

Piazza Comunale

**Hamsetou Guiebre
2114379**

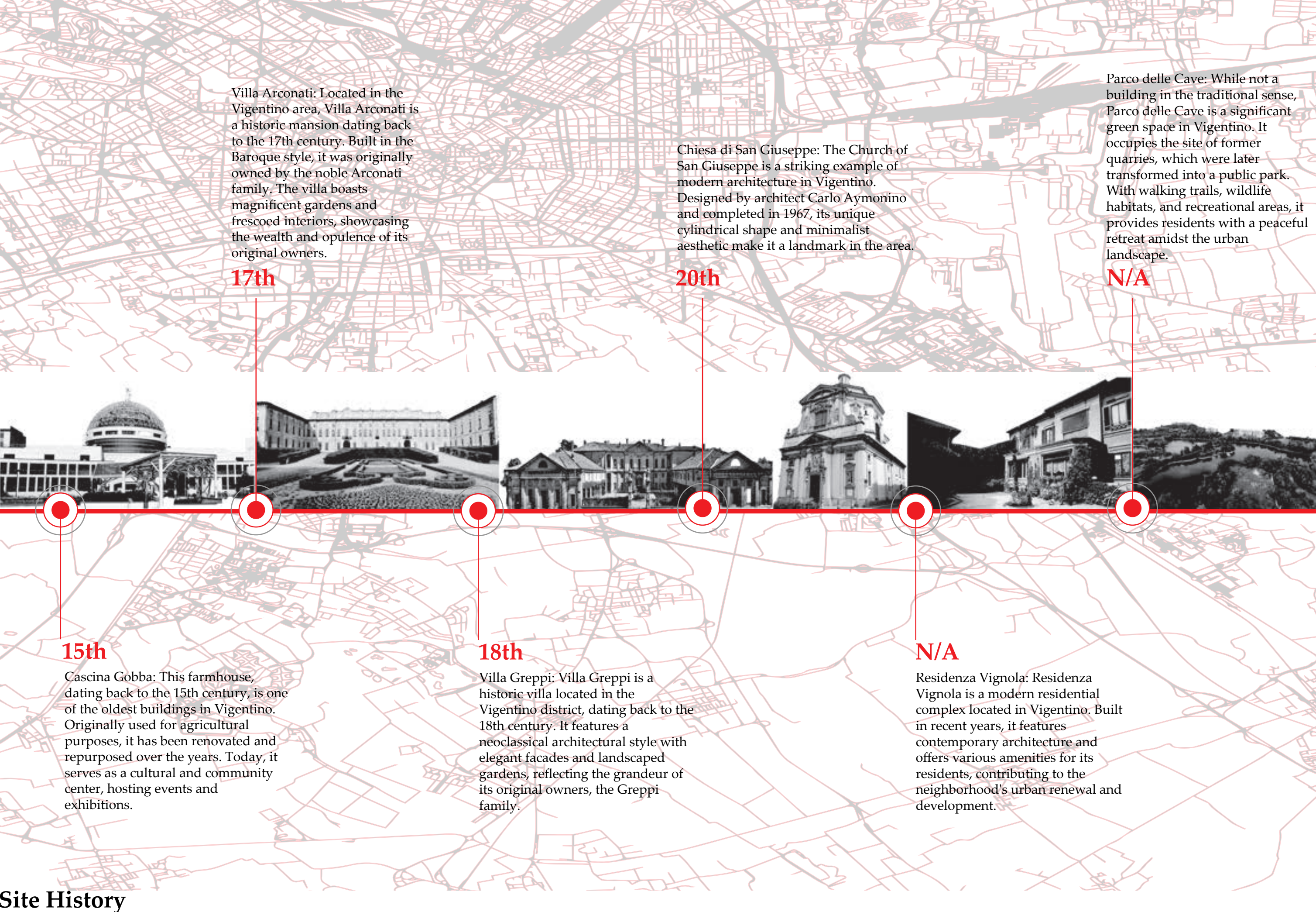
CARC6005: Project 06



VIGENTINO, Milan

Via Orobica, nestled in the vibrant Vigentino district of Milan, is a street pulsating with life and history. Lined with a blend of residential complexes, lush greenery, and bustling commercial spots, it embodies the dynamic spirit of Milan. Whether you're strolling along its charming sidewalks, exploring its hidden gems, or soaking in its rich cultural tapestry, Via Orobica promises an exciting journey through one of Milan's most captivating neighborhoods.





Villa Arconati: Located in the Vigentino area, Villa Arconati is a historic mansion dating back to the 17th century. Built in the Baroque style, it was originally owned by the noble Arconati family. The villa boasts magnificent gardens and frescoed interiors, showcasing the wealth and opulence of its original owners.

17th

Chiesa di San Giuseppe: The Church of San Giuseppe is a striking example of modern architecture in Vigentino. Designed by architect Carlo Aymonino and completed in 1967, its unique cylindrical shape and minimalist aesthetic make it a landmark in the area.

20th

Parco delle Cave: While not a building in the traditional sense, Parco delle Cave is a significant green space in Vigentino. It occupies the site of former quarries, which were later transformed into a public park. With walking trails, wildlife habitats, and recreational areas, it provides residents with a peaceful retreat amidst the urban landscape.

N/A



15th

Cascina Gobba: This farmhouse, dating back to the 15th century, is one of the oldest buildings in Vigentino. Originally used for agricultural purposes, it has been renovated and repurposed over the years. Today, it serves as a cultural and community center, hosting events and exhibitions.



18th

Villa Greppi: Villa Greppi is a historic villa located in the Vigentino district, dating back to the 18th century. It features a neoclassical architectural style with elegant facades and landscaped gardens, reflecting the grandeur of its original owners, the Greppi family.



20th



N/A

Residenza Vignola: Residenza Vignola is a modern residential complex located in Vigentino. Built in recent years, it features contemporary architecture and offers various amenities for its residents, contributing to the neighborhood's urban renewal and development.





Site Overview

1. Residents: Town squares are primarily used by local residents for casual gatherings, socializing, and relaxation. It's a place where people can meet friends, enjoy outdoor activities, or simply spend leisure time.

2. Shoppers: Many town squares are located in proximity to shopping districts. Shoppers may use the square as a place to rest, meet up with others, or participate in events organized by local businesses.

3. Tourists: Town squares are often tourist attractions, drawing visitors who want to experience the local culture, architecture, and atmosphere. Tourists might explore the area, take photographs, and enjoy the surroundings.

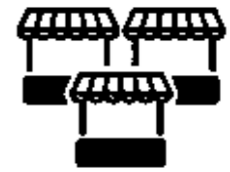
4. Street Performers: Town squares can be a stage for street performers, including musicians, artists, and entertainers. This adds to the vibrant atmosphere and provides entertainment for passersby.

5. Market Vendors: Some town squares host markets or fairs, attracting vendors and shoppers alike. These events can be regular occurrences or special occasions.

6. Cultural and Community Events: Town squares are popular venues for community events, festivals, parades, and cultural celebrations. These events bring people together for shared experiences.

7. Political and Social Activists: Town squares may also be gathering places for political or social activism, with individuals or groups using the space to express their views or organize rallies.

9. Children and Families: Town squares often have play areas or spaces for families to gather. Children can play, and families can enjoy picnics or other outdoor activities.



