

PORTFOLIO

HARVEY DUNN

ABOUT ME

EXPERIENCE

**UNIVERSITY
OF BRIGHTON** 2018-2022

**DOODLE
DESIGN
STUDIO** 2020
JUNE - AUGUST

**GRIMSHAW
ARCHITECTS** 2018
APRIL

SKILLS

AUTOCAD ● ● ● ● ●

PHOTOSHOP ● ● ● ● ●

INDESIGN ● ● ● ●

RHINOCEROS ● ● ● ●

SKETCH UP ● ● ●

LUMION ● ● ●

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SCHOOL OF CHAIR
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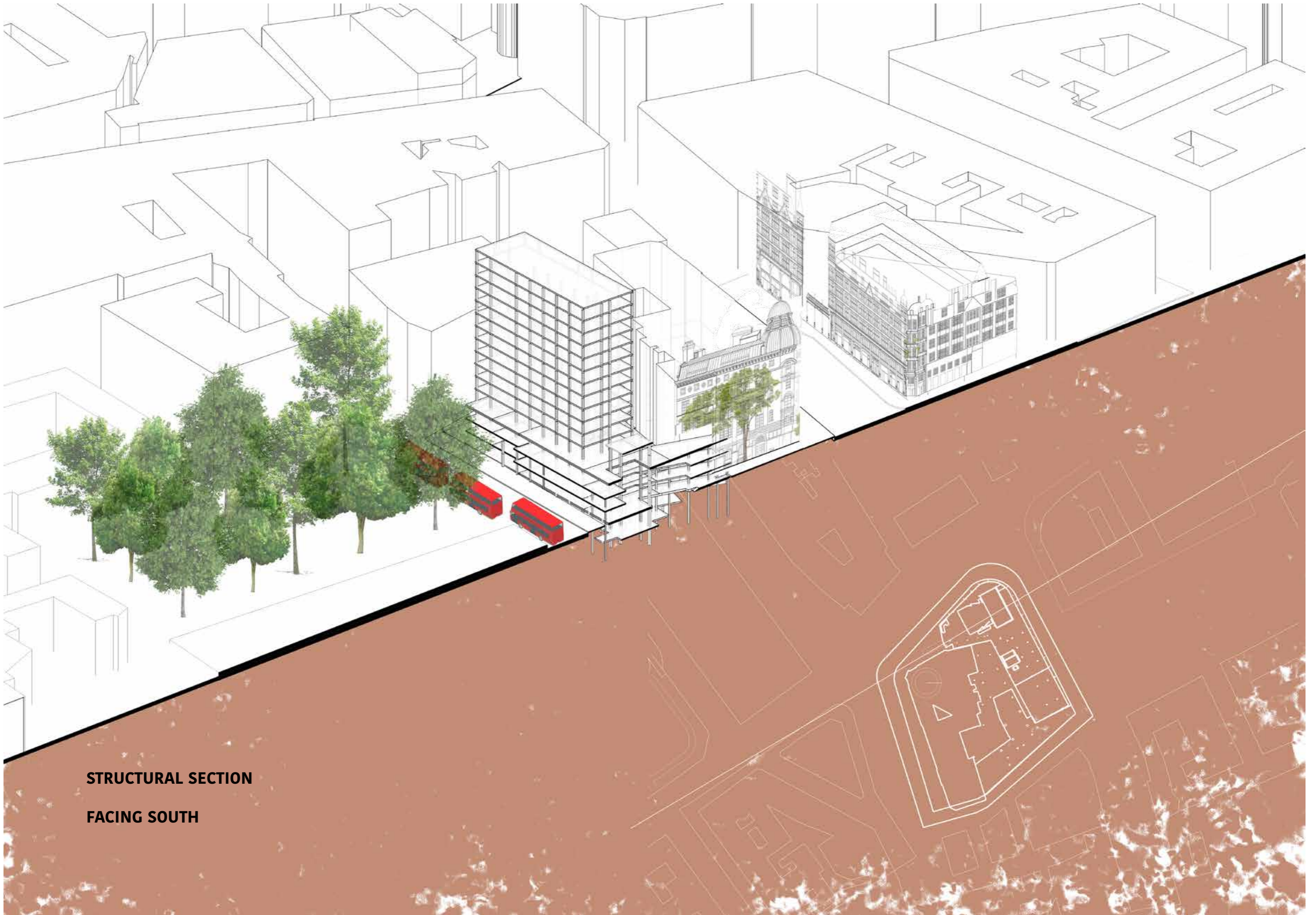


THE HOLBORN SCHOOL OF CHAIR DESIGN AND CRAFT

THE SITE IS LOCATED IN HOLBORN, LONDON AND CURRENTLY HOLDS 2 POORLY INTERCONNECTED BUILDINGS. ONE IS THE CENTRAL ST MARTINS COLLEGE OF ARTS AND DESIGN BUILT IN 1905 THAT IS NOW IN DISUSE; THE OTHER IS THE RED LION SQUARE COLLEGE OF ARTS THAT WAS BUILT IN 1960, WHICH UNTIL RECENTLY HAD ALSO FALLEN IN TO COMPLETE DISUSE UNTIL THE SITE WAS ADOPTED BY THE ARTS CHARITY, THE KOPPEL PROJECT.

