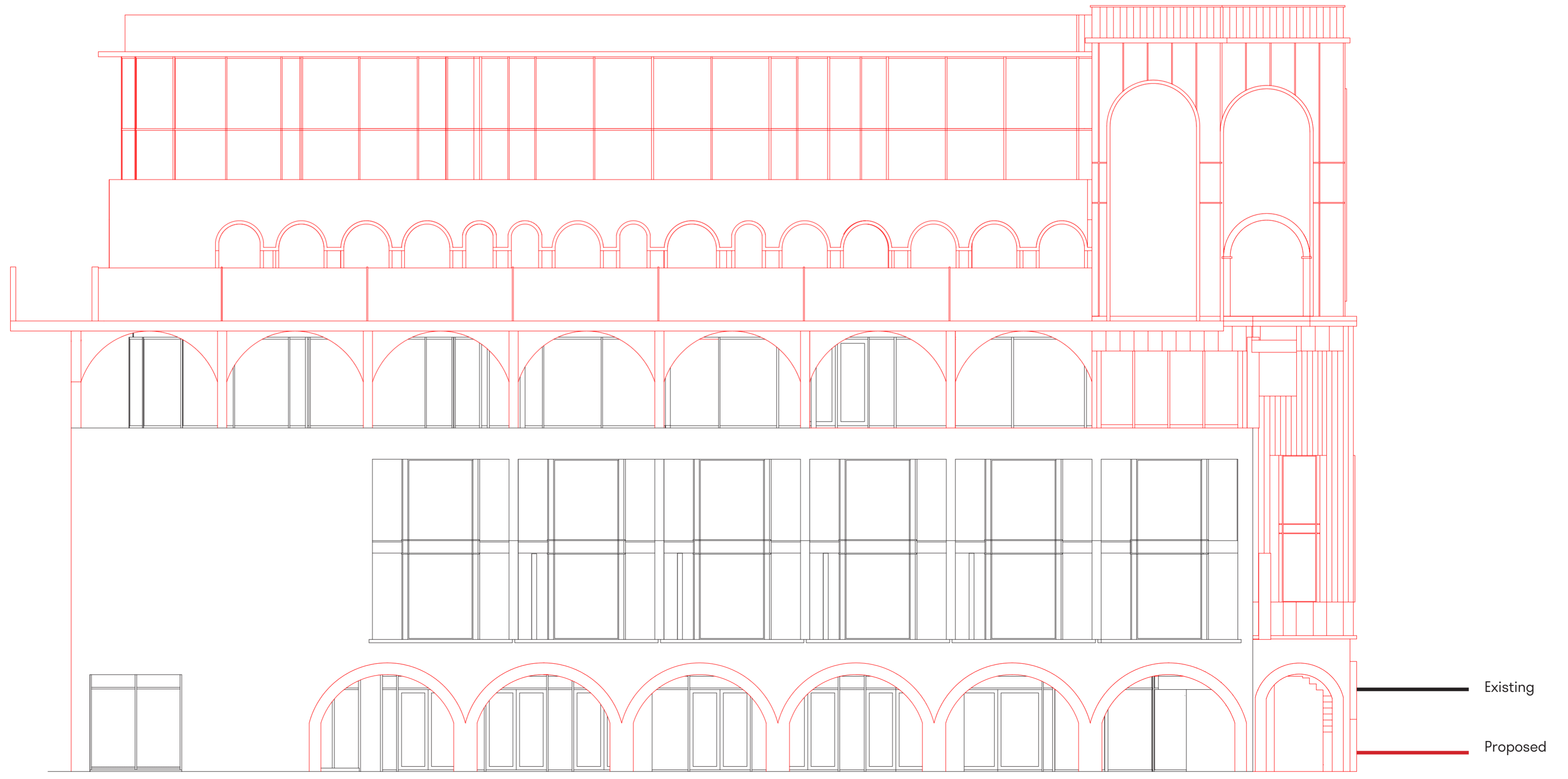


Existing
Proposed

Proposed Elevation