Residents



Shoppers



Tourists



Street Performers



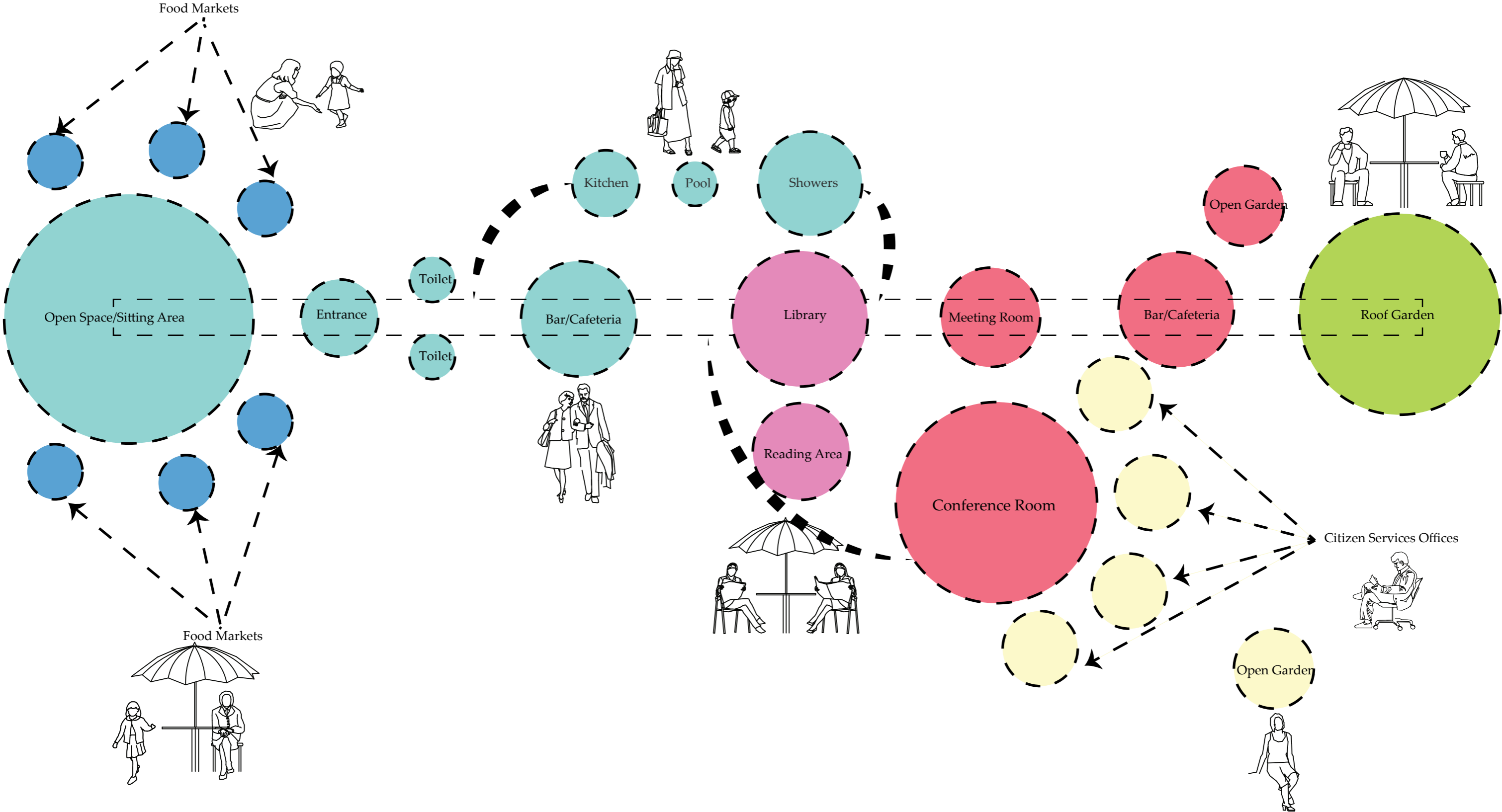
Market Vendors



Children & Families

Town Square Proposal

Town Square Proposal



Brief Detail: Programme



Brief Collage

Location: Sukhumvit 101 Road, Bangkok, Thailand

Category: Residential

Design Period: 2016

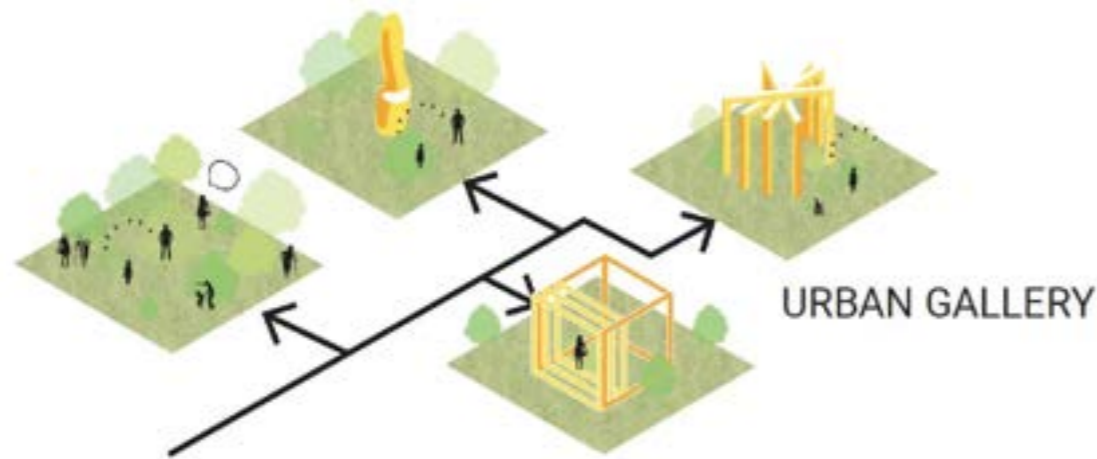
Completion Year: 2020

Site Area: 2.7 Rai

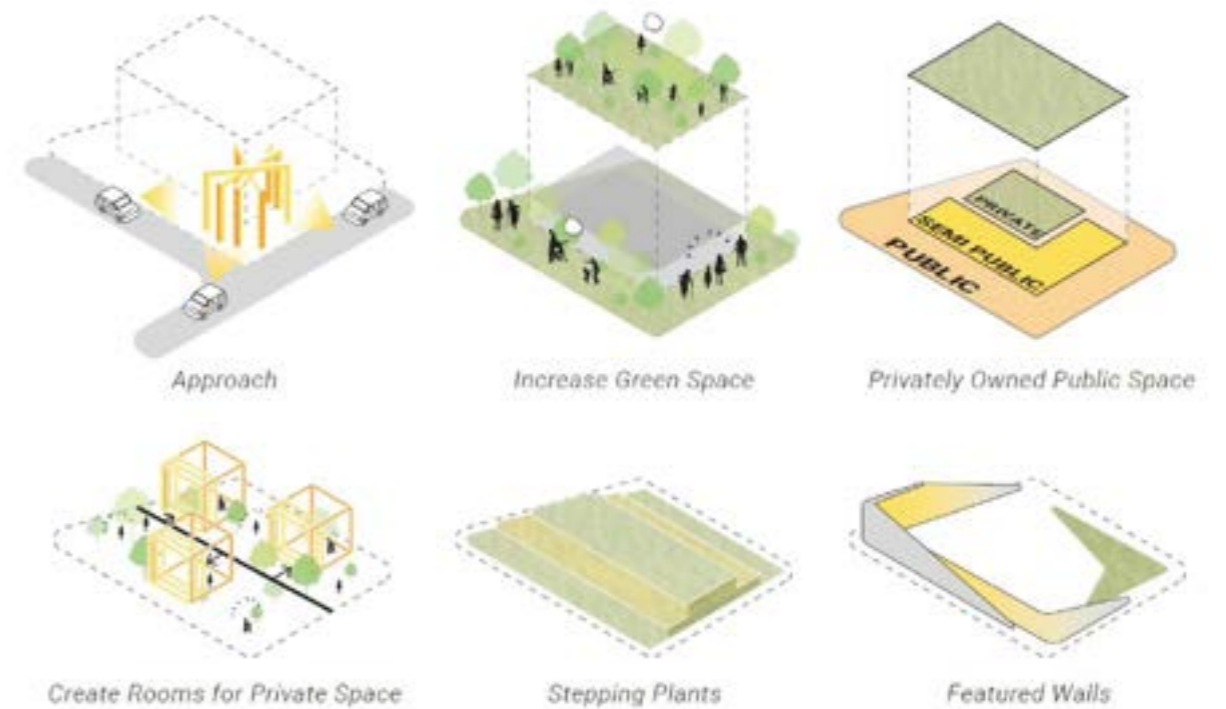
Client: MBK Real Estate

Architect: Somdoon Architects

Quinn Sukhumvit 101, an upscale high-rise condominium situated along Sukhumvit 101 road in close proximity to the Punnawithi BTS Skytrain Station, embodies the concept of an Urban Gallery. Central to this development is the theme of a "Green area with urban life appreciation," where the essence of urban living is seamlessly integrated into the surrounding landscape.



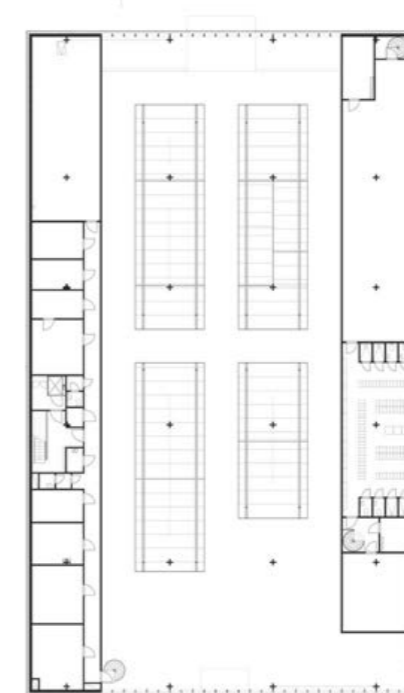
This luxury residence seeks to redefine the living experience by intricately weaving all aspects of daily life into its meticulously designed outdoor spaces. Quinn Sukhumvit 101 serves as a harmonious blend of indoor and outdoor living, ensuring that residents can fully immerse themselves in the quality of their living environment. Upon entering the site, individuals are greeted with an immediate connection to the purity of nature, enhancing their overall living experience.



Precedents: Quinn Sukhumvit 101



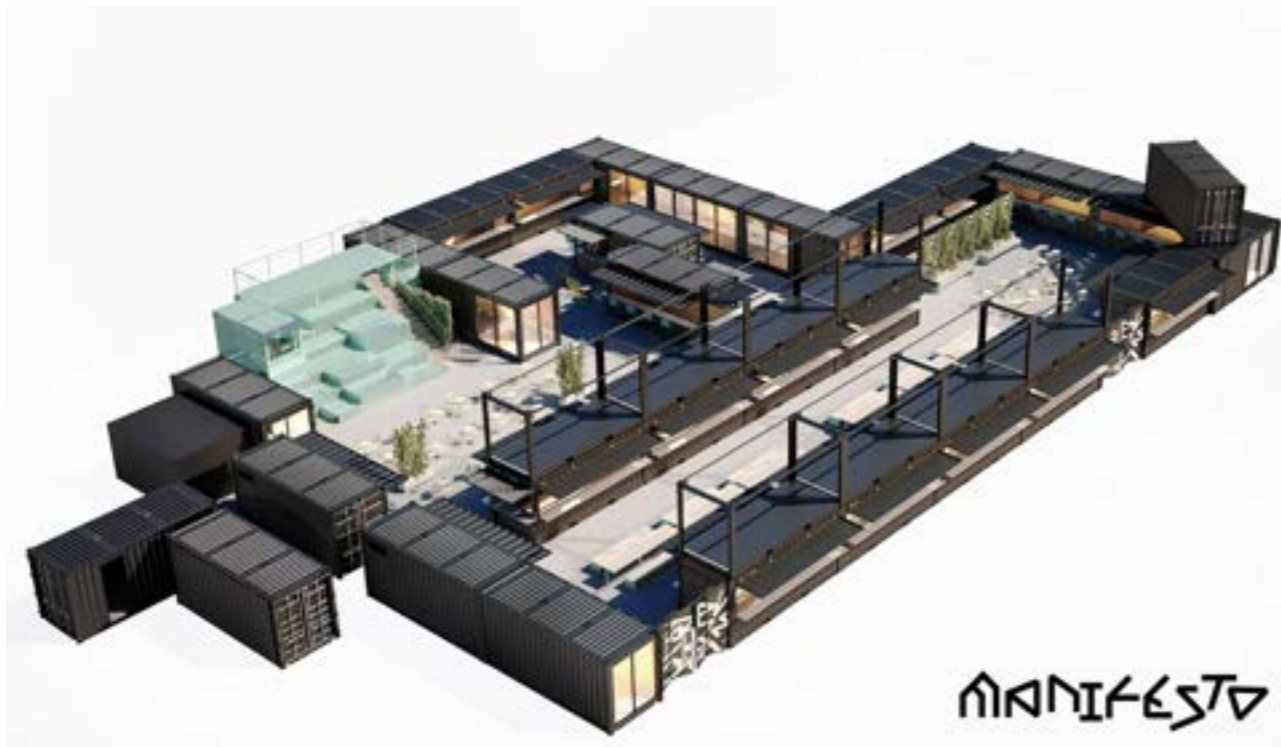
The temporary Market Hall emerged as a solution to accommodate vendors displaced by ongoing renovations at the old Market Hall, currently undergoing refurbishment led by Tengbom. In a strategic move, architects opted to construct the makeshift food market on Östermalm's Square, a bustling thoroughfare that once housed the original Market Hall until municipal authorities mandated its relocation in 1888. Despite the initial circumstance of limited alternative spaces, the decision to situate the pop-up Market Hall in the square has proven serendipitous. Far from merely filling a void, this placement has revitalized the area, breathing new life into the surroundings and significantly enhancing the visibility of the market vendors.



Precedents: Market Hall



Manifesto distinguishes itself from conventional marketplaces or food halls. Nestled in a thoughtfully crafted and cozy setting in Prague, this unique establishment, rather than adhering to traditional norms, brings the culinary delights of upscale restaurants to the public at street food prices. Beyond merely offering delectable dishes, Manifesto enriches the experience by presenting a daily program featuring top local DJs, live music, performances, summer cinema, and classes. The allure lies not only in the gastronomic offerings but also in the opportunity for visitors to immerse themselves in a cultural experience, all of which is complimentary.



Precedents: Manifesto



Piazza del Popolo is the heart of Cesena, my hometown in Italy, buzzing with life and history. The centerpiece is the stunning Fontana del Masini, a beautiful Baroque fountain crafted by Francesco Masini in the 1600s.

The square is surrounded by elegant buildings, some dating back to the Renaissance and Baroque eras, now housing cozy cafes, shops, and eateries. Whether you're sipping espresso at a café or admiring the architecture, Piazza del Popolo captures the essence of Cesena's charm and culture. Piazza del Popolo also serves as a venue for various events and festivals, ranging from cultural performances to markets and celebrations. It's a favorite gathering spot for locals and visitors alike.

The market in Piazza del Popolo is a vibrant affair, adding to the square's lively atmosphere. It's a place where locals gather to shop for fresh produce, artisanal goods, clothing, and more.

Stalls line the square, offering a colorful array of fruits, vegetables, cheeses, meats, and other culinary delights. You'll also find vendors selling handmade crafts, souvenirs, and traditional Italian products. In here you can also find the Town Hall, where citizens can benefit by the services offered.'

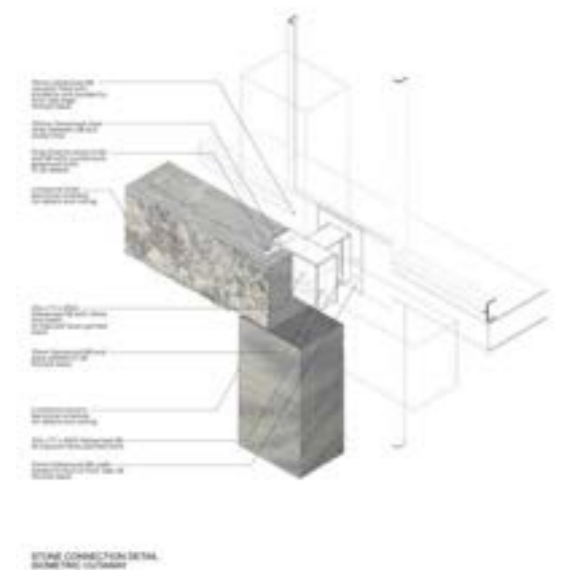
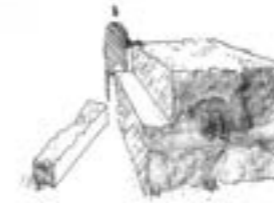
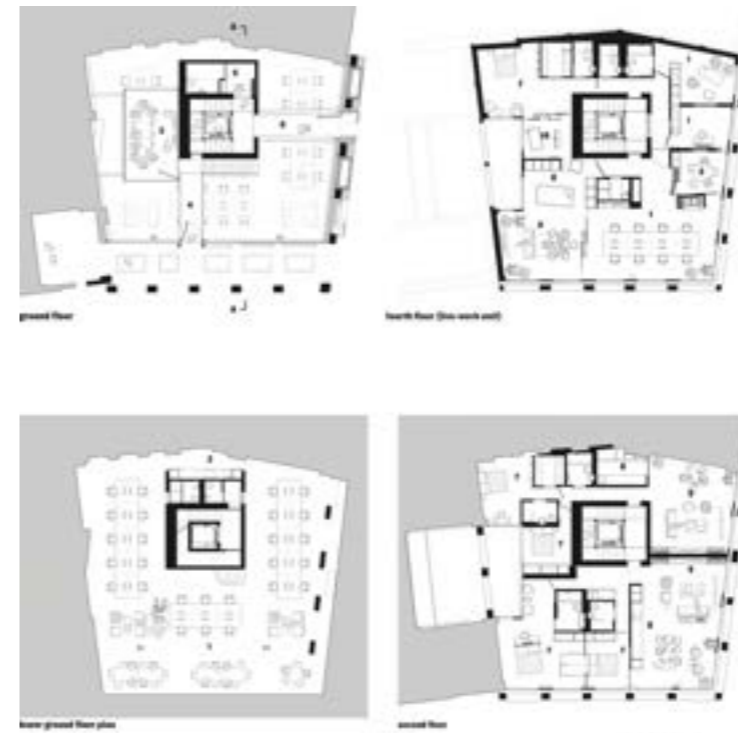
The market is not only a place to shop but also a social hub where neighbors catch up, exchange news, and enjoy the hustle and bustle of the lively scene. It's an integral part of daily life in Cesena, providing a taste of local culture and tradition amidst the stunning backdrop of Piazza del Popolo.



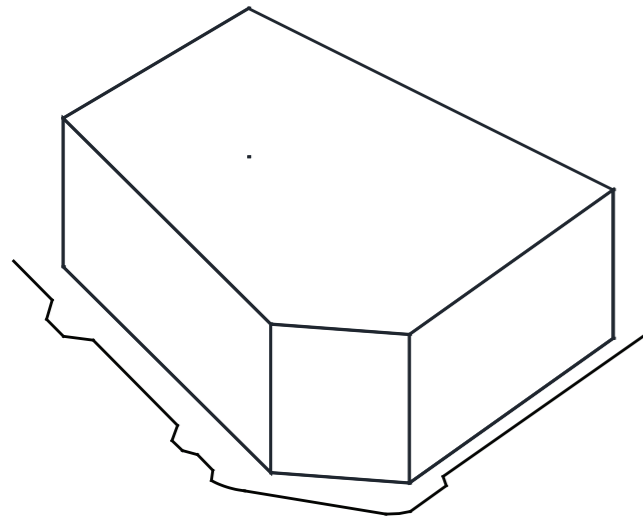
Precedents: Cesena - Piazza del Popolo

15 Clerkenwell Close in London, designed by Groupwork and Amin Taha Architects, stands out with its unique exposed limestone façade. Finished in 2017, the building is both a residential and office space. Its limestone, sourced from a French quarry, is unpolished and full of visible fossils, giving the building a raw and natural look that contrasts with its surroundings. This exoskeleton blocks part of the building's load-bearing structure, reducing the need for additional internal support systems.