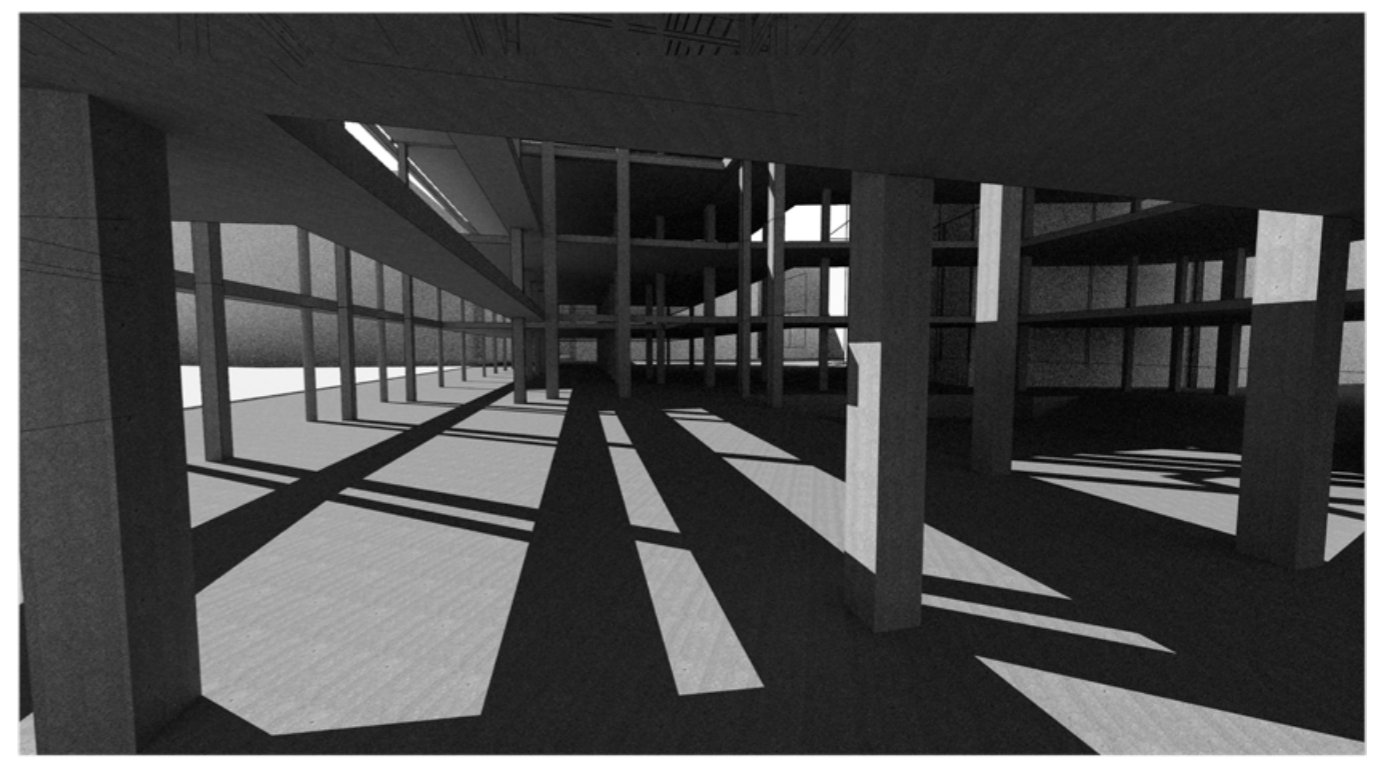
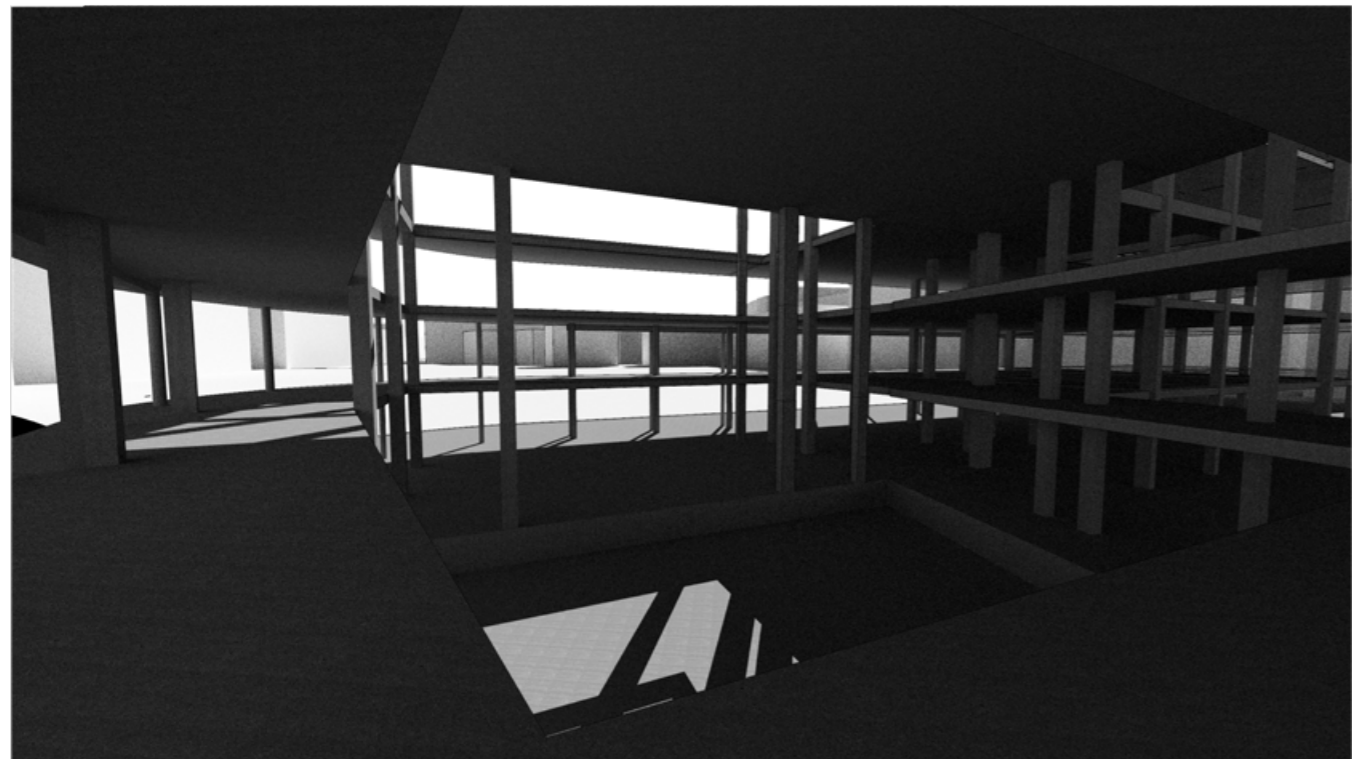
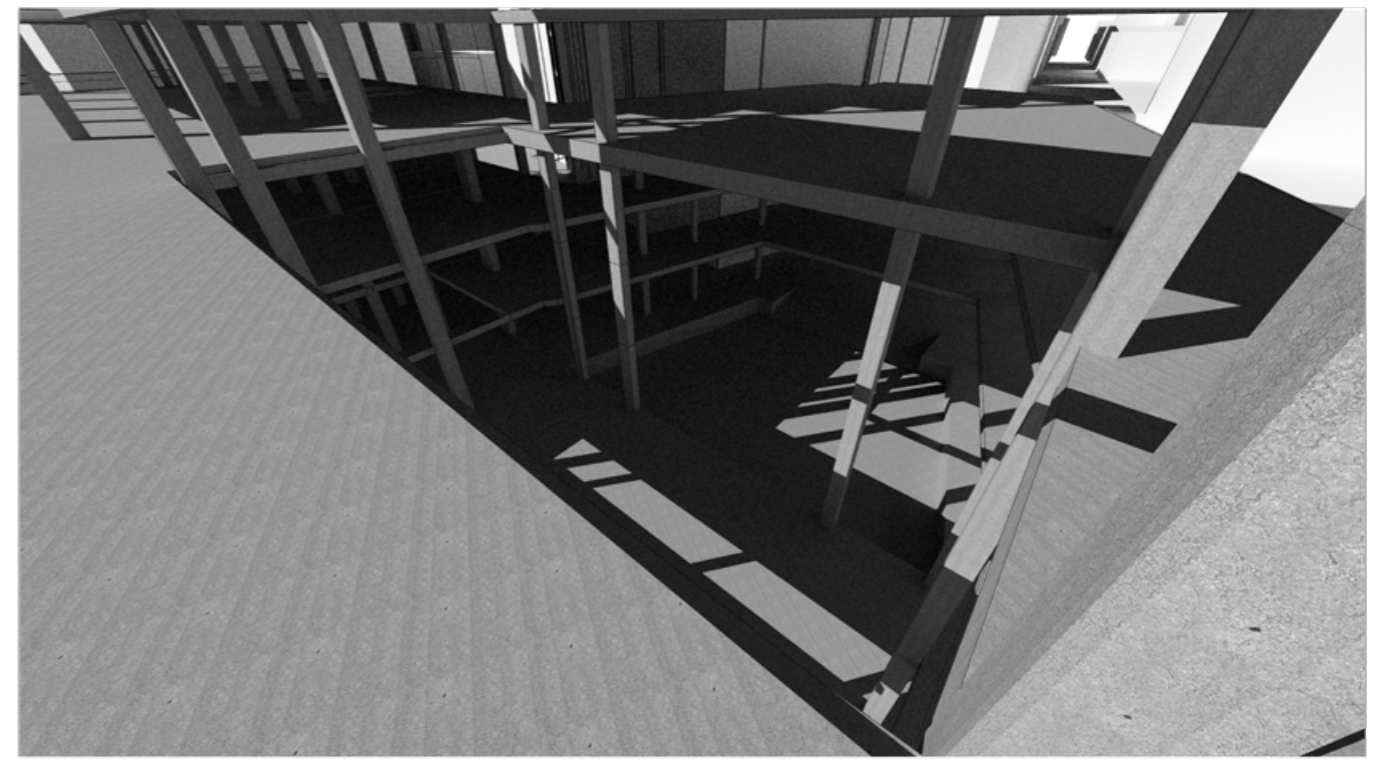