My Brighton Hotel & Apartments

North Elevation
Scale 1:100



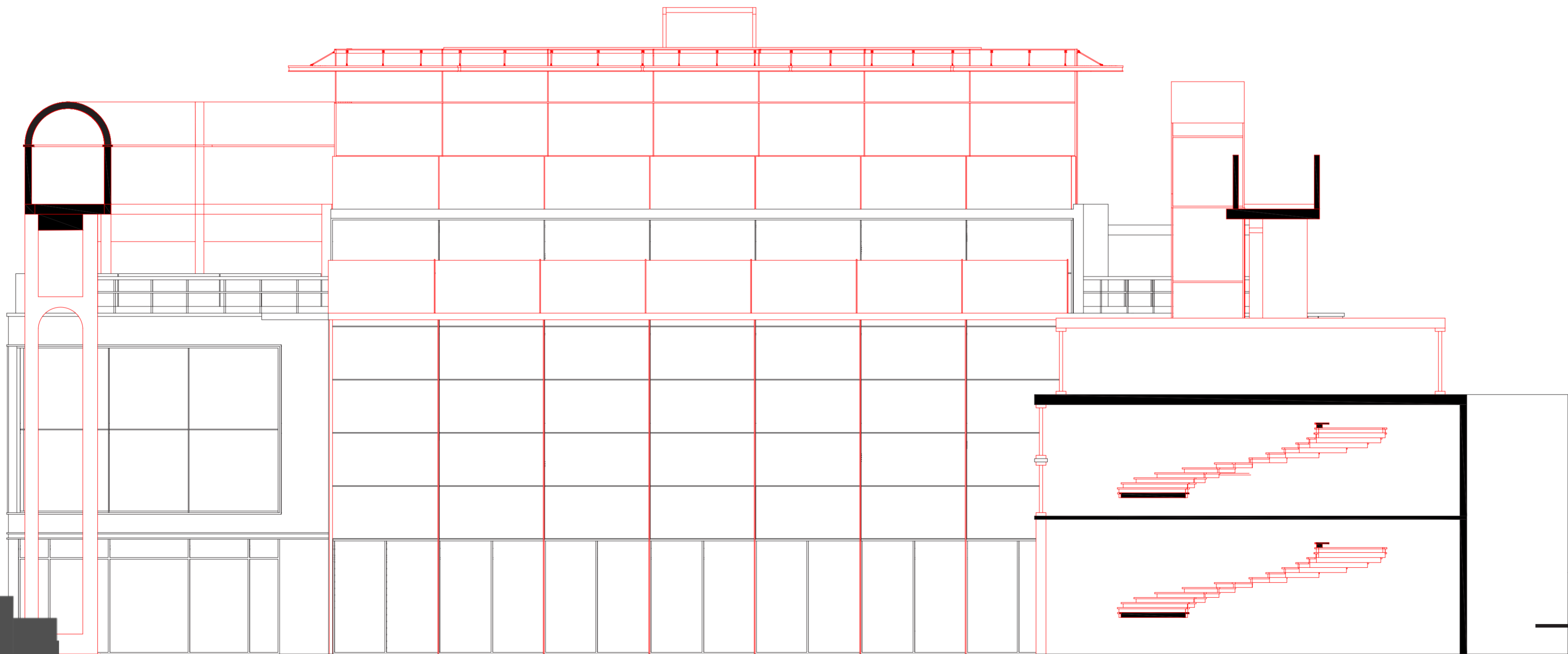
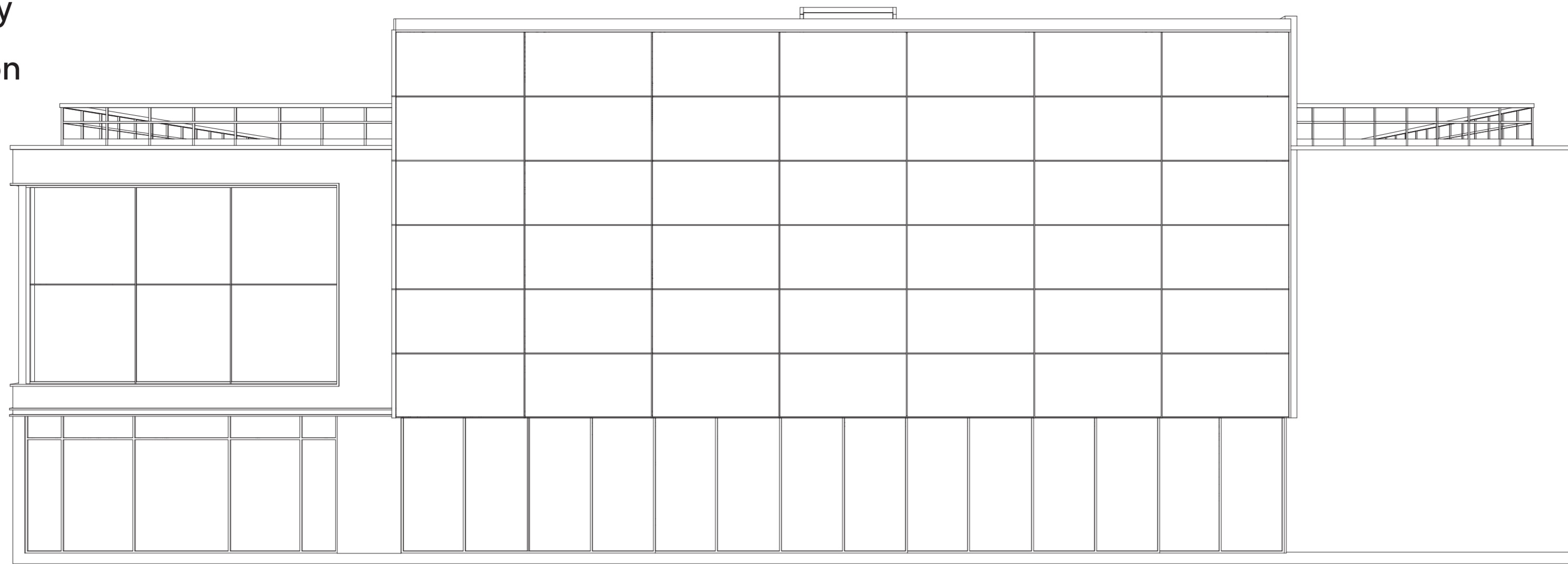
Existing
Proposed