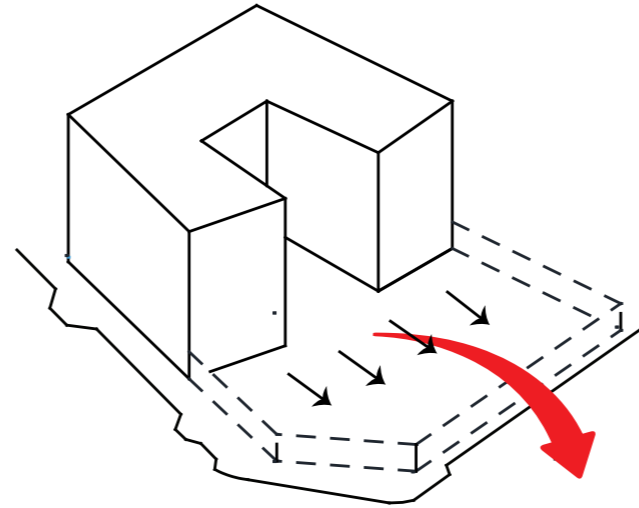
The building attracted attention because local authorities initially wanted it demolished, claiming it didn't match the approved plans, as the stone exoskeleton surrounding the building was not accurately represented. However, many in the architectural community praised its design. In 2019, the demolition order was overturned, allowing 15 Clerkenwell Close to remain a notable example of innovative and thoughtful architecture.



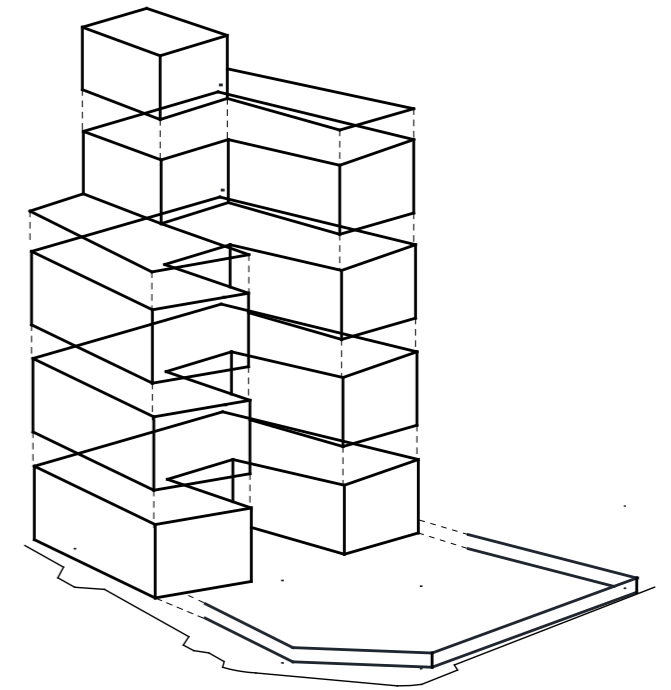
Precedents: 15 Clerkenwell Close, London



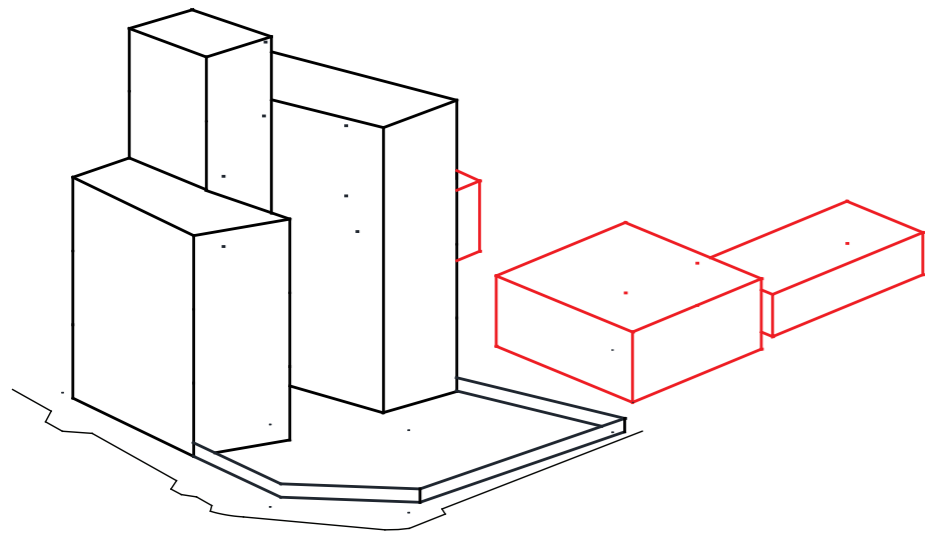
Building Envelope
Initial design, shape of the building



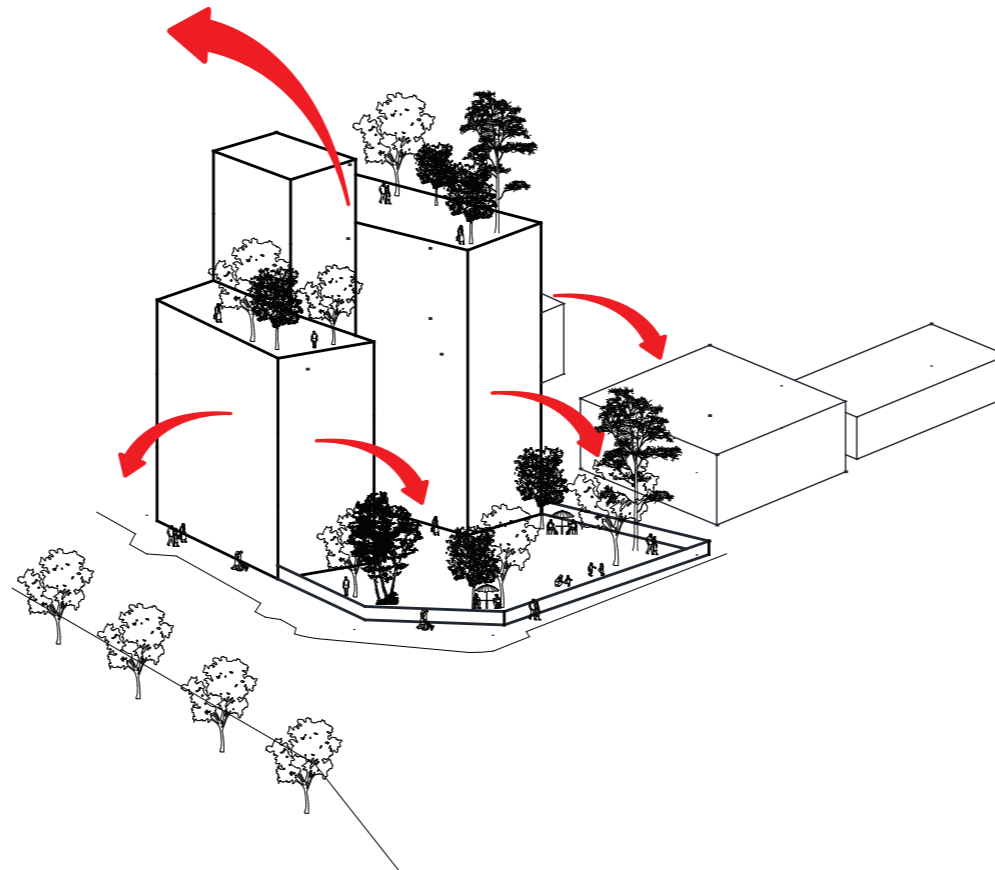
Transparency & Accessibility
Expansion of the space for a fluid circulation and accessibility across the property lines



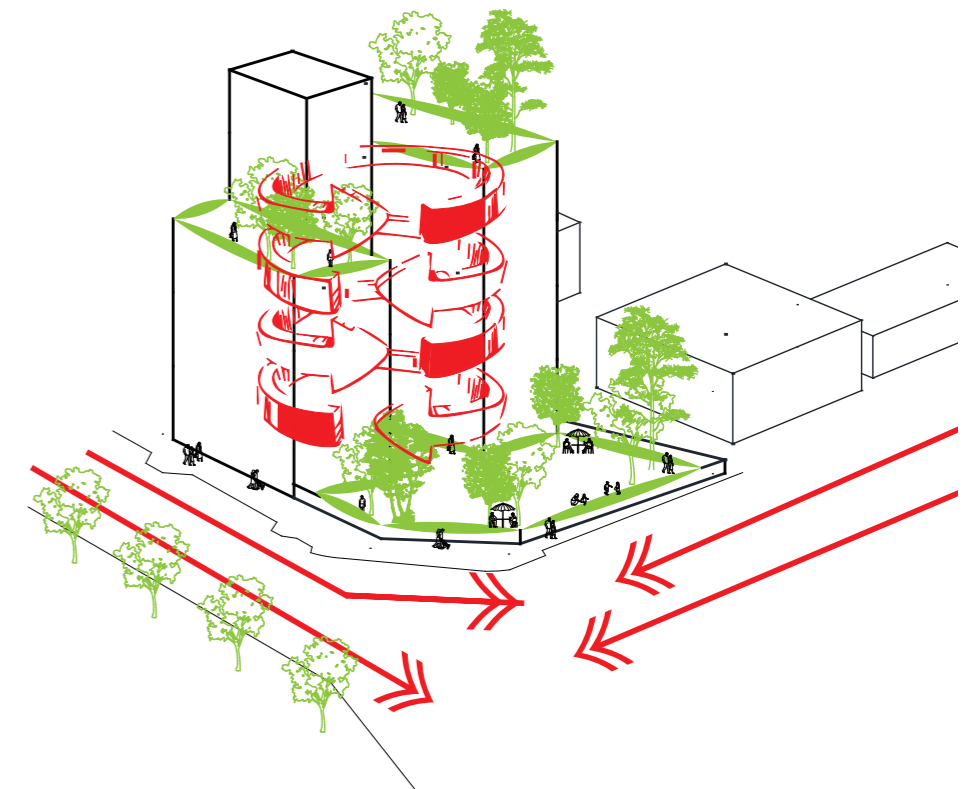
Separation & Relief
Levels separation and maximisation of the space for occupiable space at the site boundaries



Context
Aspects of the massing are rearranged to give or maintains view to immediate context