SITE SURVEY ELEVATIONS

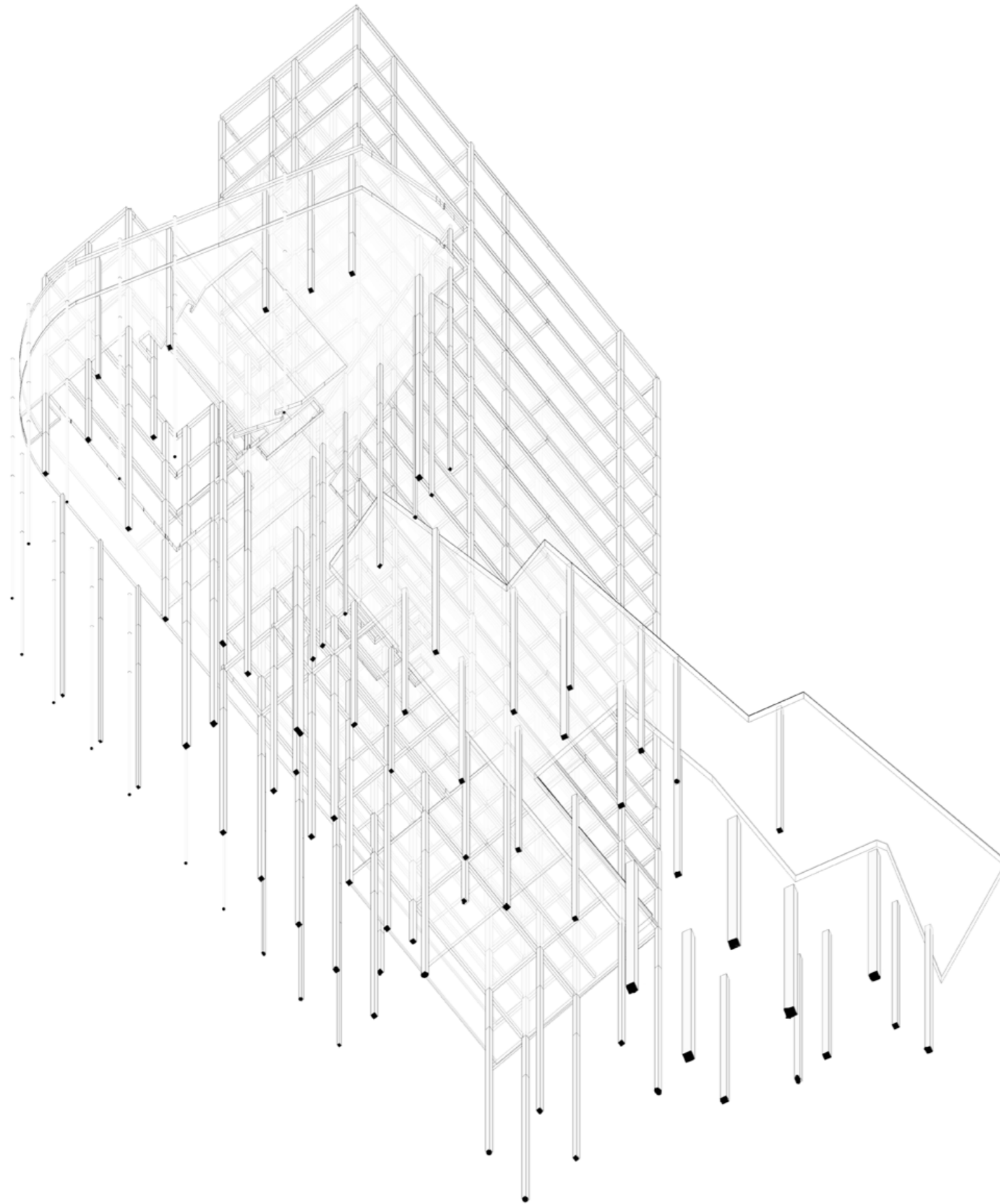


STRUCTURAL SECTION

FACING SOUTH



**VIEWS WITHIN THE EXISTING
STRUCTURE**



TOTAL VOLUME OF THE BEAMS AND
COLUMNS

47278m³

TOTAL STORED CARBON

1920018m³

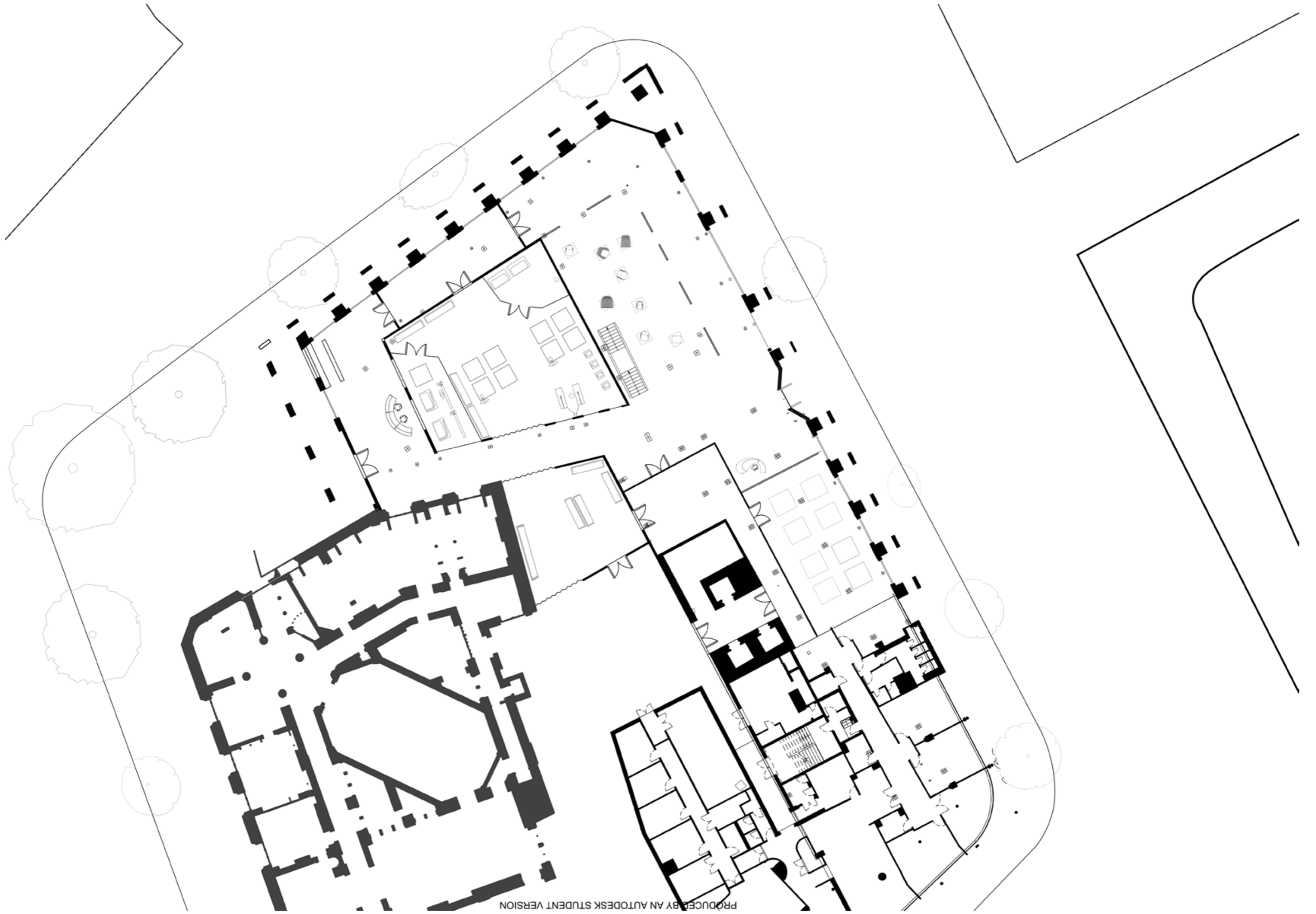
TOTAL STORED CARBON FRAME

58115kg/m³

TOTAL STORED CARBON IN FLOOR
PLATES

51925kg/m³

**WORMS EYE
AXONOMETRIC**



PRODUCED BY AN AUTODESK STUDENT VERSION

GROUND FLOOR PLAN



**DRAKE STREET WEST
ELEVATION**



**SOUTHAMPTON ROW EAST ELE-
VATION**



DRAKE STREET WEST
ELEVATION





ON IT'S SURFACE THE BRIEF IS SIMPLE. TO DESIGN A HOME DISPELLING THE VICTORIAN HOUSING TYPOLOGY AND INSTEAD USE THE PATTERN OF A NINE SQUARE GRID.

HOWEVER, WHEN BEGINNING TO GENERATE A PROGRAMME, WITHOUT LIMITATIONS OF STANDARD PARAMETERS. THE SITE IS NON CONTEXTUAL, THE PROJECT IS NOT FUNDED BY EXTERNAL AGENTS. THE PROJECT BECOMES PRECISELY THE REPERCUSSIONS OF YOUR ACTIONS AND INTERPRETATIONS ONLY.