Proposed Section & Elevation

Jubilee Library

South Elevation

Scale 1:100



Existing

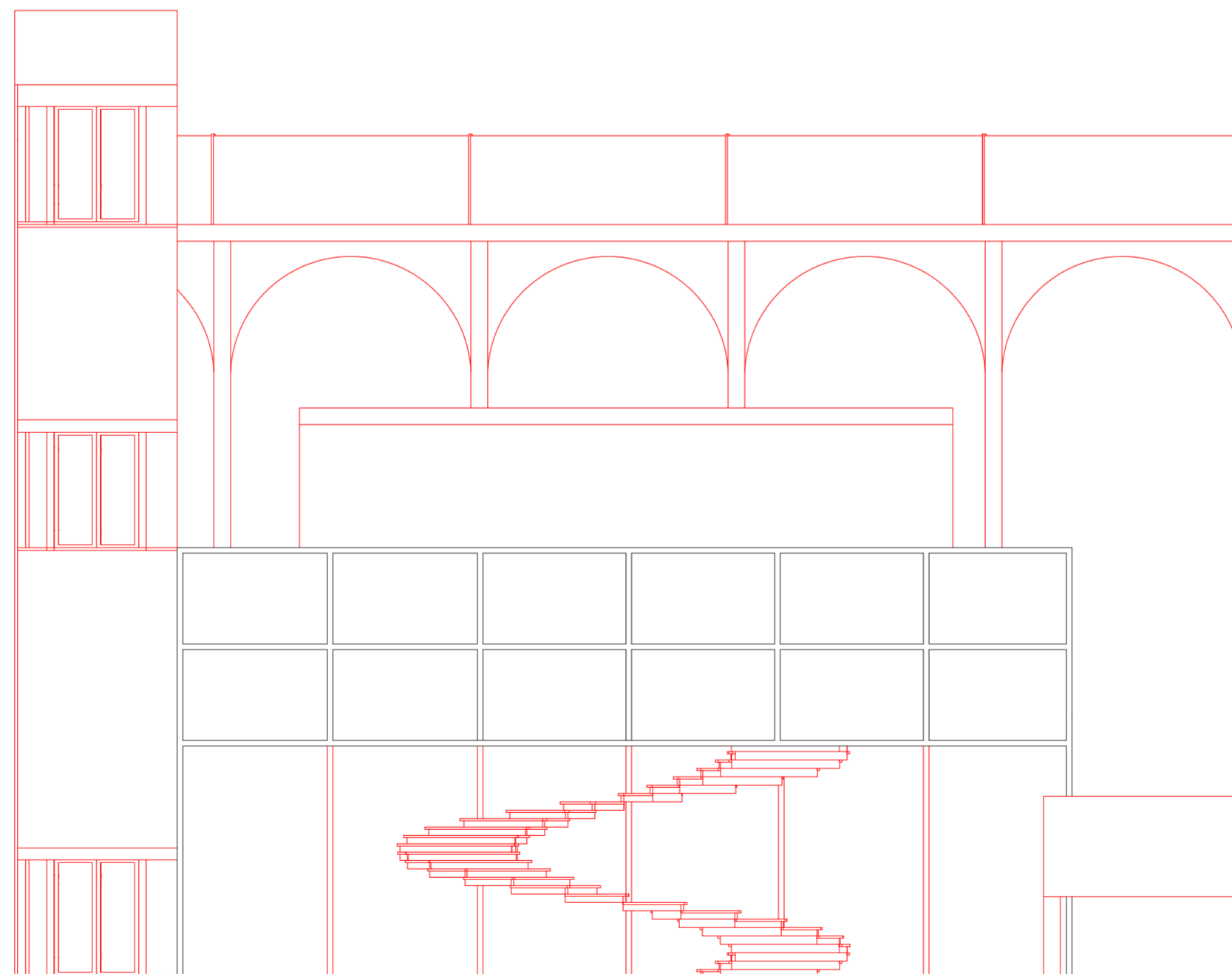
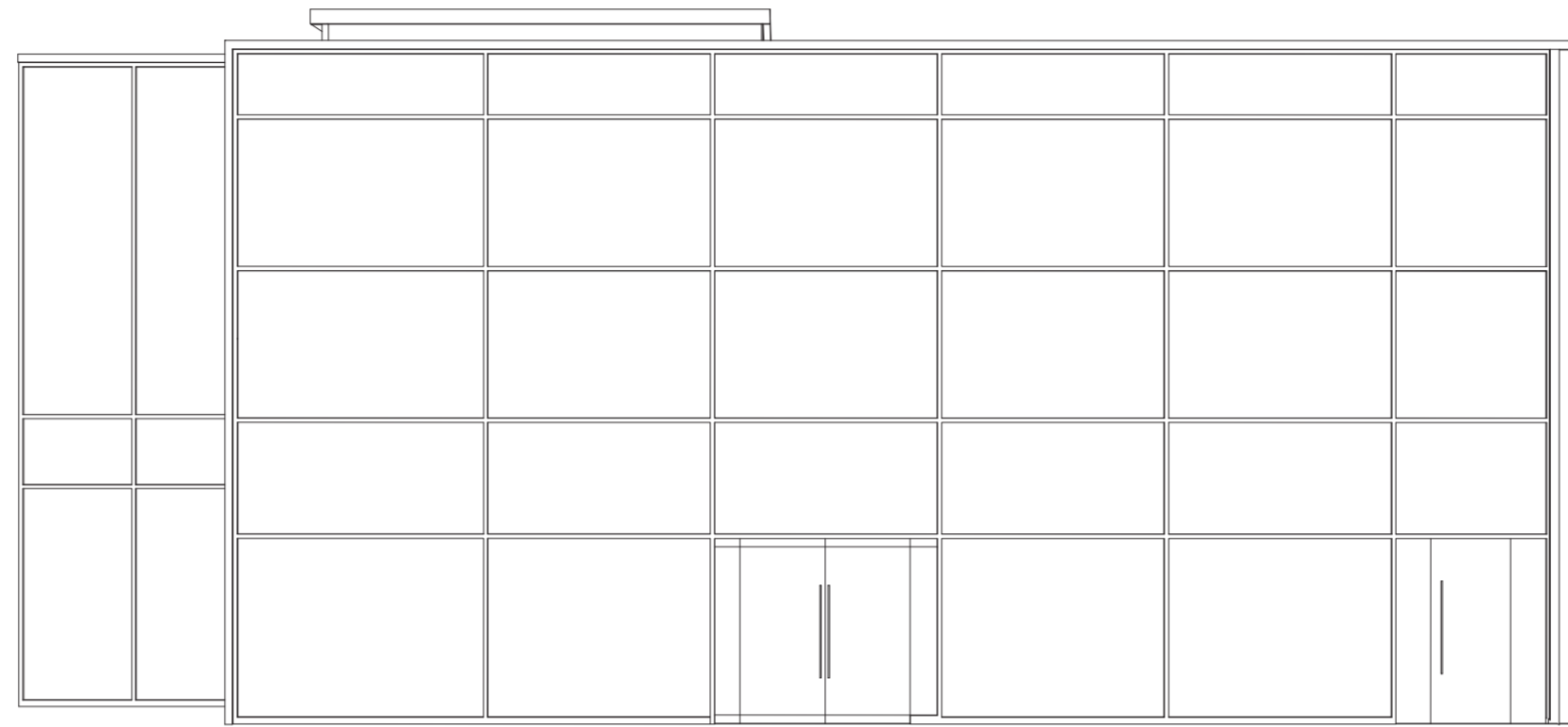
Proposed