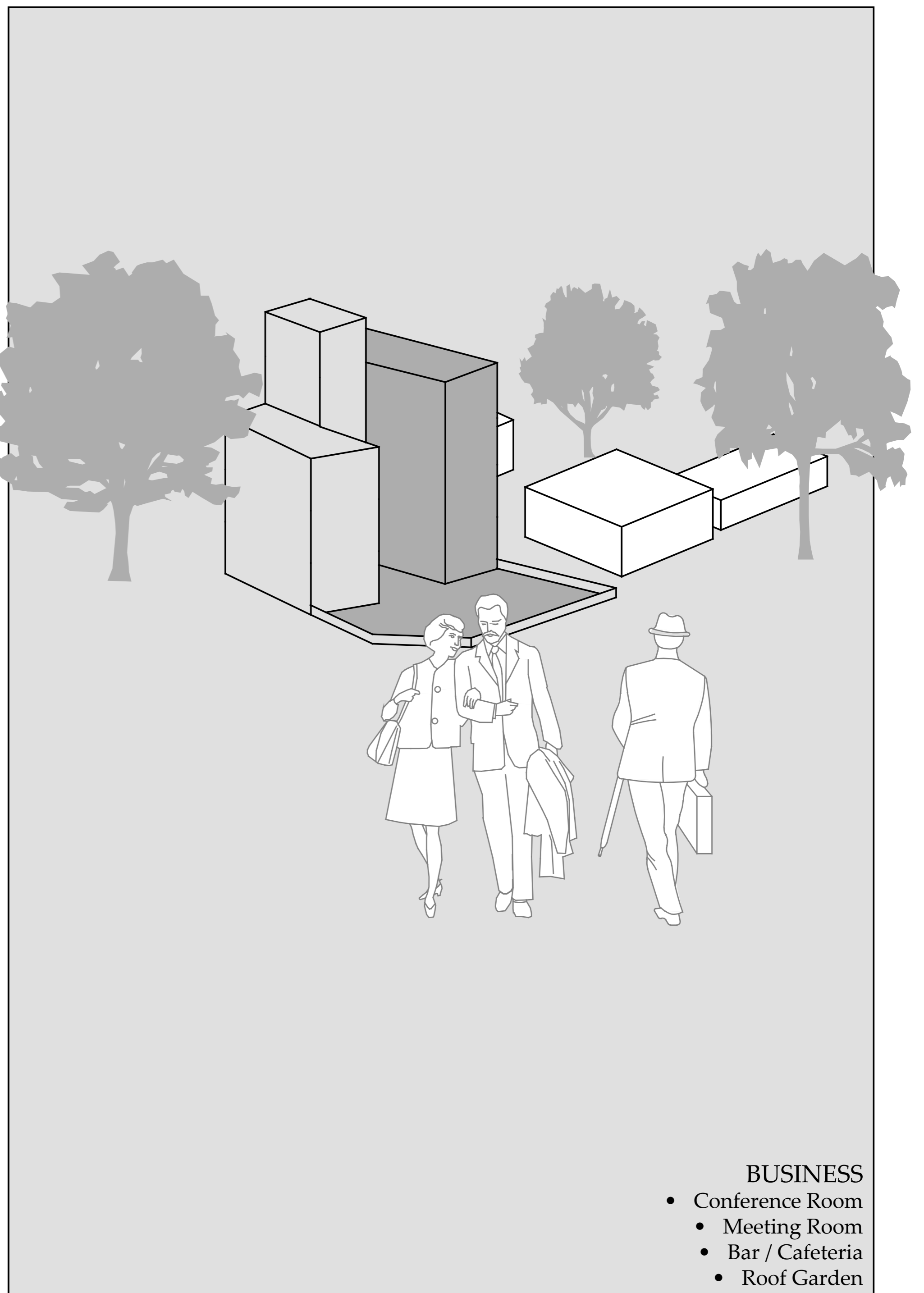
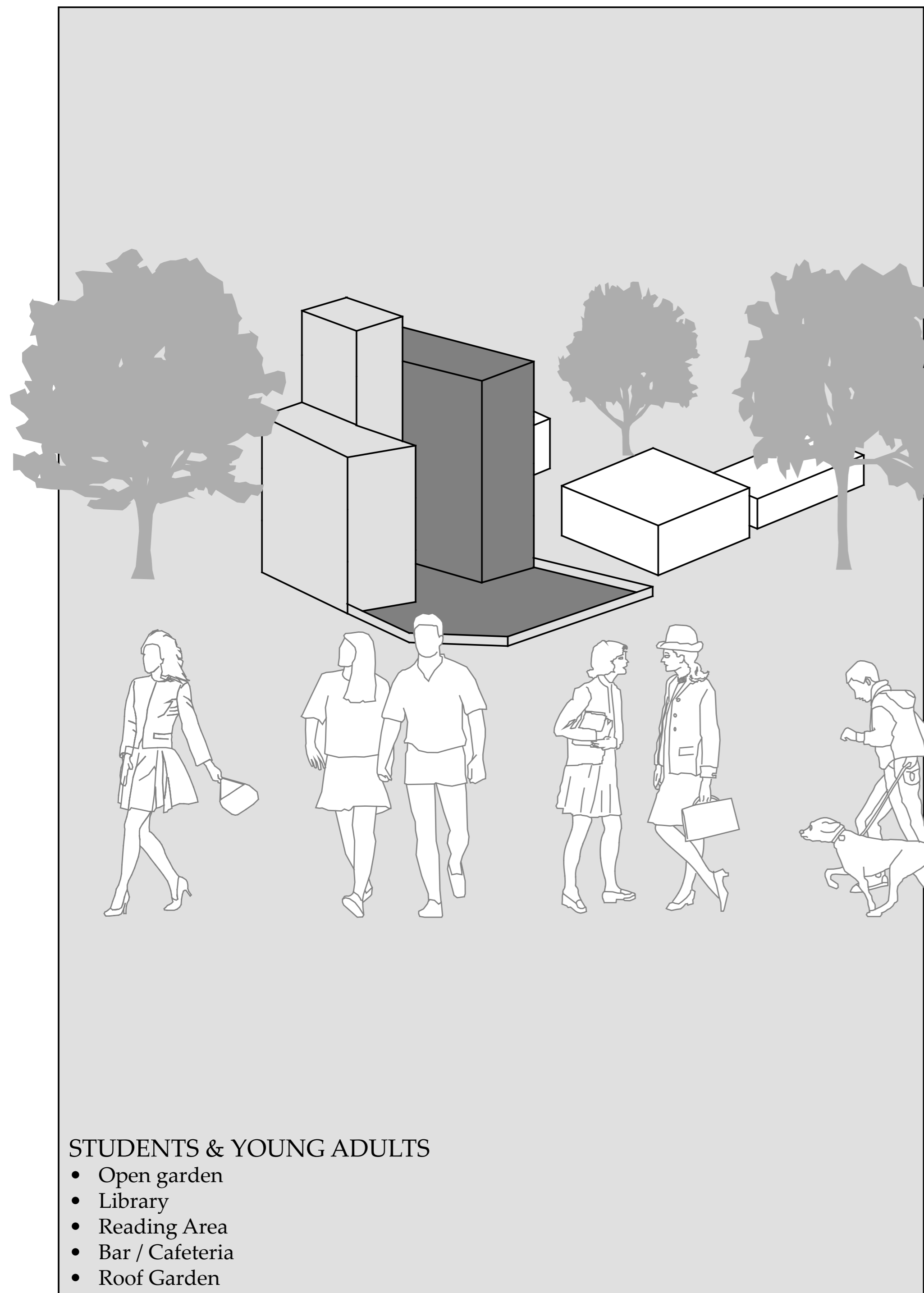
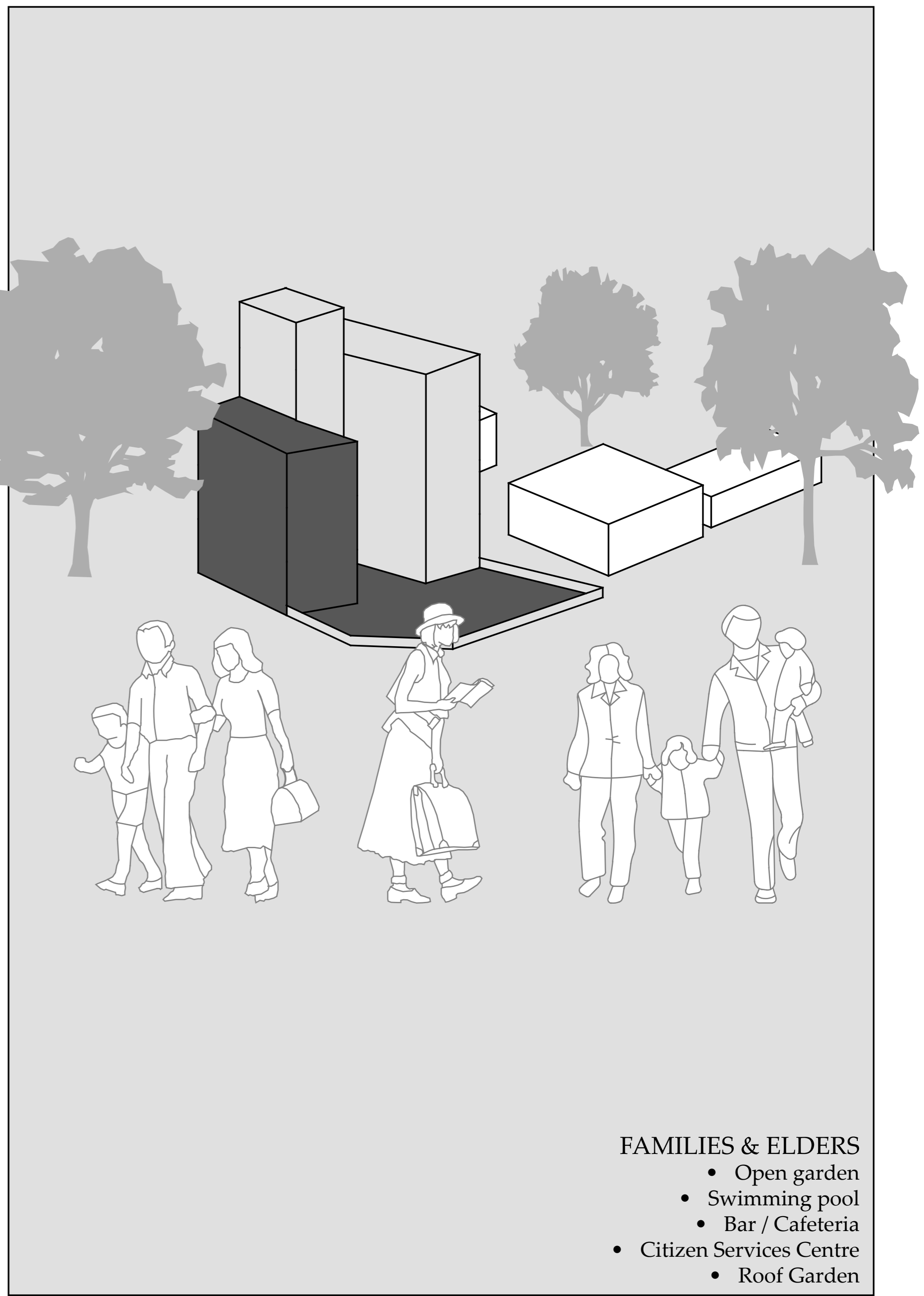
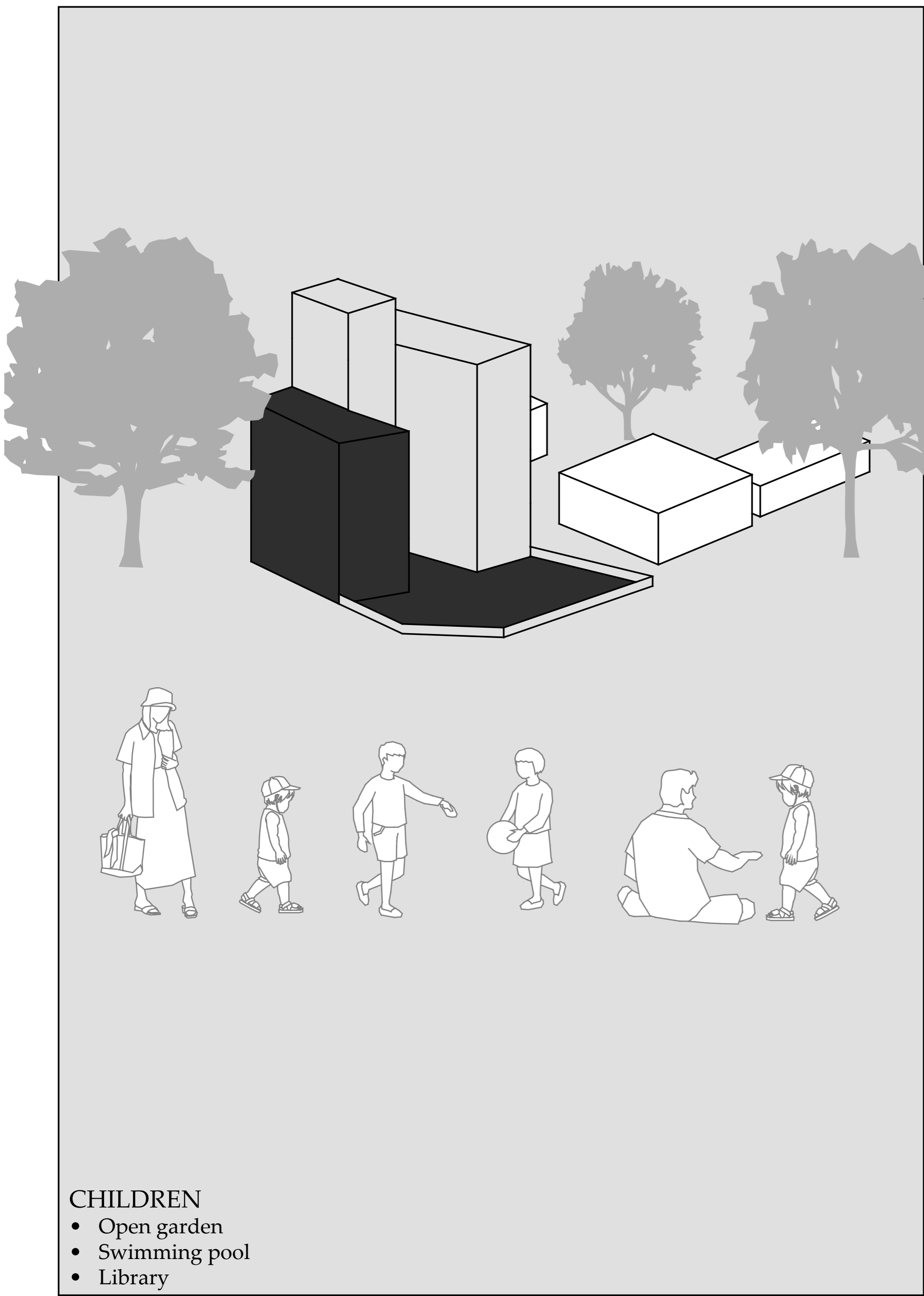


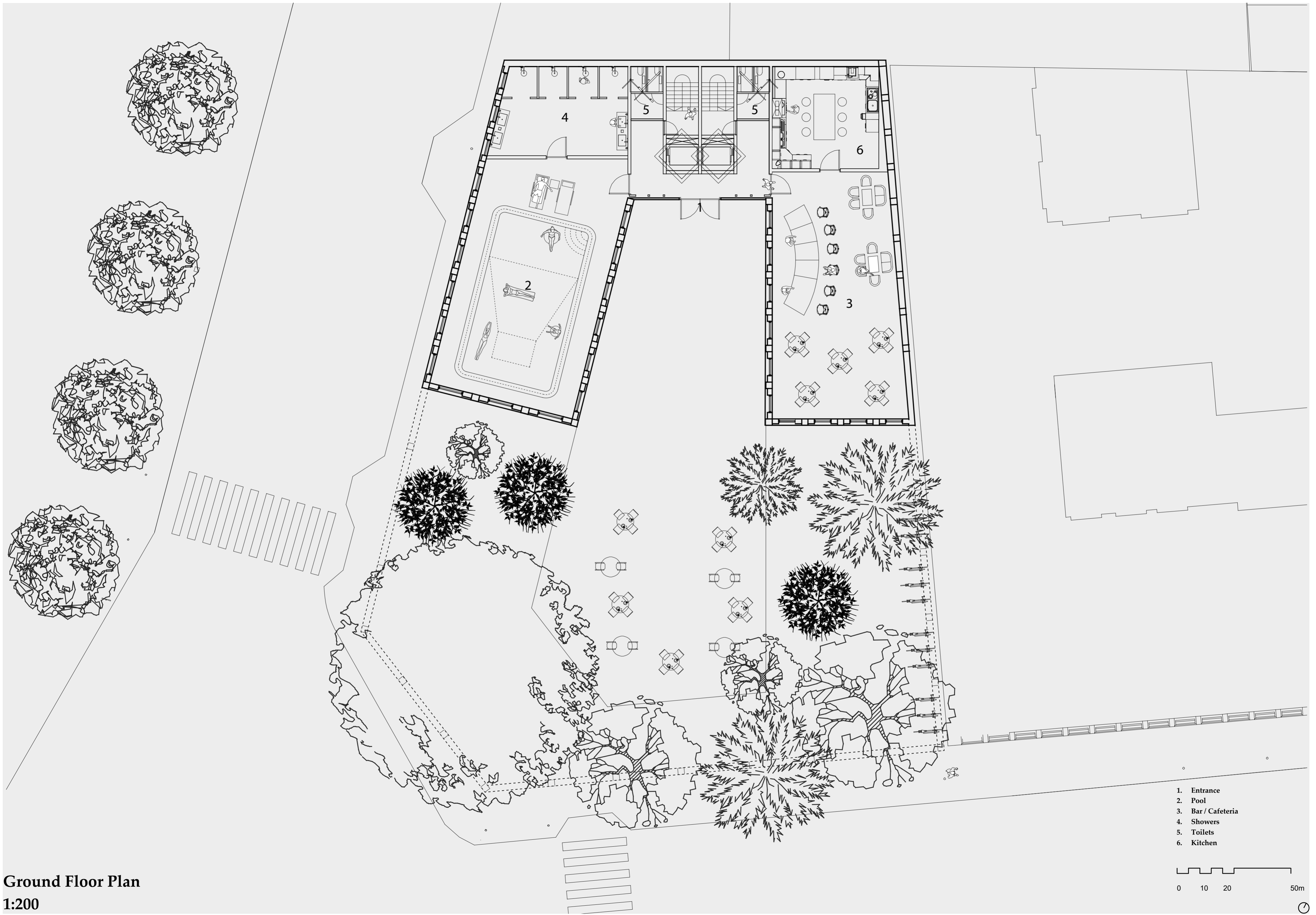
Orientation & Visibility
Roof gardens at the top levels and windows all over the the levels allow building occupants to orient themselves in the city and promote continuous eyes on the streets