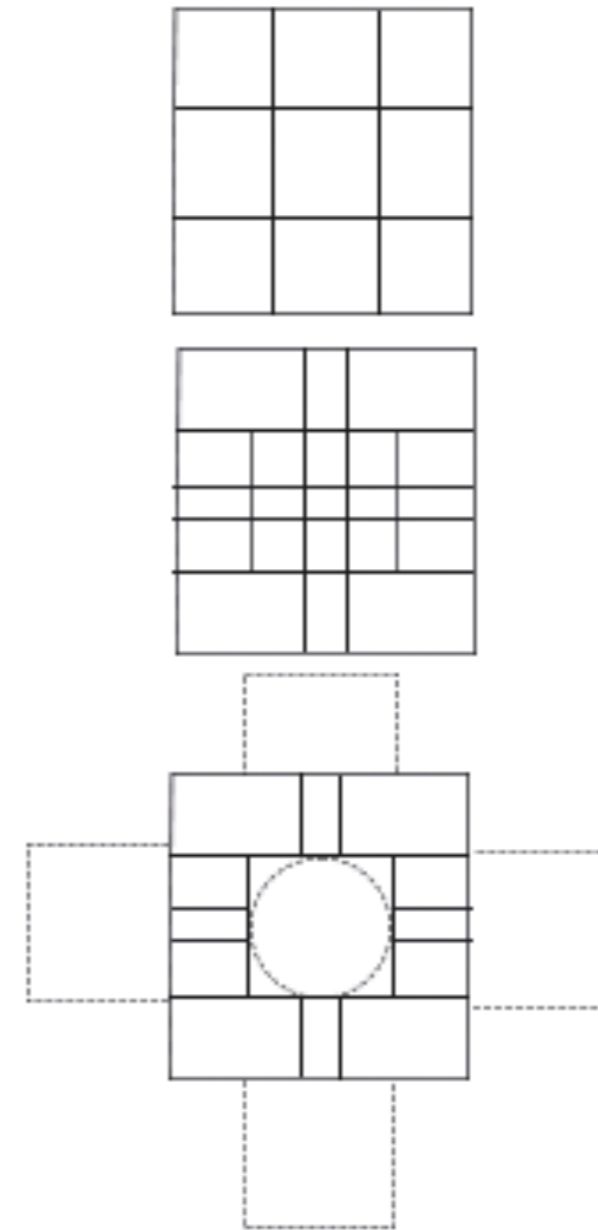
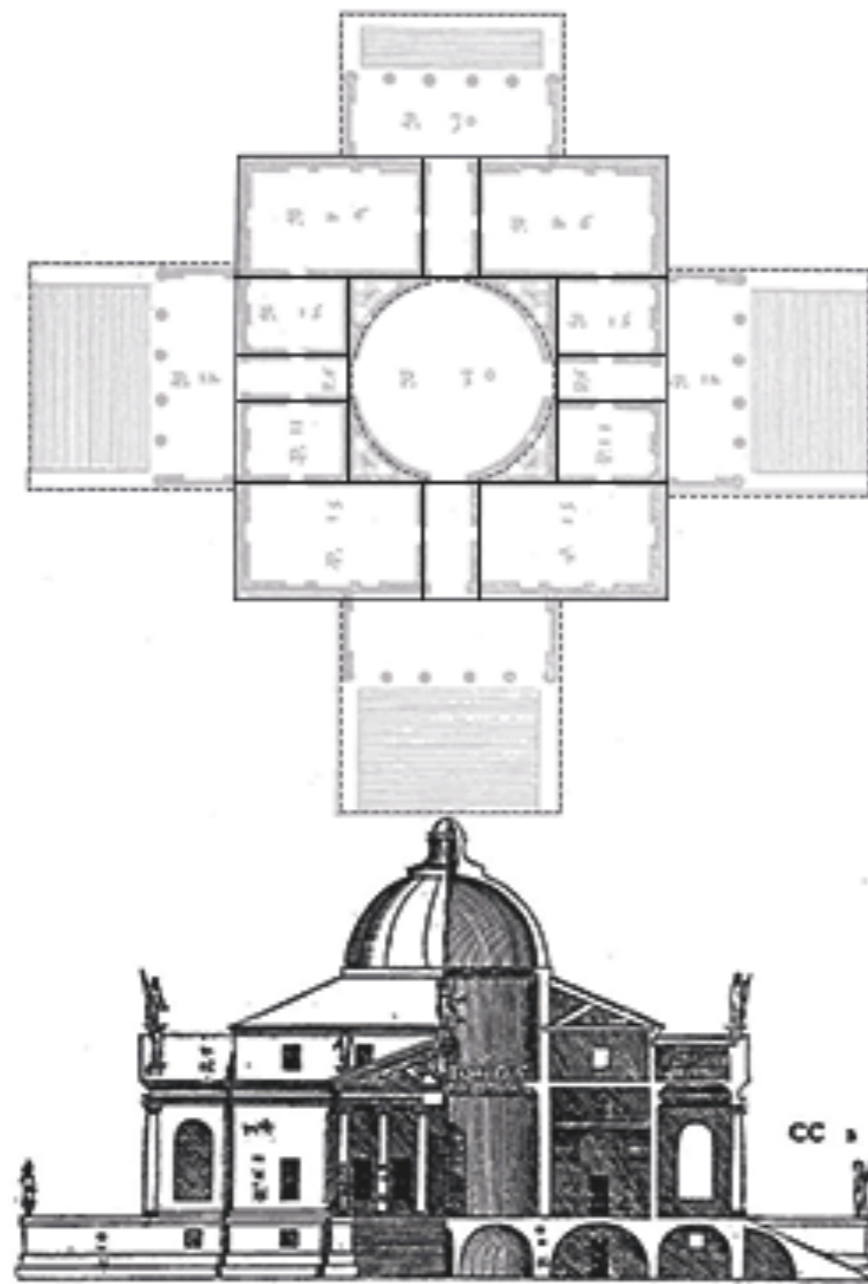
THE INTERPRETATION OF THE HUMAN ROUTINE, THE HUMAN NATURE, THE CAUSATION OF EMOTIONS AND OUR REACTIONS TO THE DEFINITION OF 'HOME'.

ALONGSIDE THIS WE HAD TO ENCORPORATE THE LIFE OF WORK IN TO THE ROUTINE. A PART OF OUR EXISTENCE THAT FOR MANY USED TO SEPERATE US FROM THE HOME HOWEVER, IN RECENT YEARS BECOME THRUSTED IN TO THE NORM FOR MANY. A REACTION THAT WE AS STUDYING PRACTITIONERS MUST EVOLVE ALONGSIDE.

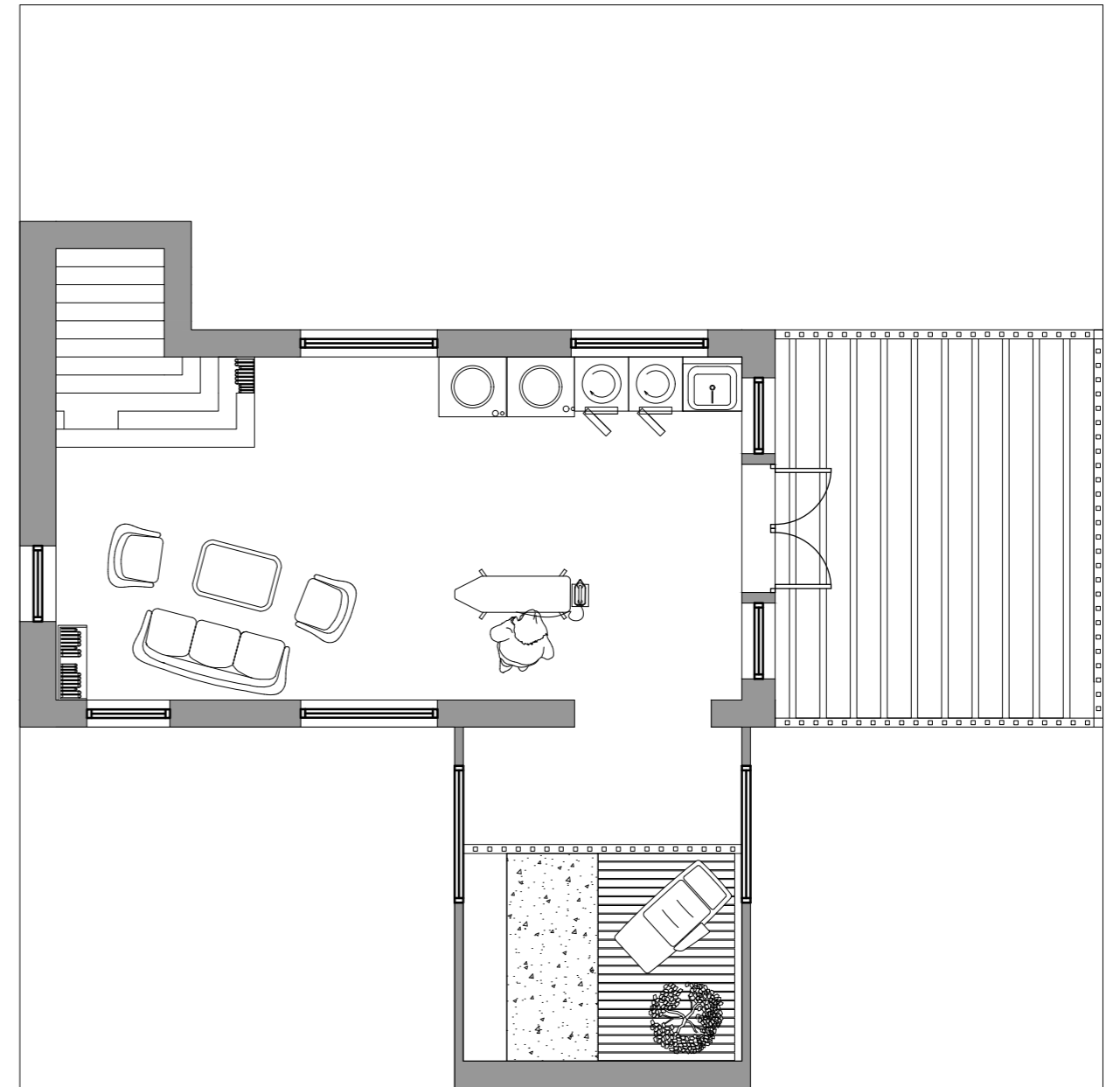
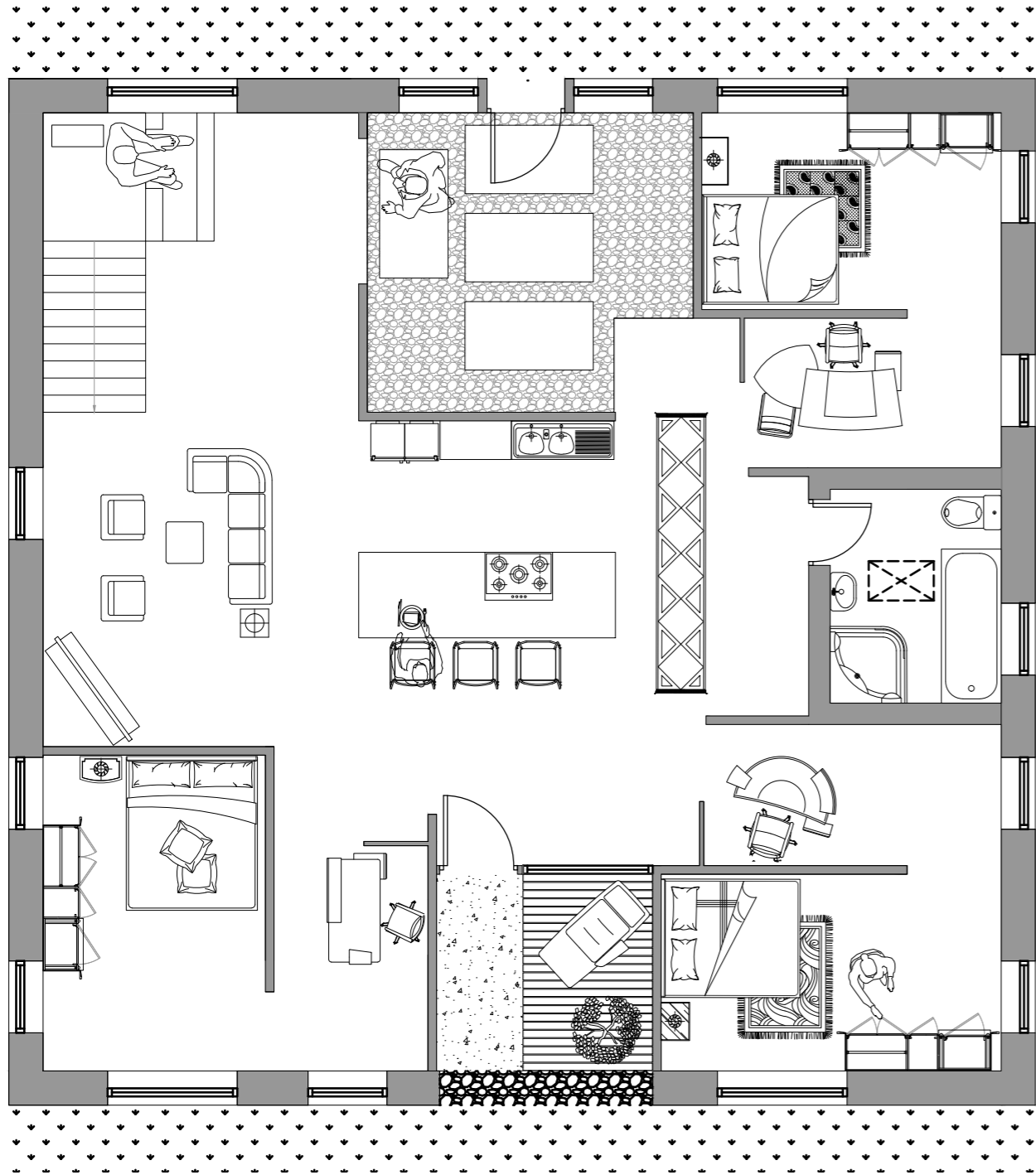
NONETHELESS A WISE MAN ONCE SAID "THE NINE SQUARE KNOWS MORE ABOUT ARCHITECTURE THAN YOU DO".