Proposed Elevation

Pizza Express -> Exhibition & Observatory space

West Elevation

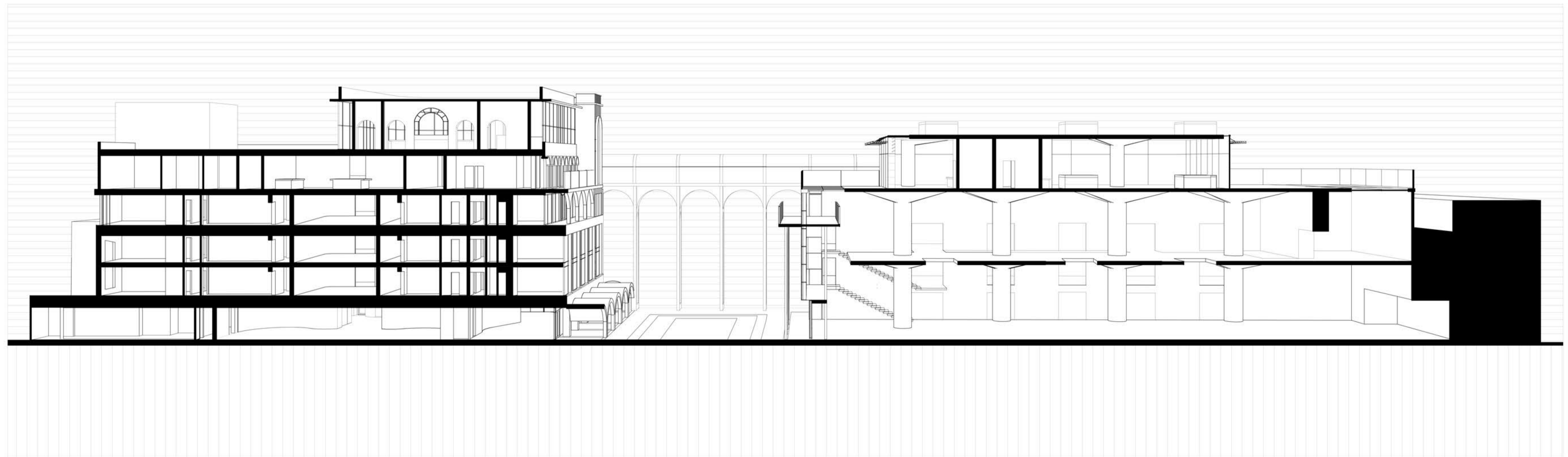
Scale 1:100



Existing
Proposed

Proposed Long Section_Perspective

Scale 1:200



My Brighton Hotel & Apartments

360 Rooftop Bar - Interior view



My Brighton Hotel & Apartments

360 Rooftop Bar - Interior view



Glazed Bridge



My Brighton Hotel & Apartments

West Road View



My Brighton Hotel & Apartments

360 Rooftop Bar - Exterior View _ Urban Rooftop Farm



My Brighton Hotel & Apartments

Roomview towards the Jubilee Library building & the proposed urban farm



Proposed Jubilee Square

The current pavement pattern act as a connection element to the 3 proposed buildings.