Activity & Access
Street trees serve as a way to bring environmental awareness to the pedestrians, meanwhile communcational garden and roof gardens system help to make a sustainable yet aesthetic space

Massing Strategy

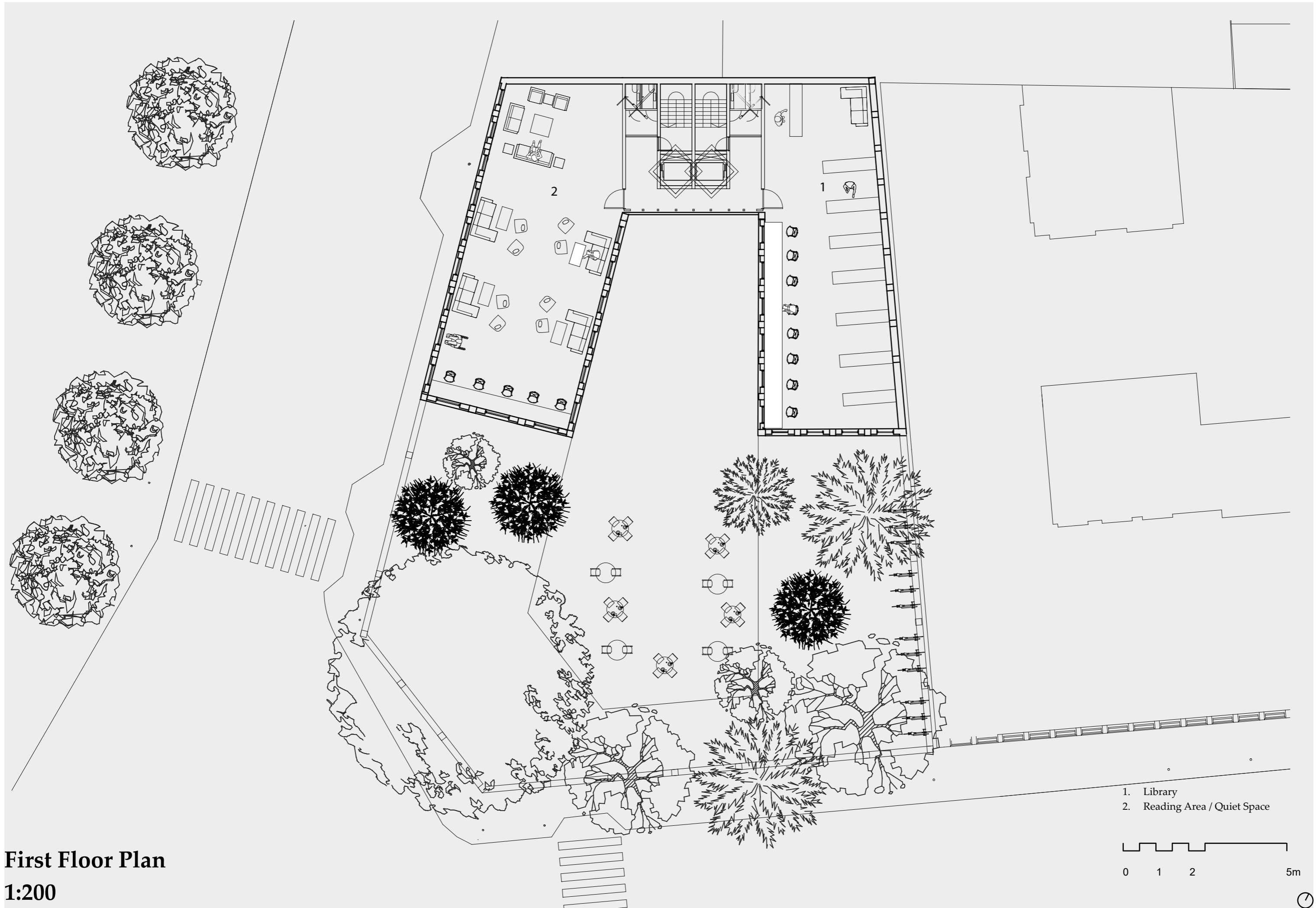




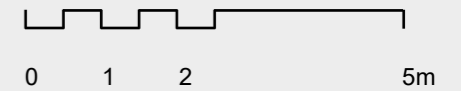
Ground Floor Plan
1:200

- 1. Entrance
- 2. Pool
- 3. Bar / Cafeteria
- 4. Showers
- 5. Toilets
- 6. Kitchen



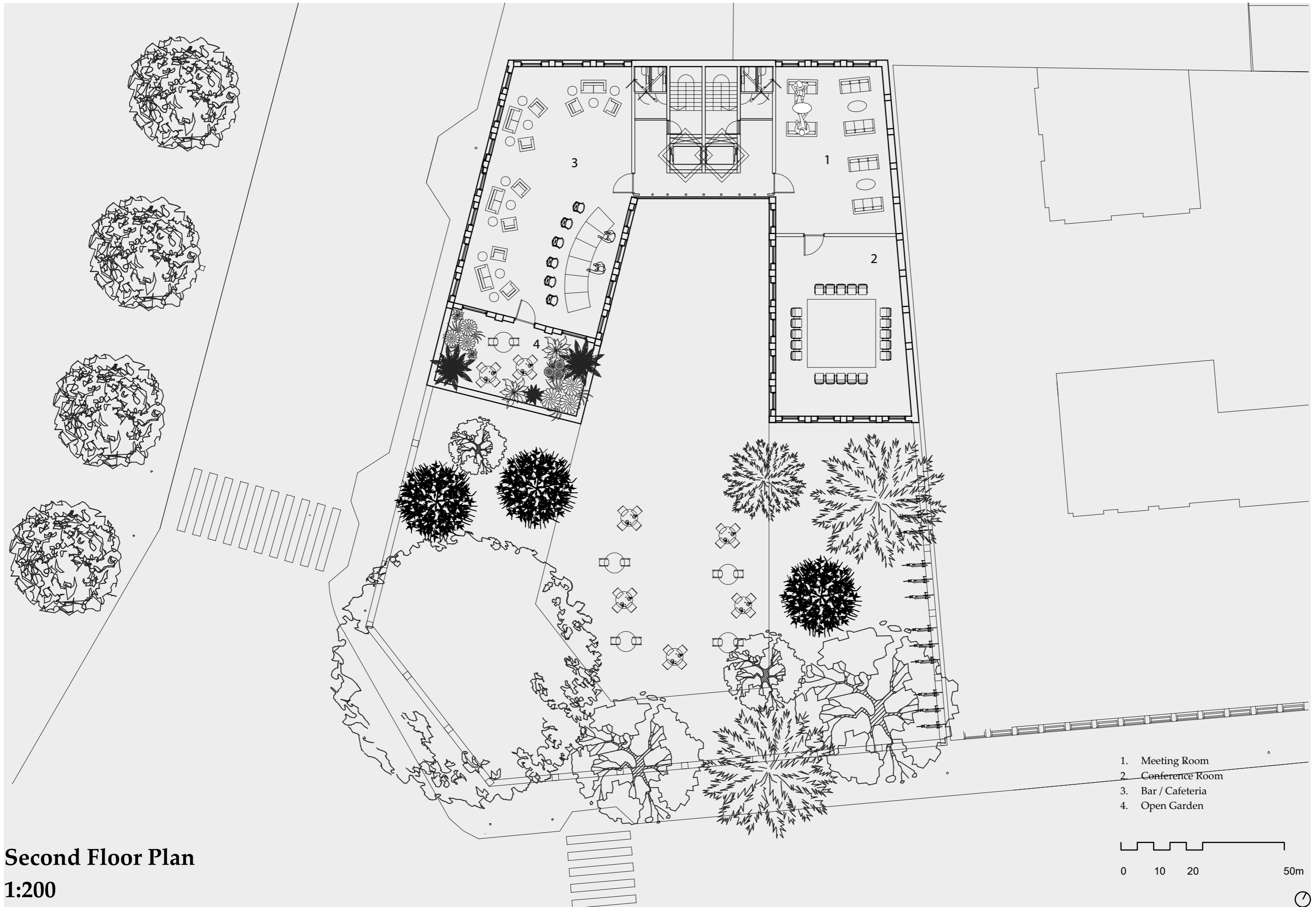


- 1. Library
- 2. Reading Area / Quiet Space



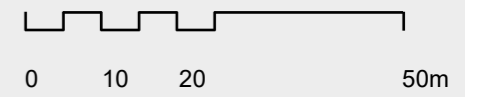
First Floor Plan
1:200





Second Floor Plan
1:200

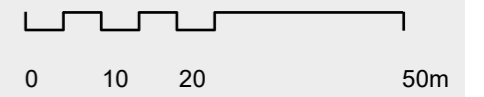
- 1. Meeting Room
- 2. Conference Room
- 3. Bar / Cafeteria
- 4. Open Garden





Third Floor Plan
1:200

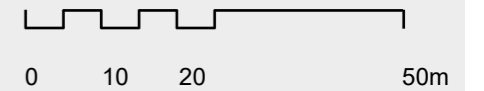
- 1. Citizen Services Offices
- 2. Open Garden





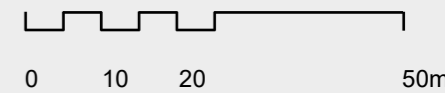
Fourth Floor Plan
1:200

1. Roof Garden



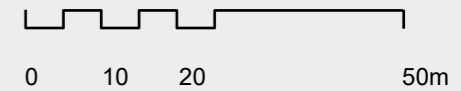


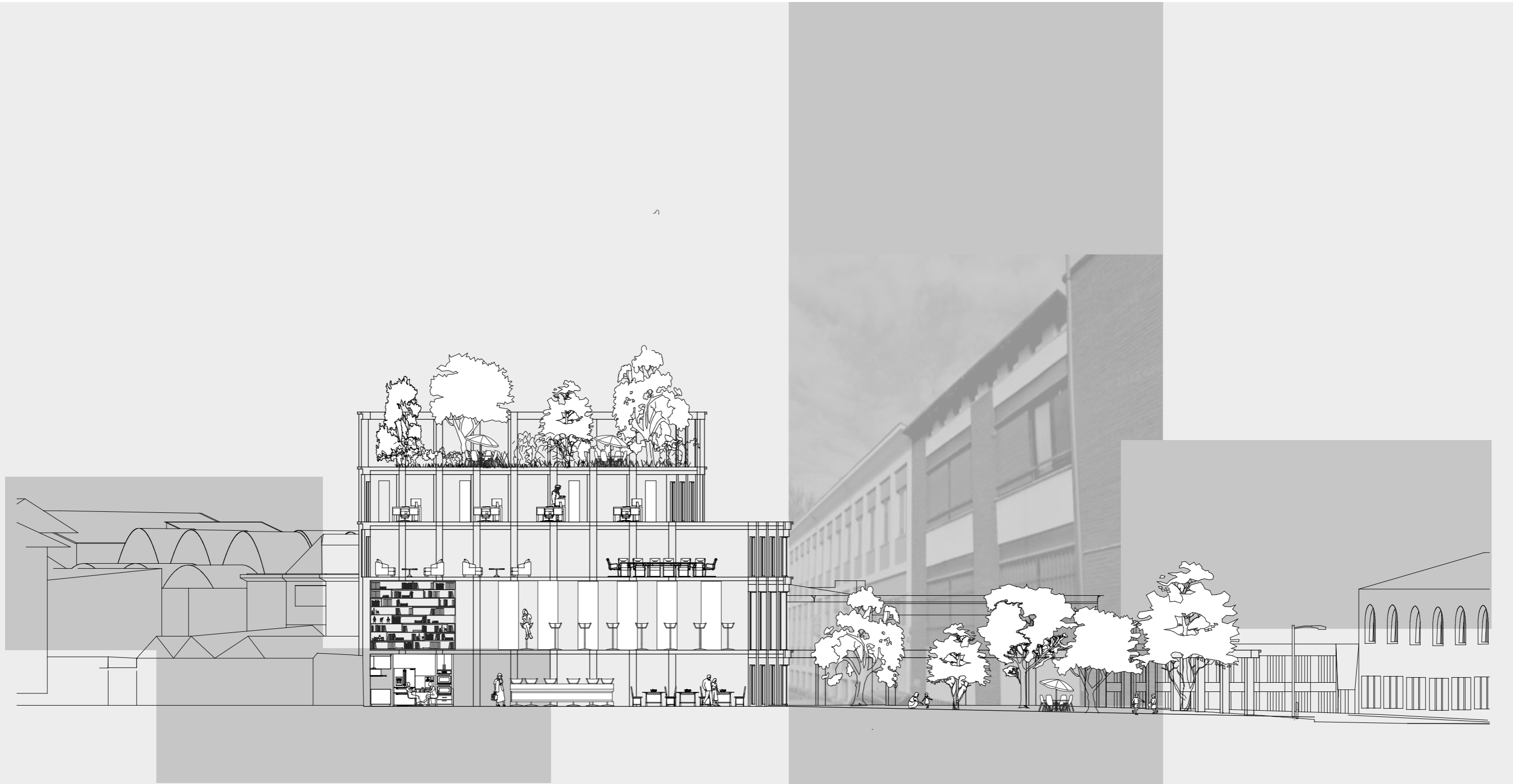
West Elevation
1:200



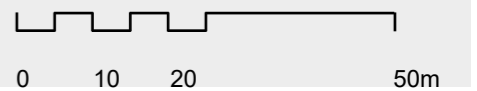
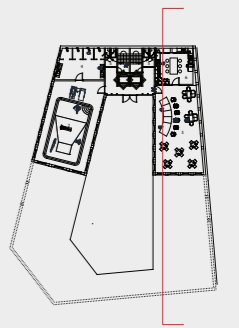