THIRD YEAR
TERM TERM ONE

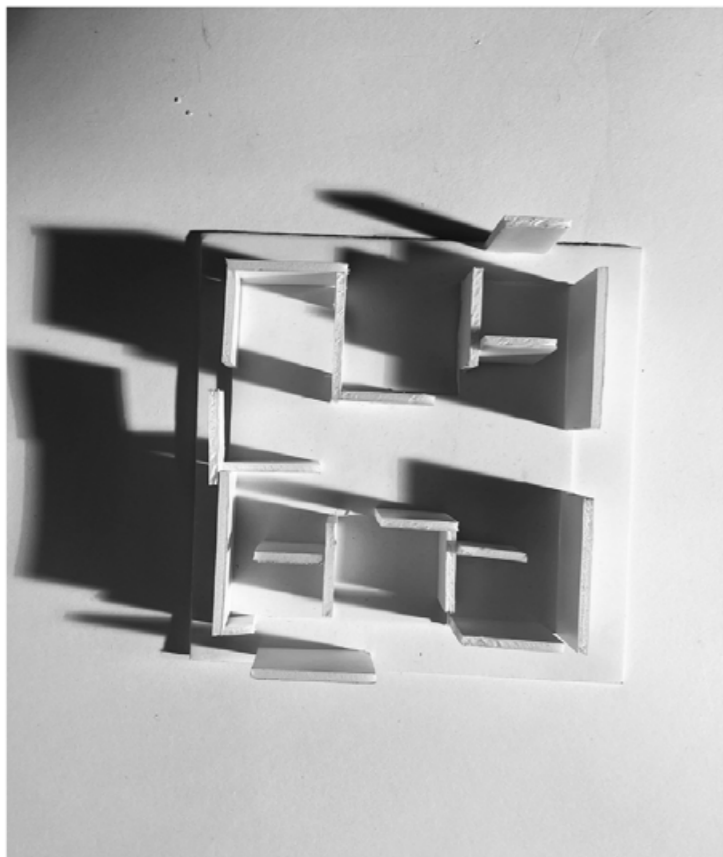
**THE NINE SQUARE
HOUSE**



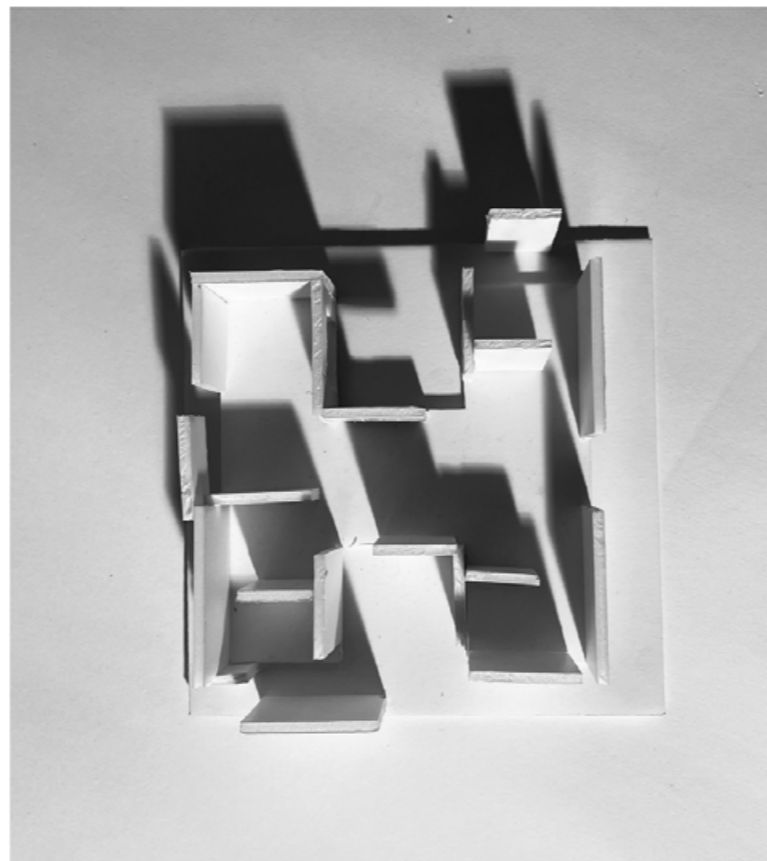
**PALLADIO'S LA RATONDA
GRID STUDY**



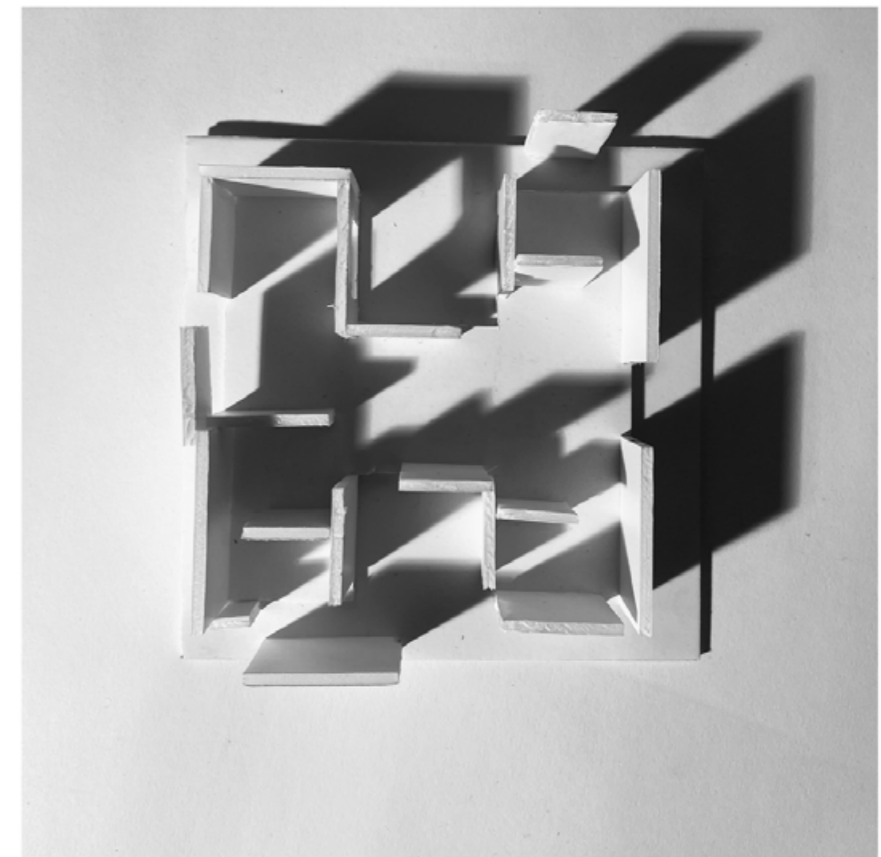
INITIAL ITERATION



9am