My Brighton Hotel & Apartments

North View



My Brighton Hotel & Apartments + Jubilee Library + Exhibition Space

West Road View



Proposed My Brighton Hotel

North Elevation
Scale 1:200



My Brighton Hotel

Extended Restaurant View



Proposed Facade

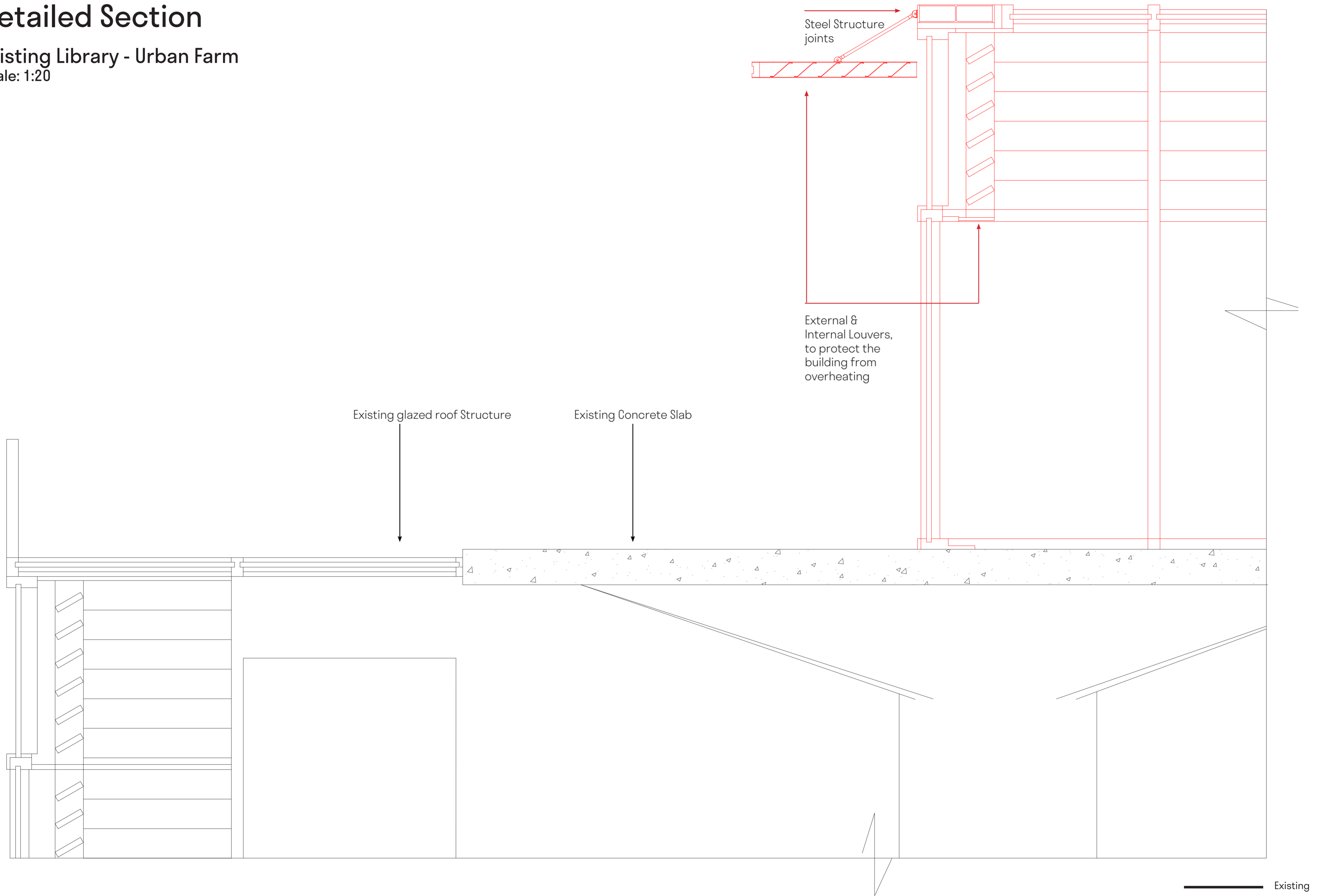
Scale 1:200



Detailed Section

Existing Library - Urban Farm