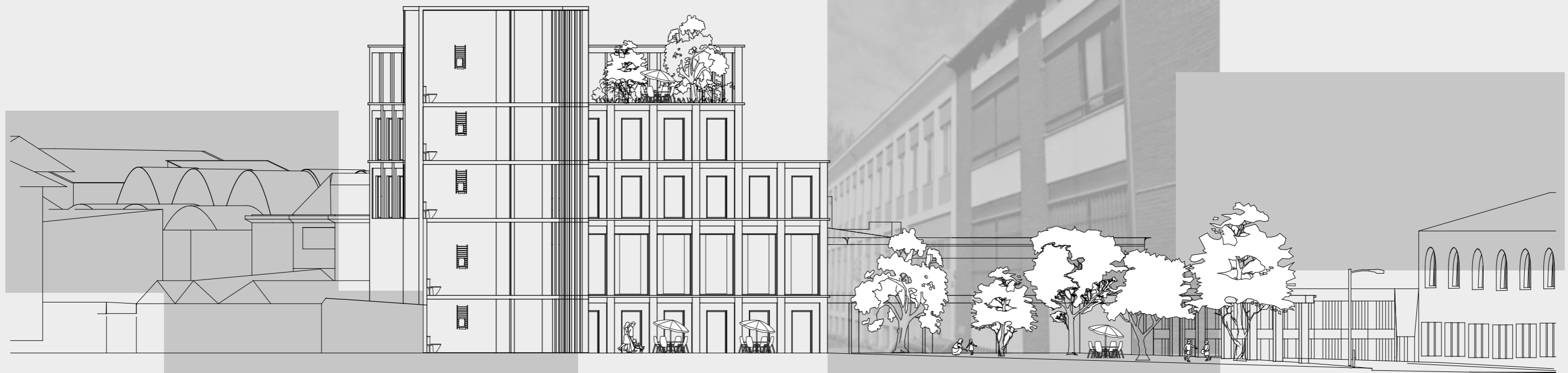
East Elevation
1:200



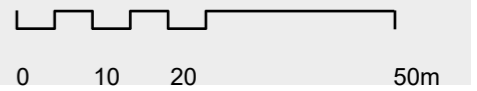
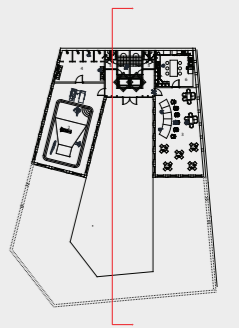


Section A
1:200



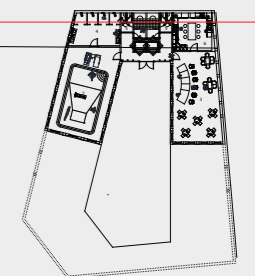
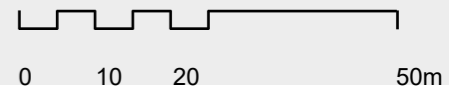


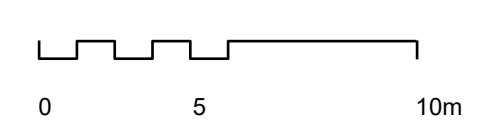
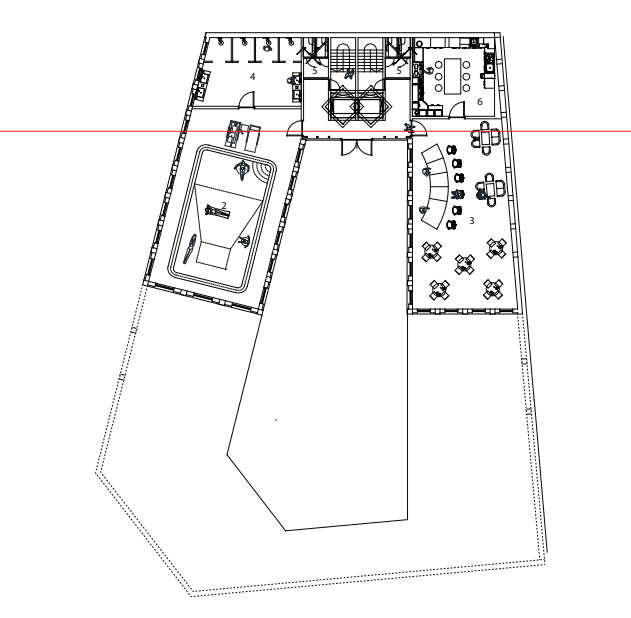
Section B
1:200



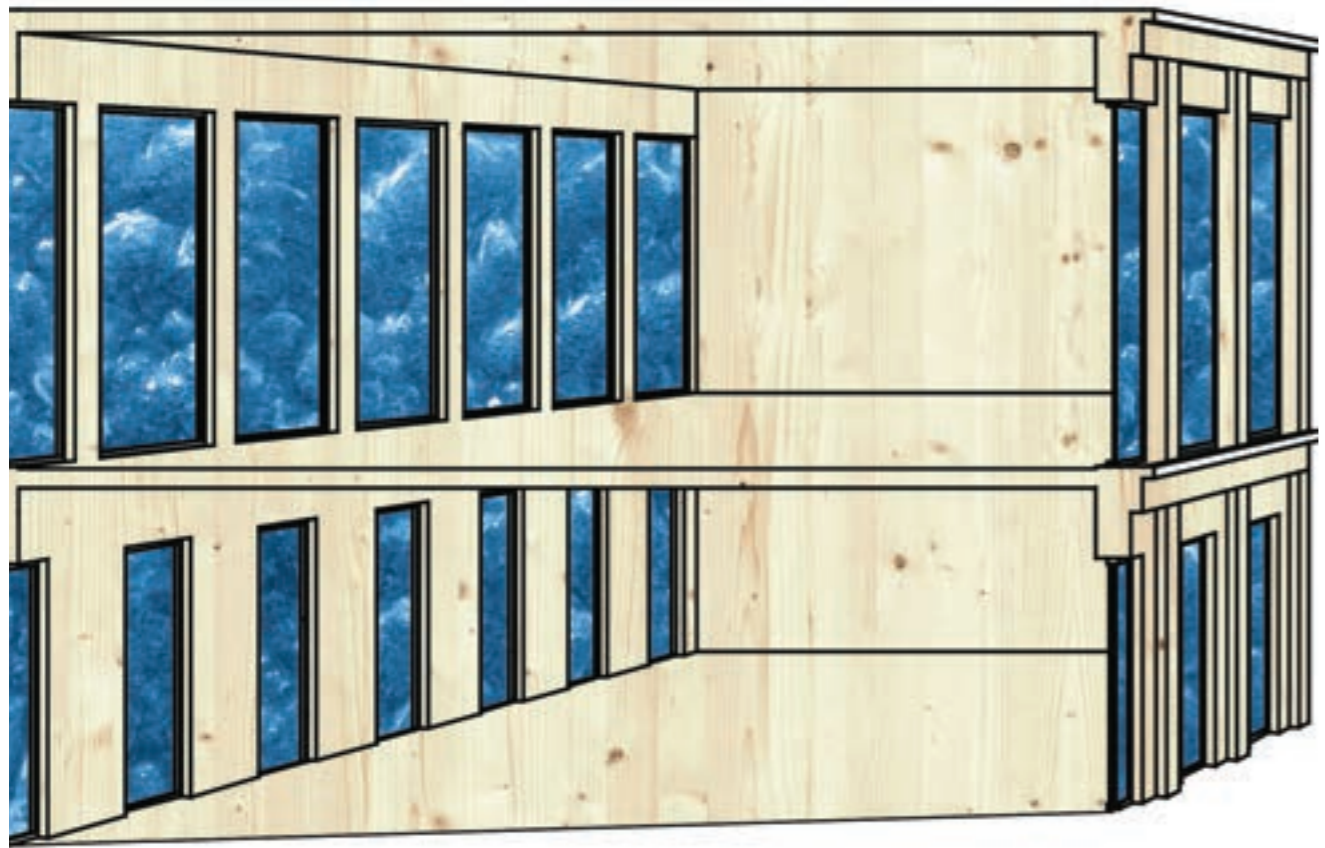


Section C
1:200





Section D
1:50



Stone



Tempered Glass



Physical Properties:

Varies from soft to hard, diverse colours due to minerals and impurities, texture ranges from smooth to rough based on grain size and arrangement, some are transparent, others translucent or opaque, typically has a strong resistance to weather

Chemical Properties:

Reactivity to acids, stability, solubility, oxidation potential, corrosion resistance, water interaction, hydrophobicity/hydrophilicity, redox potential, and ion exchange capacity

Application:

Crucial in fields such as geology, construction, architecture, and conservation, guiding decisions in material selection, structural integrity assessment, preservation efforts, and environmental impact analysis

Physical Properties:

Stronger, safer, and more resistant to heat, impacts, and chemicals compared to regular glass as it has a uniform surface and thickness

Chemical Properties:

Composed of silica (SiO₂) with various additives to modify their properties. However, during the tempering process, no chemical reactions occur that fundamentally change the composition of the glass so it maintains similar chemical resistance to regular glass, with its primary resistance stemming from its inherent silica-based structure

Application:

Windows, car windshields, electronic devices, and household appliances for its strength, safety, and thermal resistance

CLT - Cross Laminated Timber

Physical Properties:

Dense, high hydration, robust, strong and firm, flexible, stable, durable, great insulating properties, sound-absorbing, and variegated colours and forms

Chemical Properties:

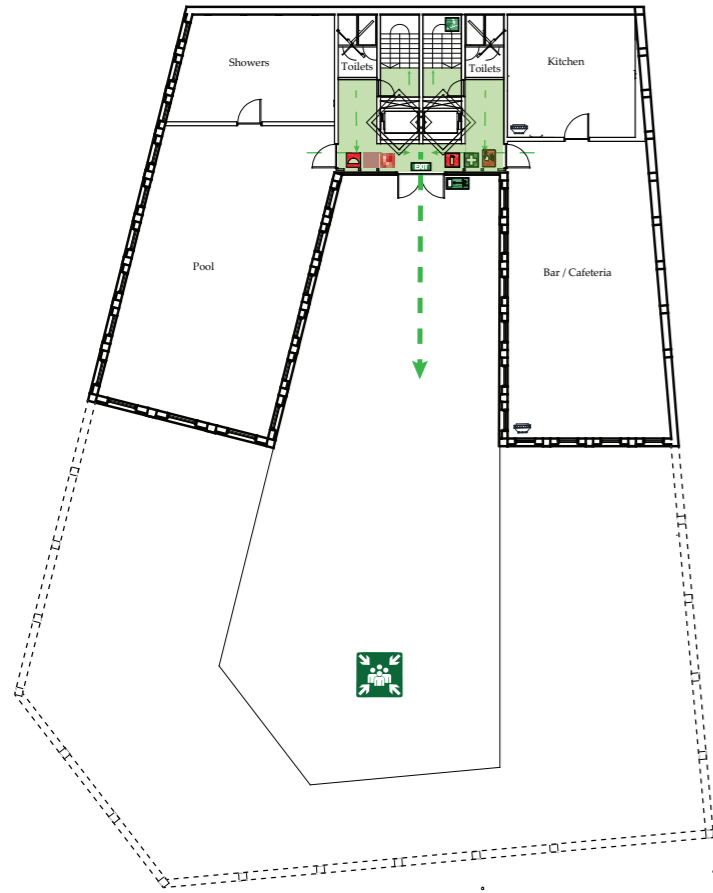
Low emissions, natural resins, and fire resistance due to its charring effect, making it a sustainable and safe building material

Application:

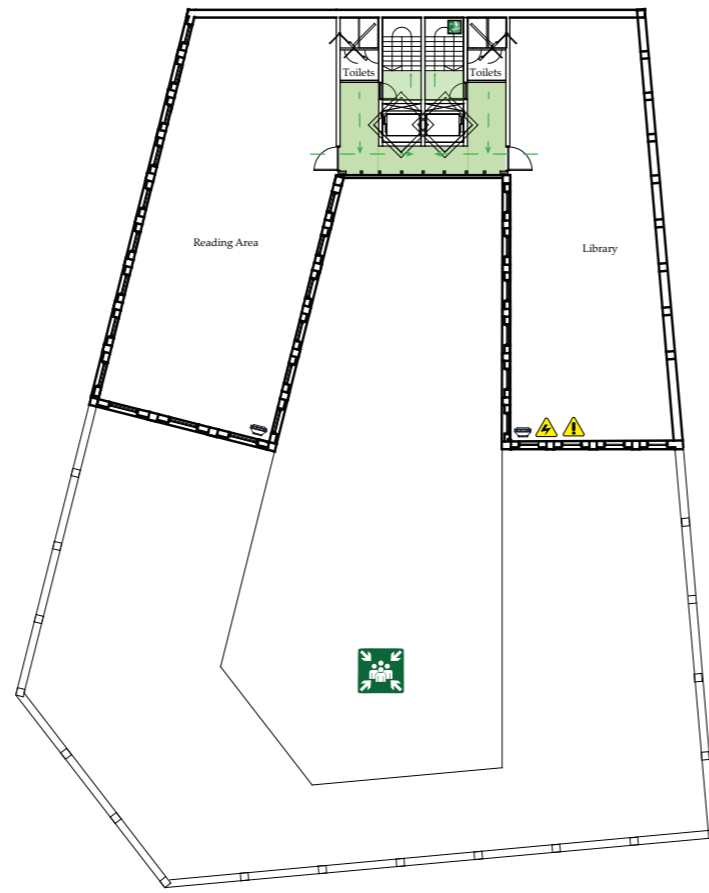
Construction projects, including residential, commercial, and institutional buildings, as well as in infrastructure projects like bridges and industrial facilities, due to its strength, sustainability, and design versatility