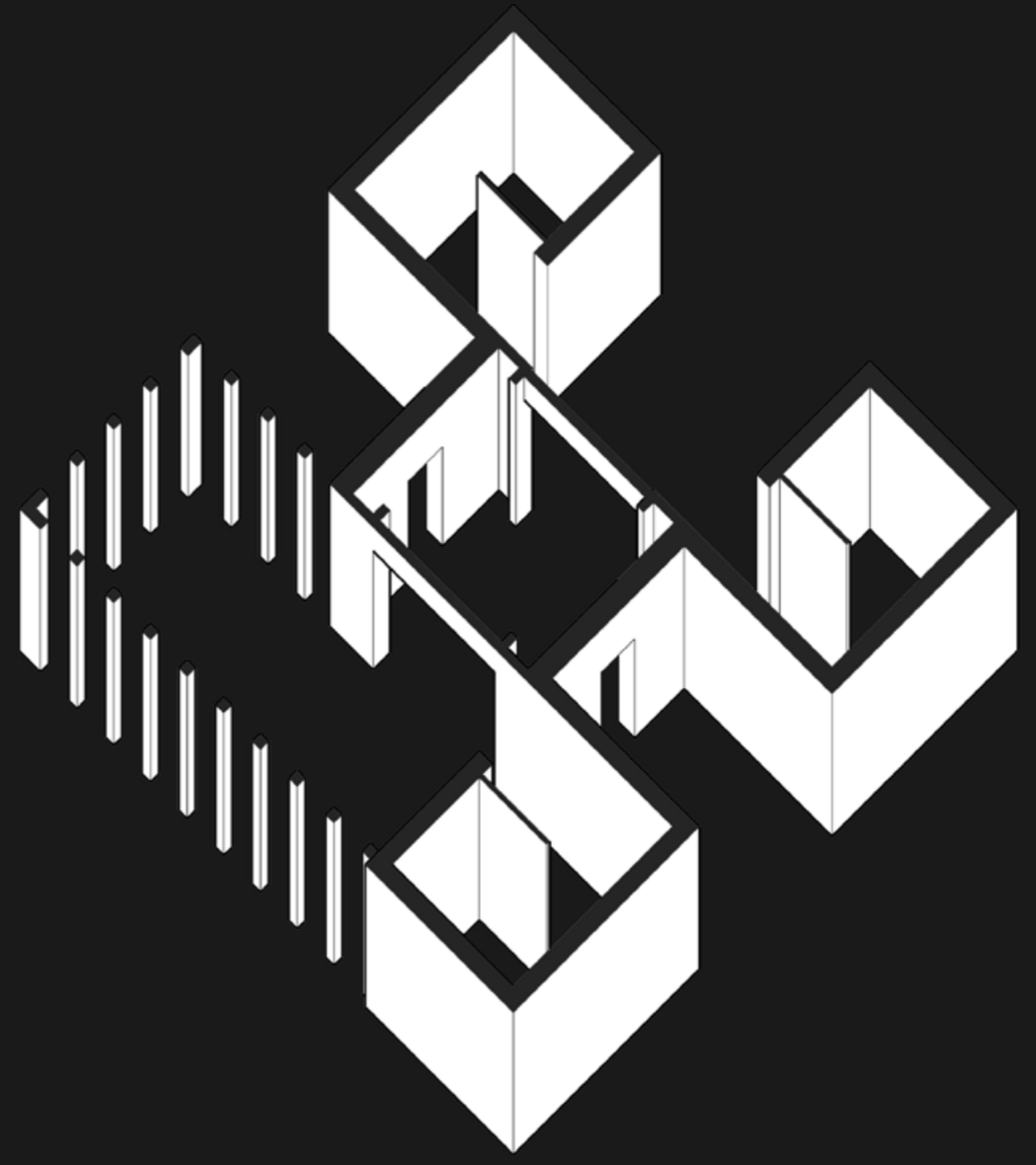
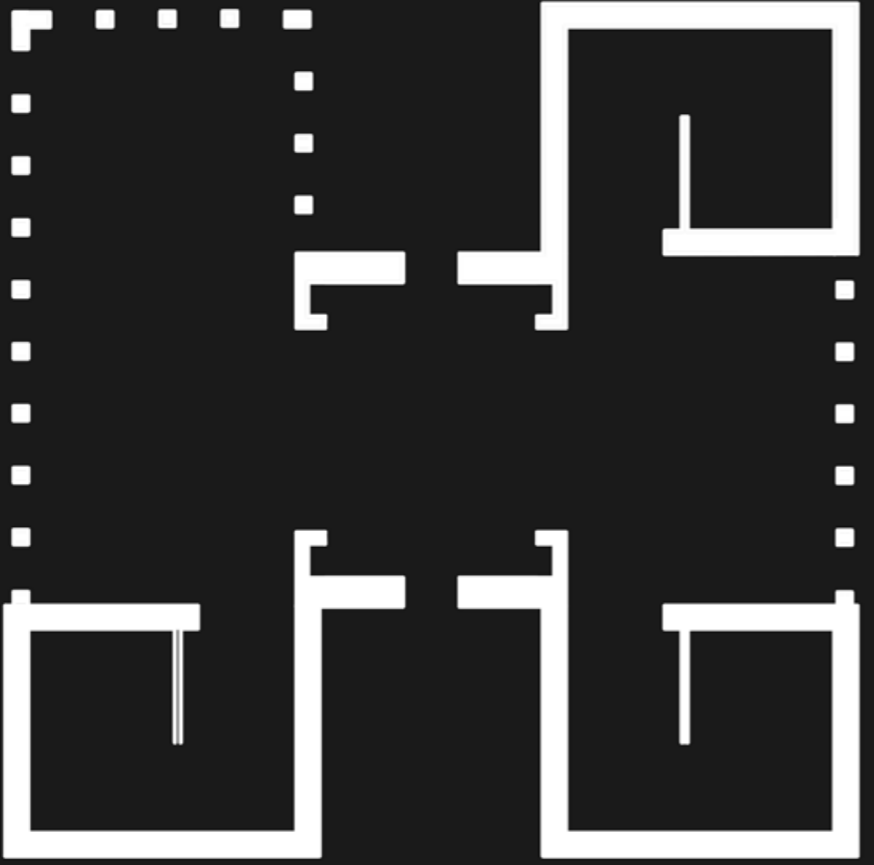
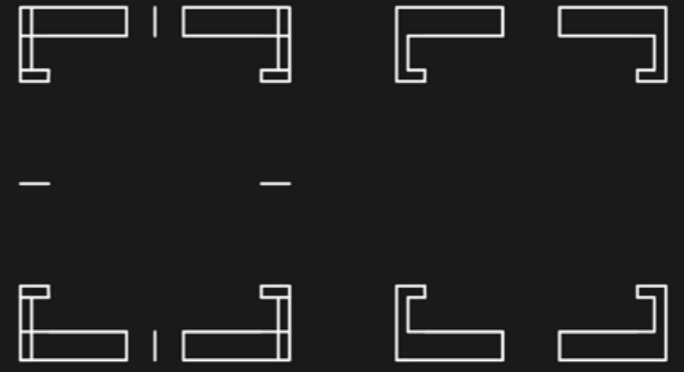
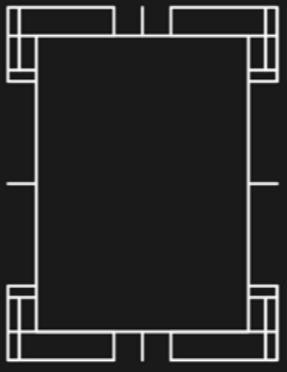
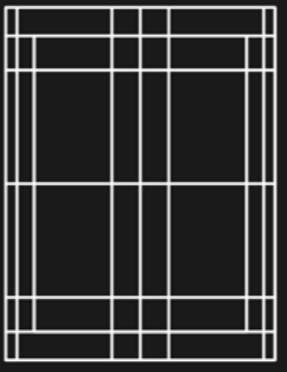
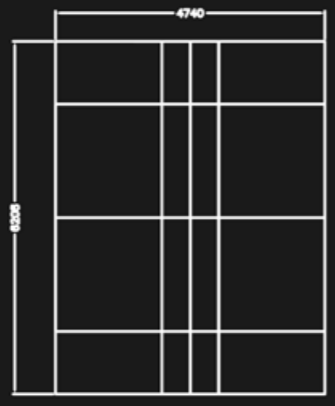