Scale: 1:20



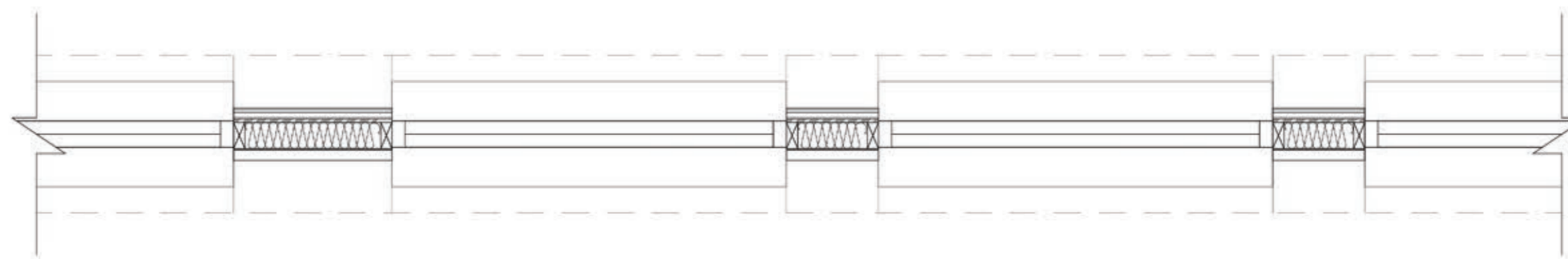
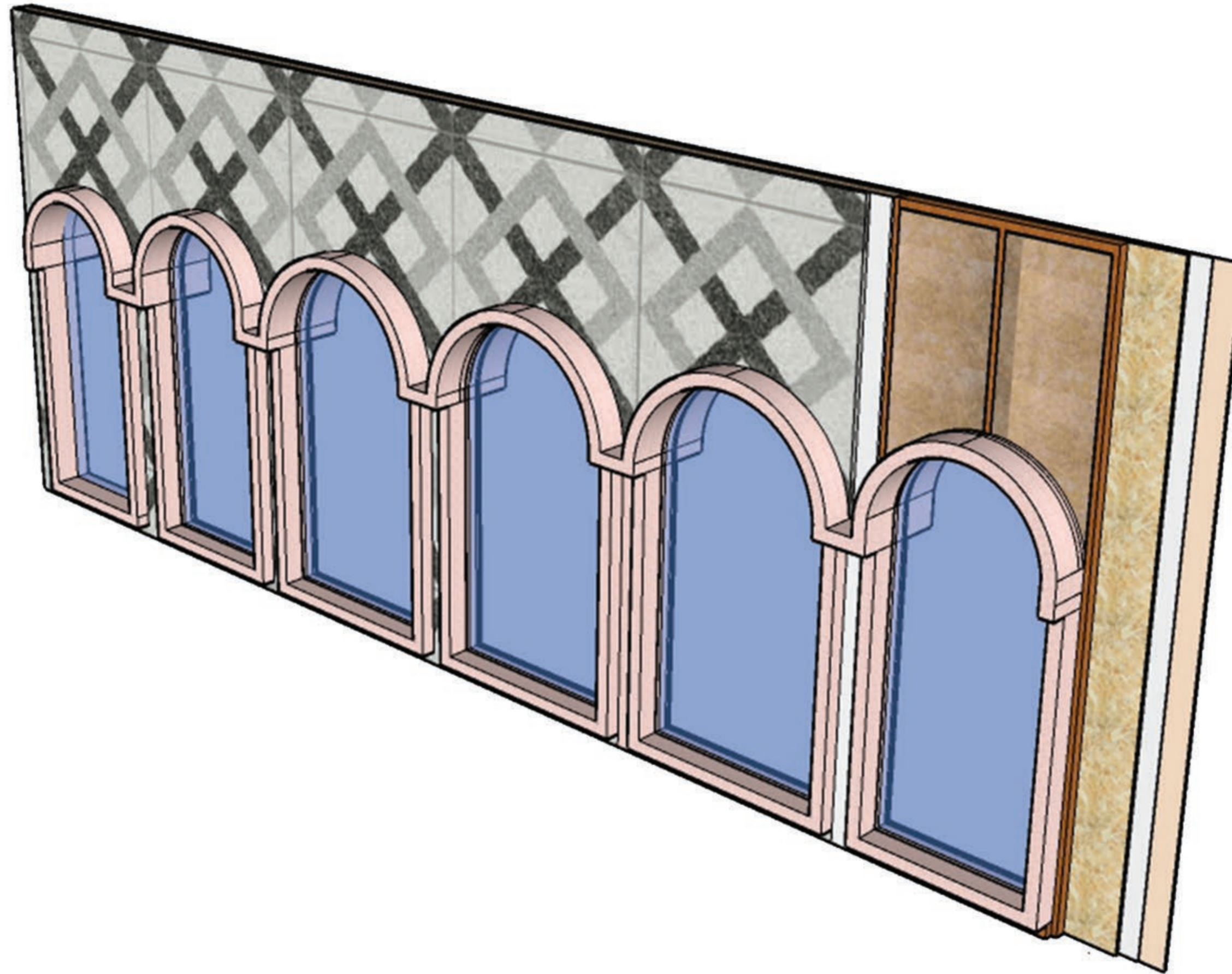
Existing

Proposed

Detailed Plan

Proposed Hotel

Scale: 1:20



- Wall Covering 10mm
- Plasterboard 12.5
- Ventilated Cavity 20mm
- OSB 3 10mm
- Vertical Timber Studs every 450 mm
- Rockwool 100 mm
- Tile Adhesive 10mm
- Terrazzo Tile 50mm