Material Strategy

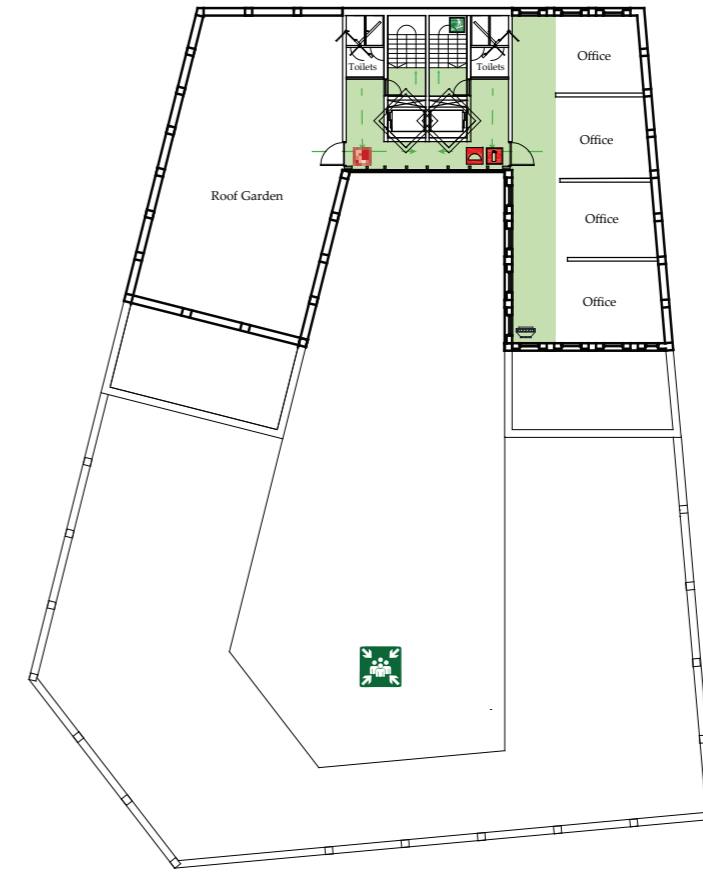




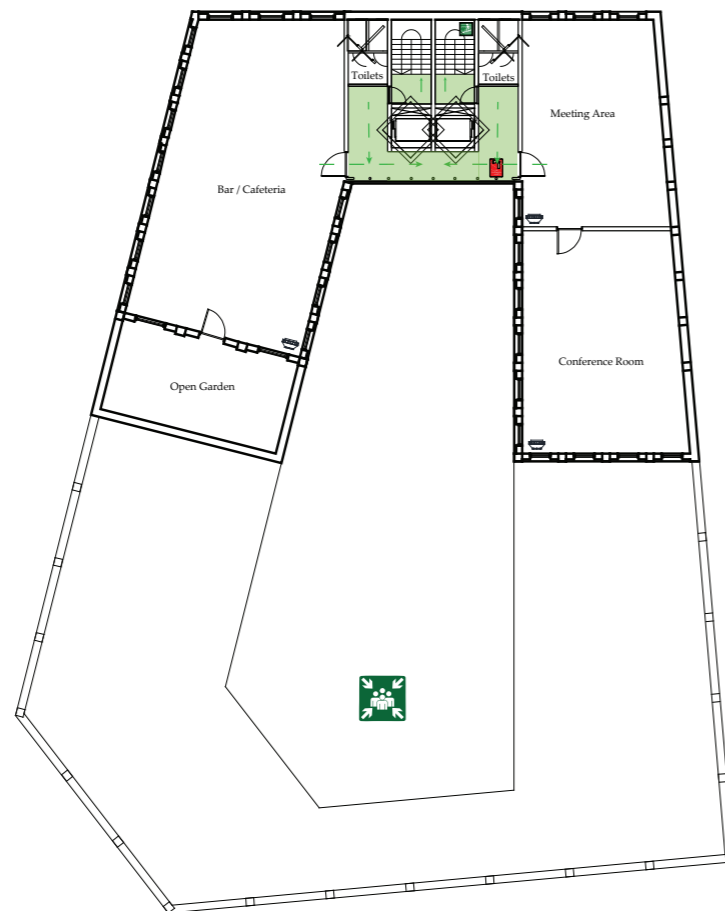
Ground Floor



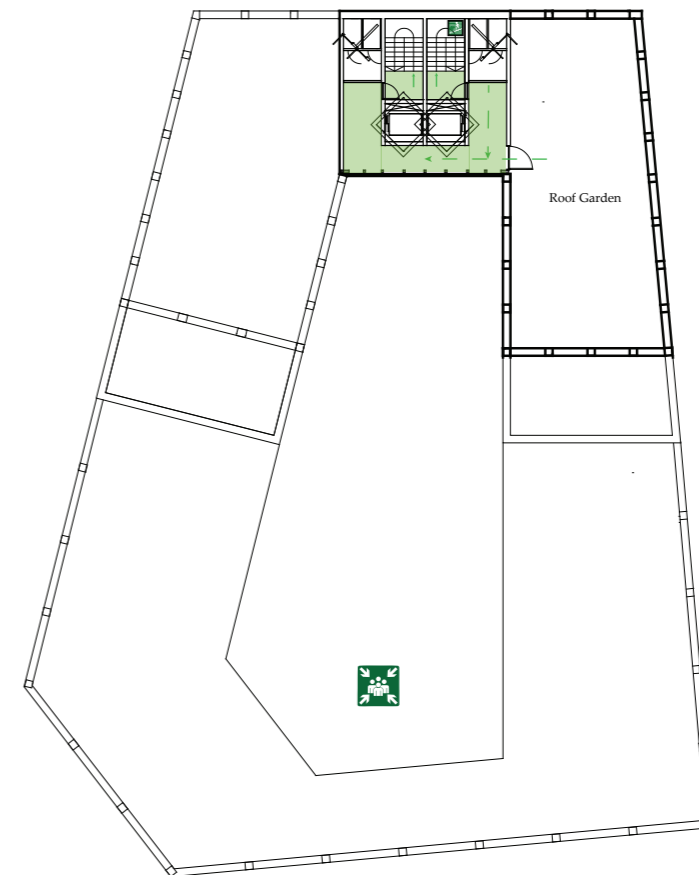
First Floor



















Third Floor



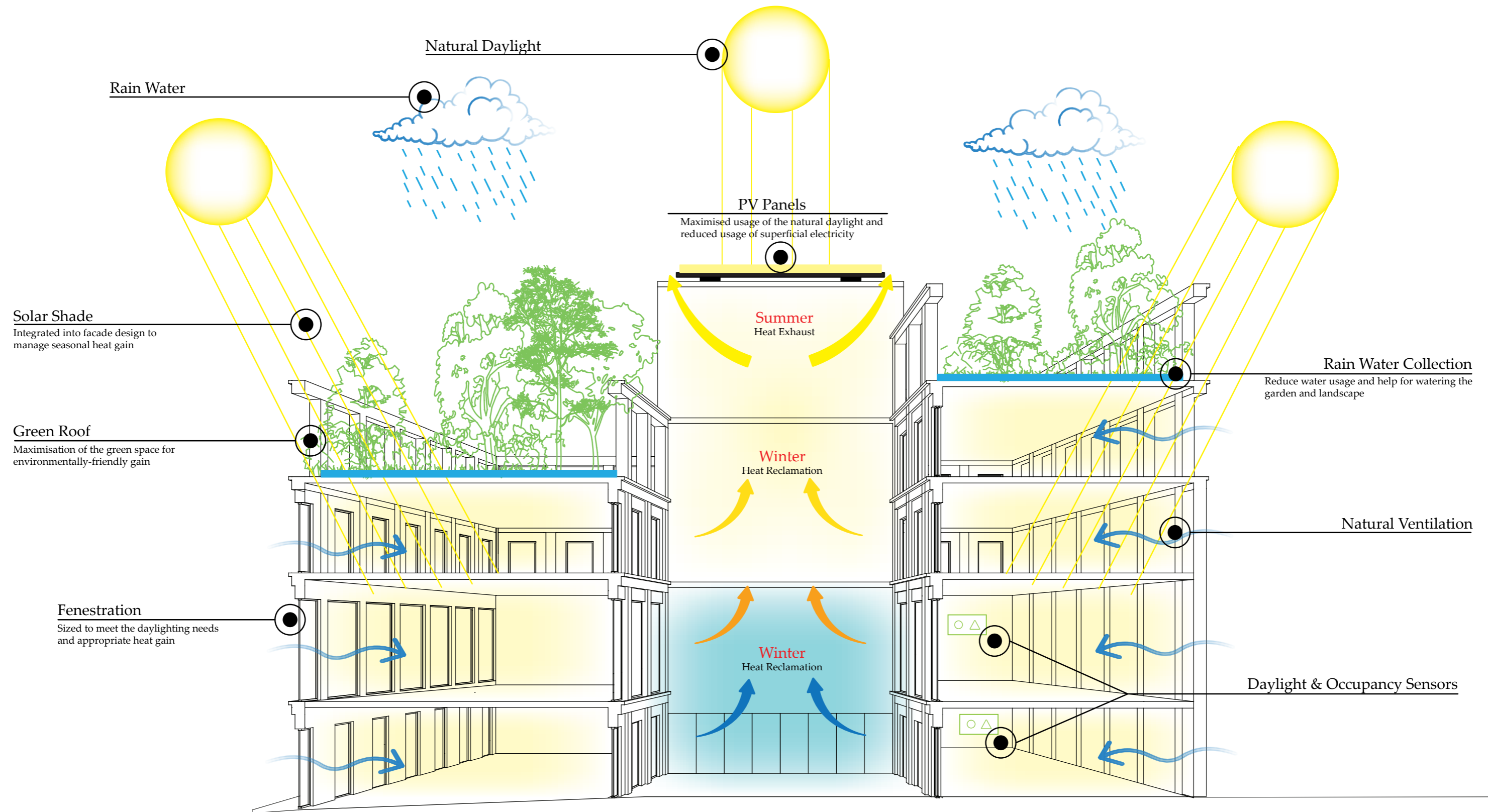
Second Floor



Fourth Floor

-  Extinguisher
-  Fire alarm
-  Fire equipment
-  Smoke alarm
-  Fire evacuation horn
-  Fire Emergency Telephone
-  Hose Reel
-  Assembly Point
-  EXIT
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Accessibility Strategy



Environmental Strategy

Embodied Carbon Calculation (Global Standard EN15978) (Stages A1-A5)

Material description	Density	Embodied carbon A+C KgCO2e/m3	Volume of material Used m3	TOTAL Embodied Carbon Materials
Aluminium (polyester powder coated)	2700	36484	0	0
Aluminium (virgin)	2700	31540	0	0
Aluminium (general)	2700	22814	0	0
Brass	8700	22306	0	0
Galvanised structural steel	7850	17276	0	0
Aluminium (bar and rod)	2700	16636	0	0
Glass fibre Reinforced plastic (GFRP)	1500	14315	0	0
Glass fibre	2500	13327	0	0
Hot rolled structural steel	7850	11176	0	0
Intumescent paint for steel	50	5653	0	0
PVC	1380	2814	0	0
Flat glass	2500	2823	5	14115
Clay Bricks	2400	1271	0	0
Viroc® Cement Bonded Particle Board	1350	948	0	0
Granite/Basalt/Marble	2600	541	0	0
Concrete 40 Mpa (unreinforced)	2400	495	0	0
Concrete Blocks 7.3MPa	2050	372	0.68	253
Bitumen Elastomer	1000	343	0	0
Light concrete (autoclaved aerated)	1000	338	0	0
Plasterboard	720	298	0	0
Limestone	2500	176	0	0
Natural Stone	2500	176	64.54	11334
Sandstone	2400	171	0	0
Icyene (polyurethane)	30	142	0	0
Vapour barrier (polyethylene)	900	128	0	0
Fiber Felt	25	118	0	0
Rockwool	45	35	288.736	10181
Thermacork Insulation	115	-133	0	0
Sustainably sourced MDF	700	-299	0	0
Laminated Bamboo	750	-349	0	0
Sustainably sourced plywood	620	-377	0	0
Sustainably sourced CLT (spruce)	470	-484	503.894	-243967
Sustainably sourced pine	420	-489	0	0
Sustainably sourced Douglas Fir	530	-549	0	0
Sustainably sourced Oak	770	-782	0	0

-208,083	1,269	-164
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kgCO2e TOTAL