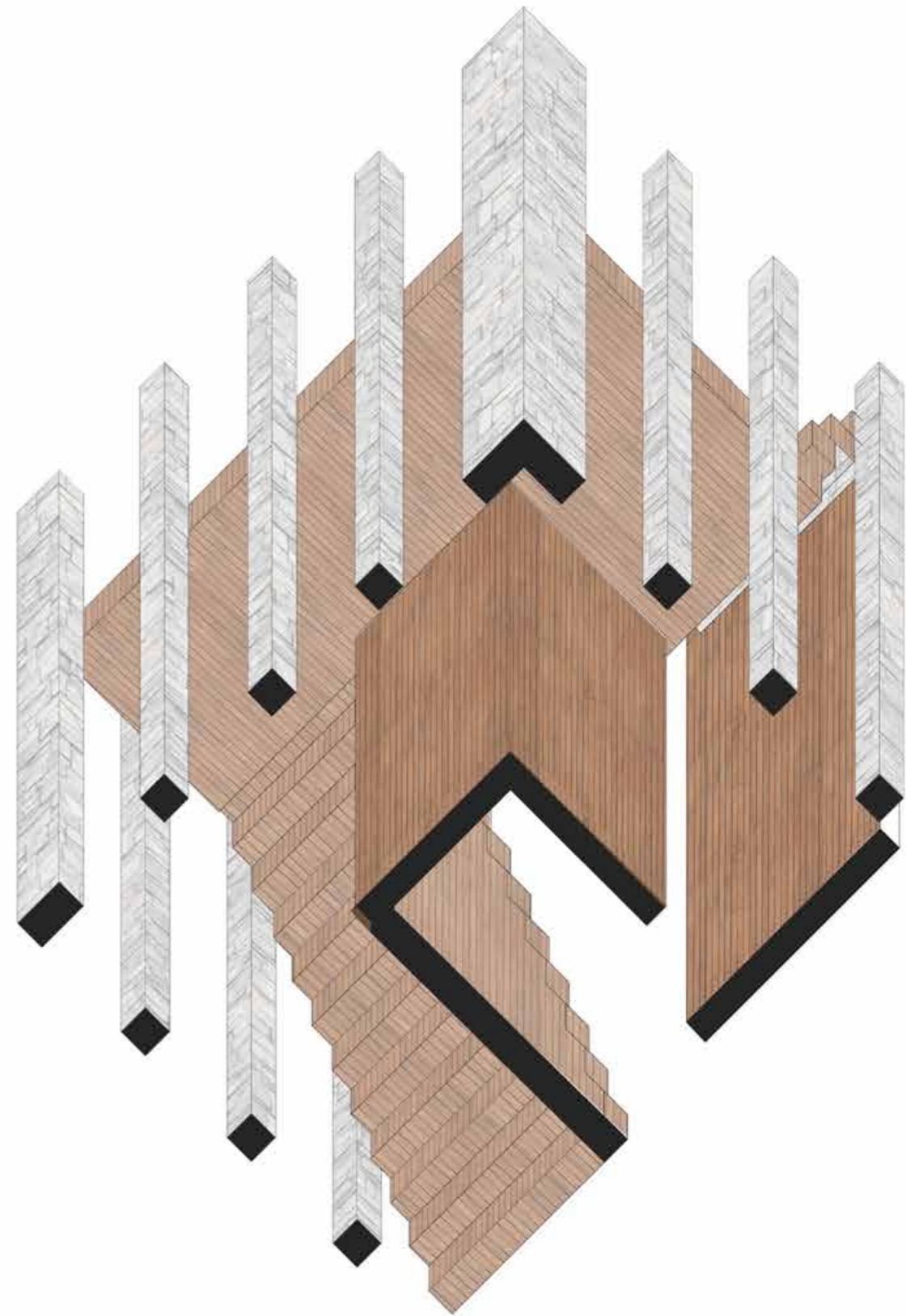
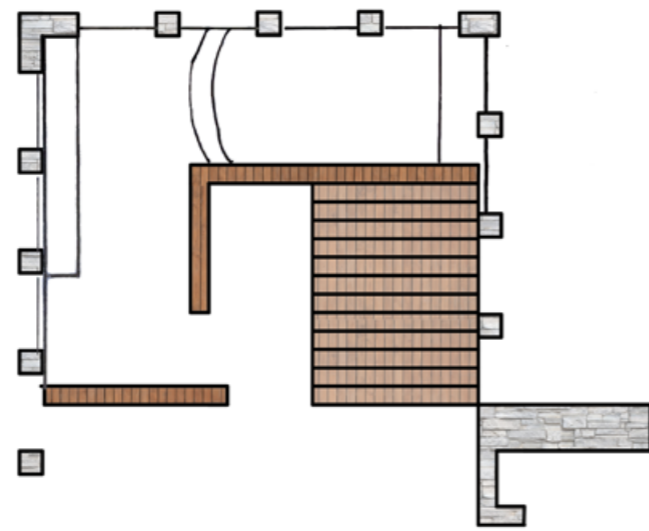
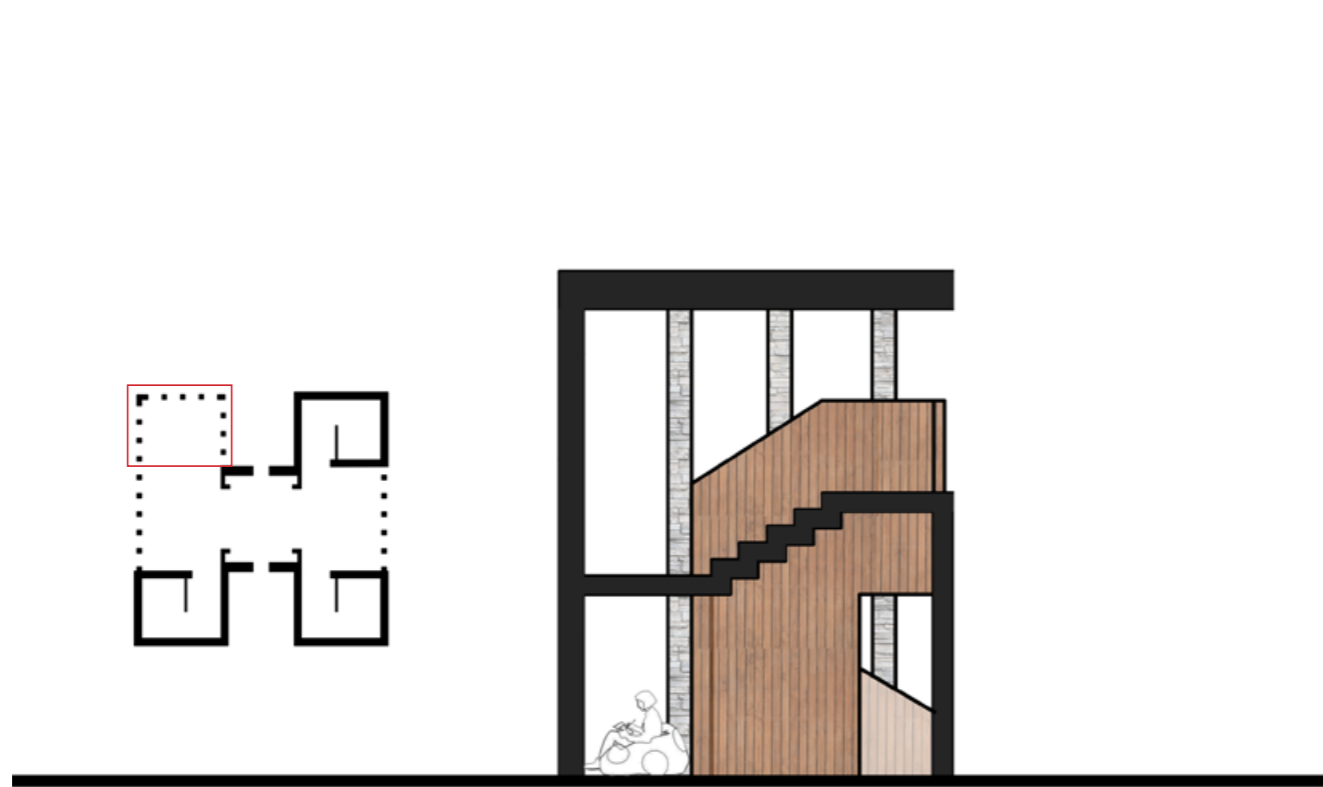
12pm