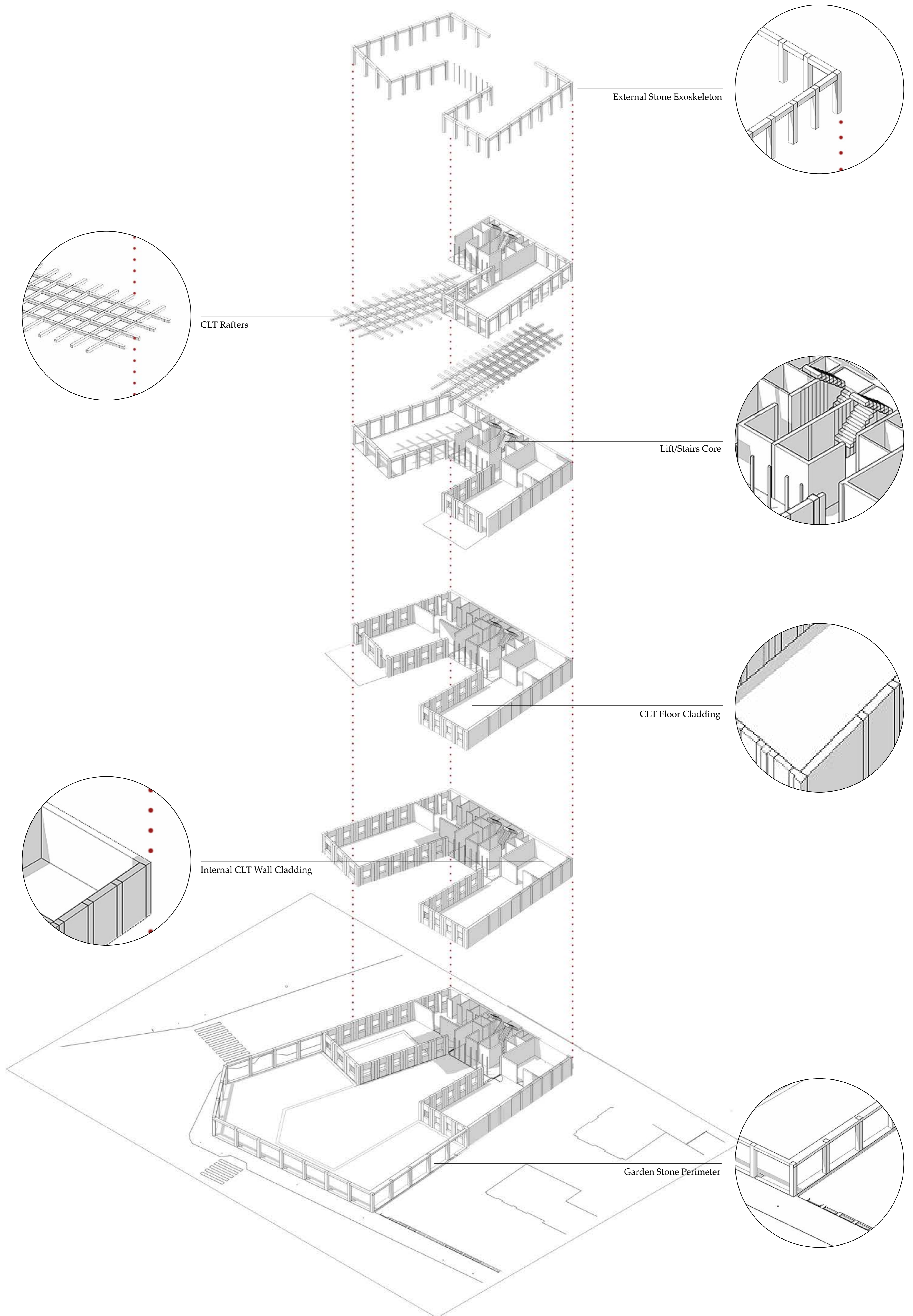
TOTAL m2

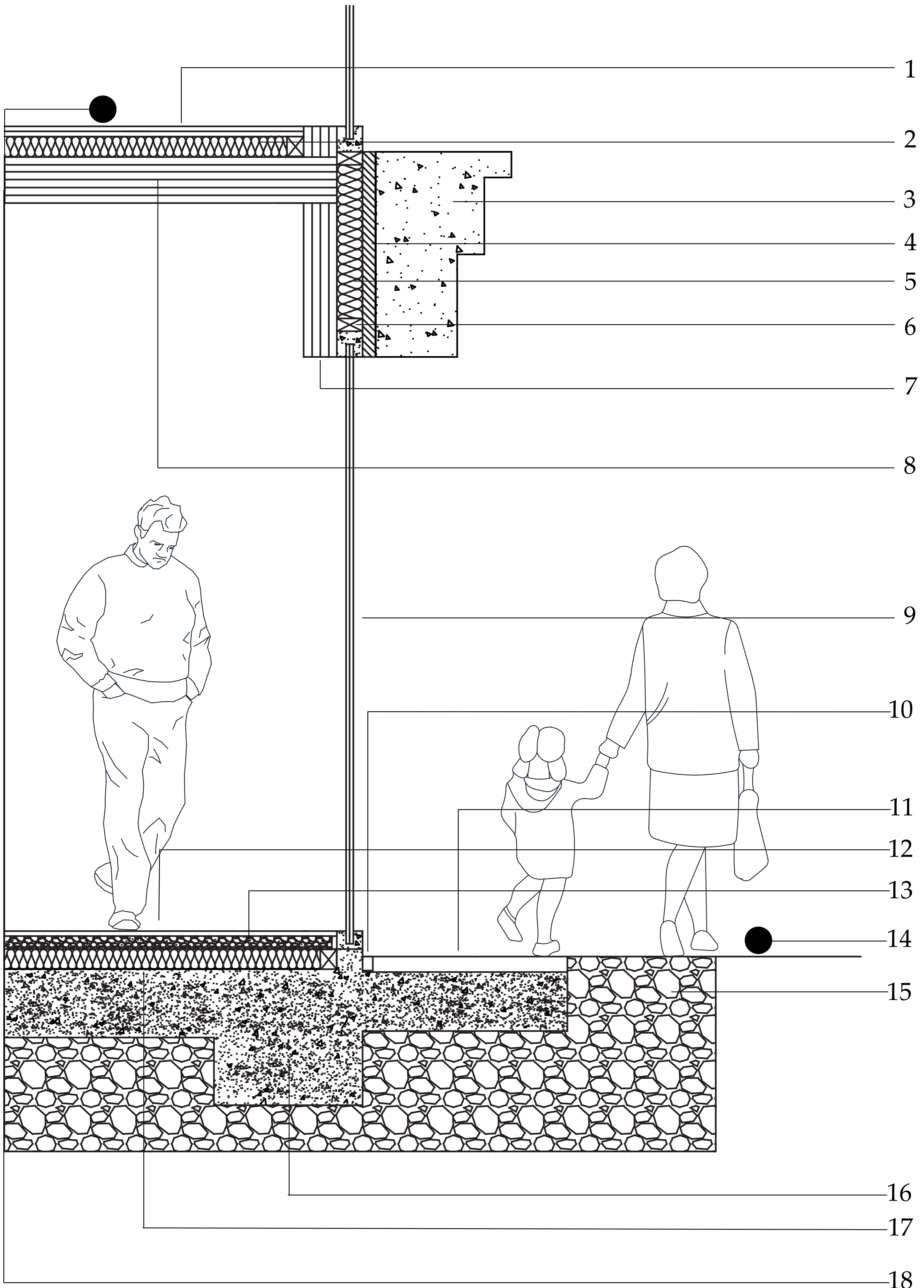
kgCO2e/m2 TOTAL

Only fill in the purple boxes (volume of material used and Total m2)

Embodied Carbon Calculation

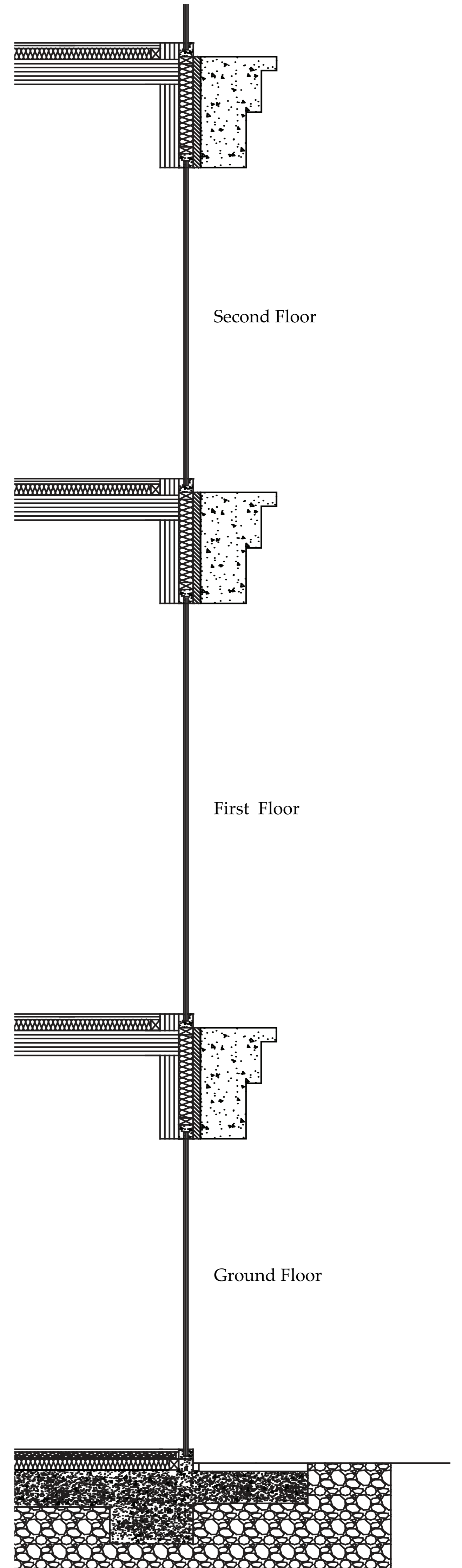
RIBA 2030 CLIMATE CHALLENGE
< 625 kgCO2e/m2





1. 40mm First Floor CLT Flooring Layer
2. 80mm First Floor Thermal Insulation
3. External Stone Structure
4. 50mm Acoustic Sealant
5. 100mm External Wall Thermal Insulation
6. Support Beam
7. 100mm Internal Wall CLT Slab
8. 180mm First Floor CLT Slab
9. 28mm Double-Glazed Tempered Glass Window
10. External Drain
11. 60mm External Stone Floor Tile
12. 20mm Ground Floor CLT Flooring
13. Concrete Screed on Insulation
14. Ground Level
15. Gravel
16. Concrete Foundation Support
17. 80mm Ground Floor Thermal Insulation
18. First Level

1:20 Section
1:20



1. 40mm First Floor CLT Flooring Layer
2. 80mm First Floor Thermal Insulation
3. External Stone Structure
4. 50mm Acoustic Sealant
5. 100mm External Wall Thermal Insulation
6. Support Beam
7. 100mm Internal Wall CLT Slab
8. 180mm First Floor CLT Slab
9. 28mm Double-Glazed Tempered Glass Window
10. External Drain
11. 60mm External Stone Floor Tile
12. 20mm Ground Floor CLT Flooring
13. Concrete Screed on Insulation
14. Ground Level
15. Gravel
16. Concrete Foundation Support
17. 80mm Ground Floor Thermal Insulation
18. First Level

0 1 2 5m



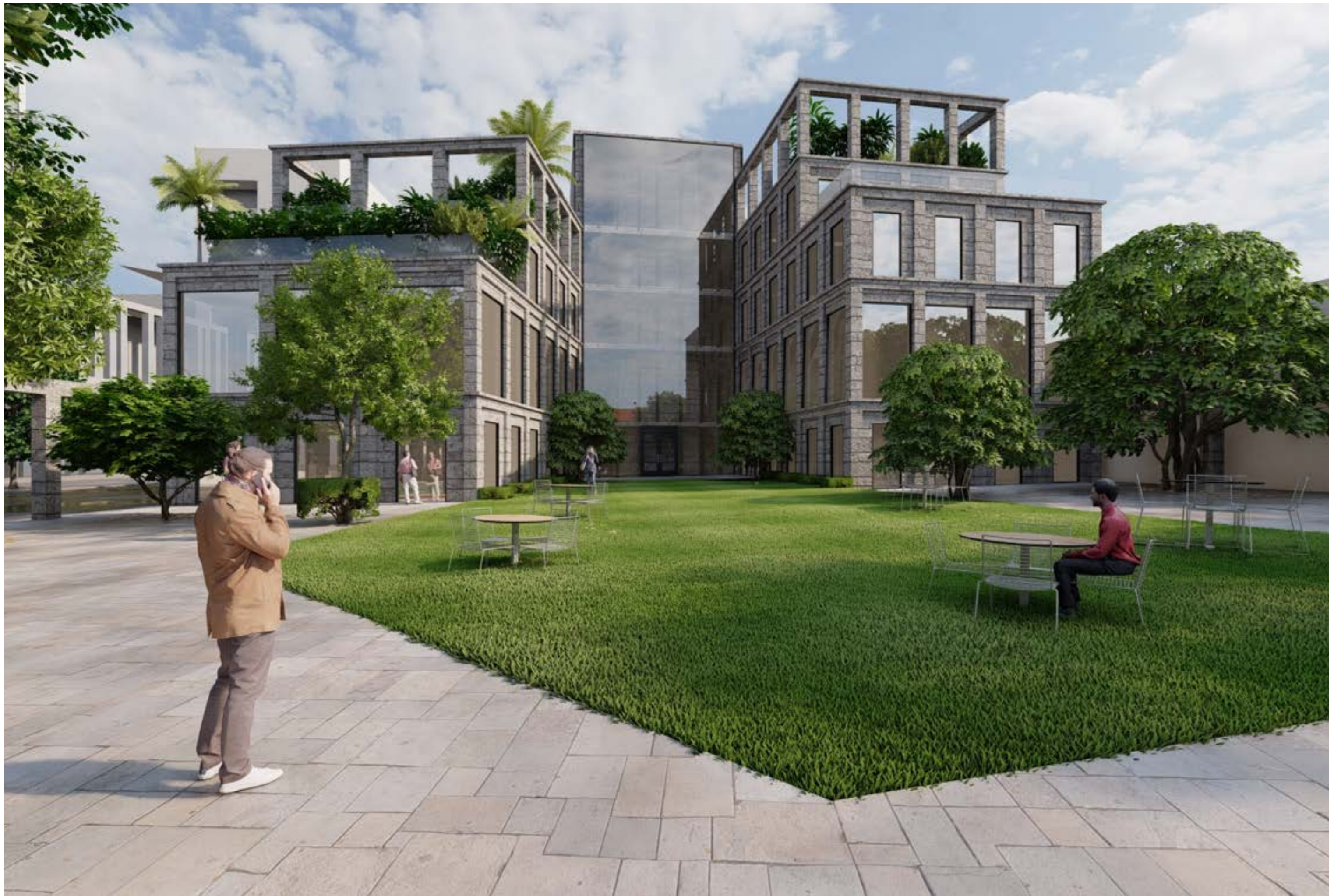
Aerial View



Internal View



Internal View



External View



External View



3D Model