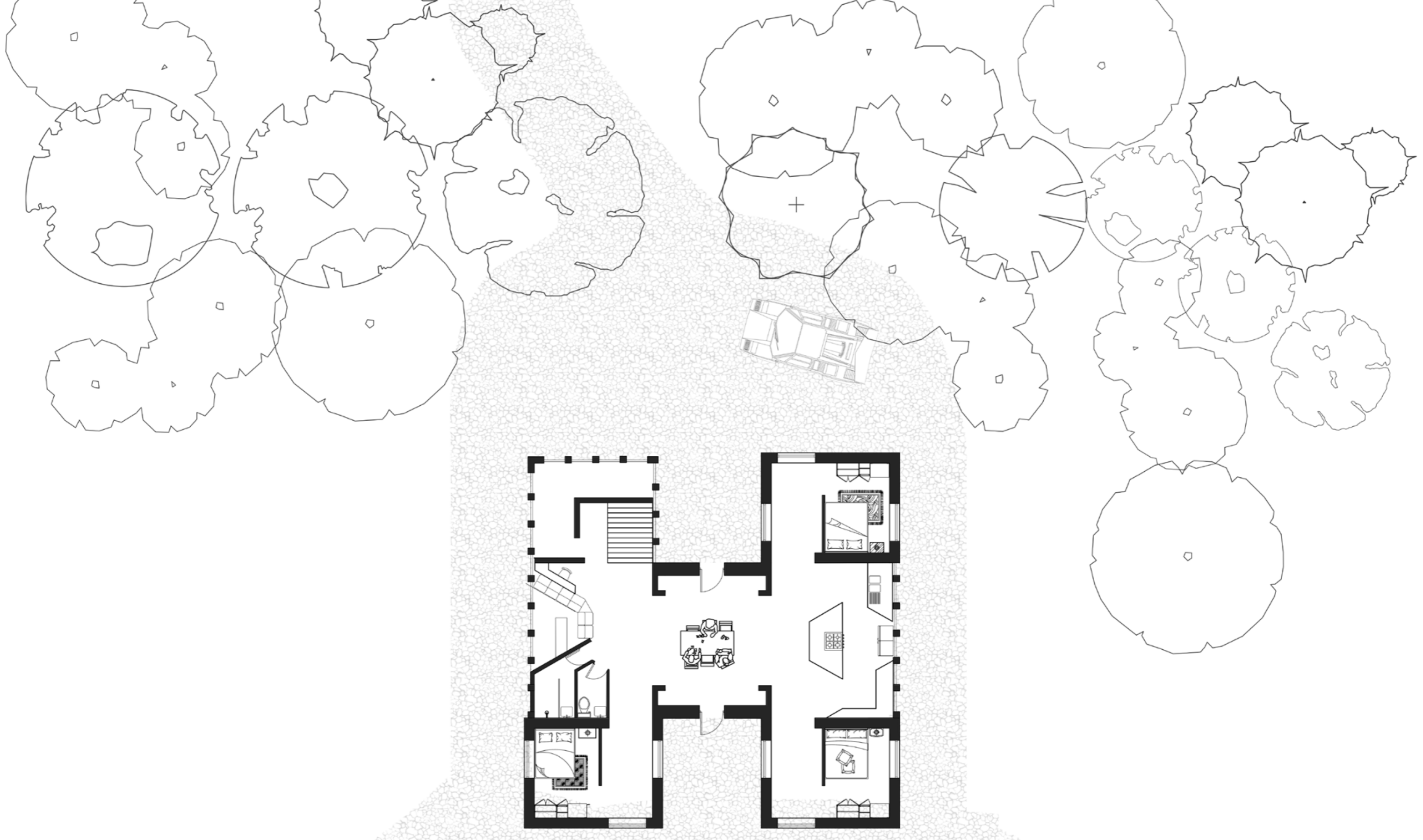
6pm

SHADOW STUDY

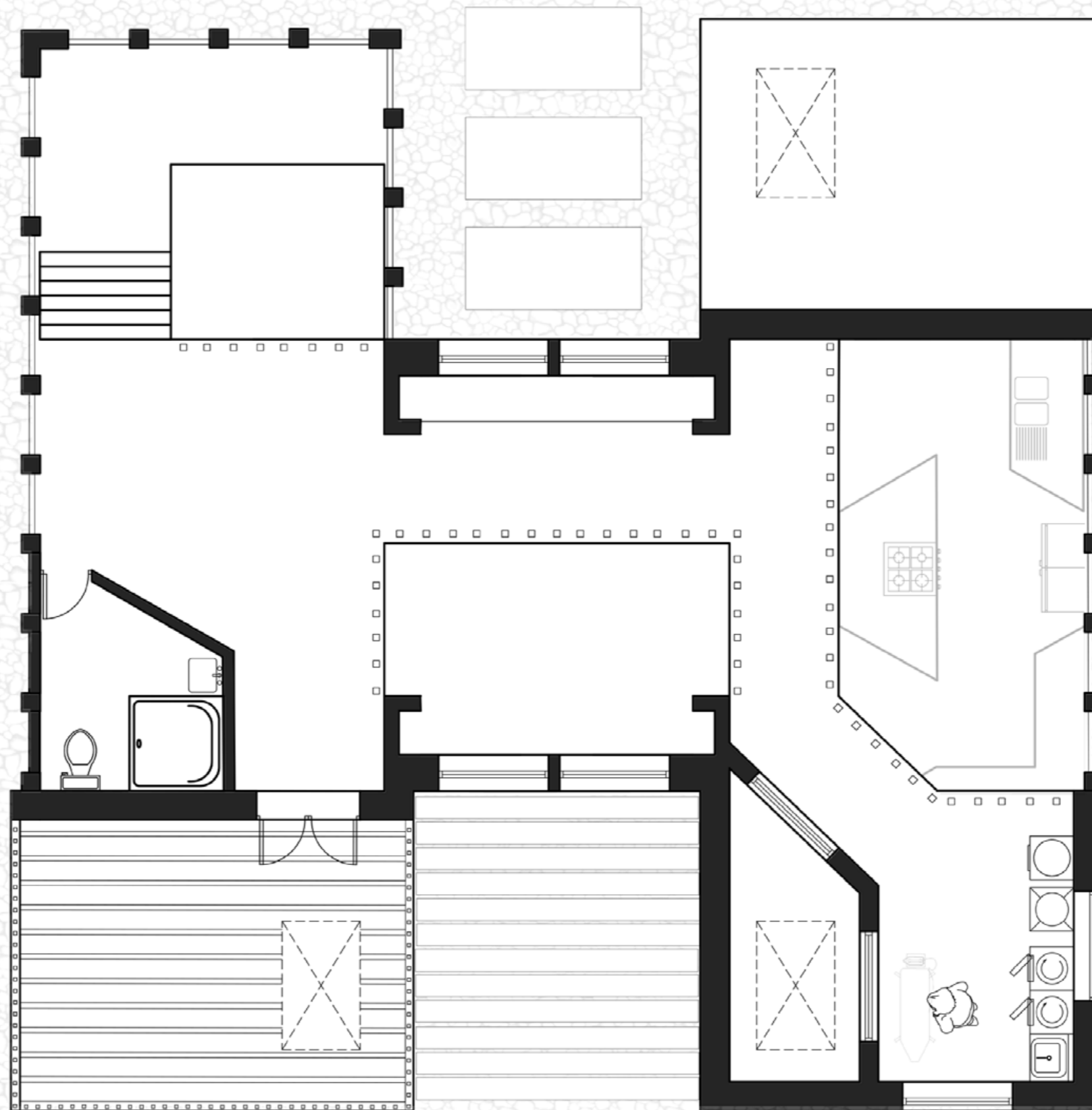




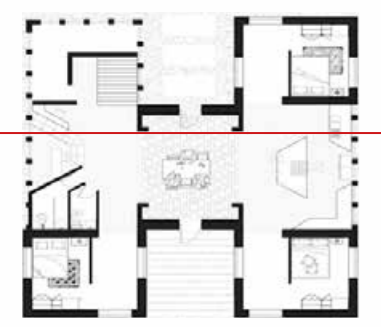
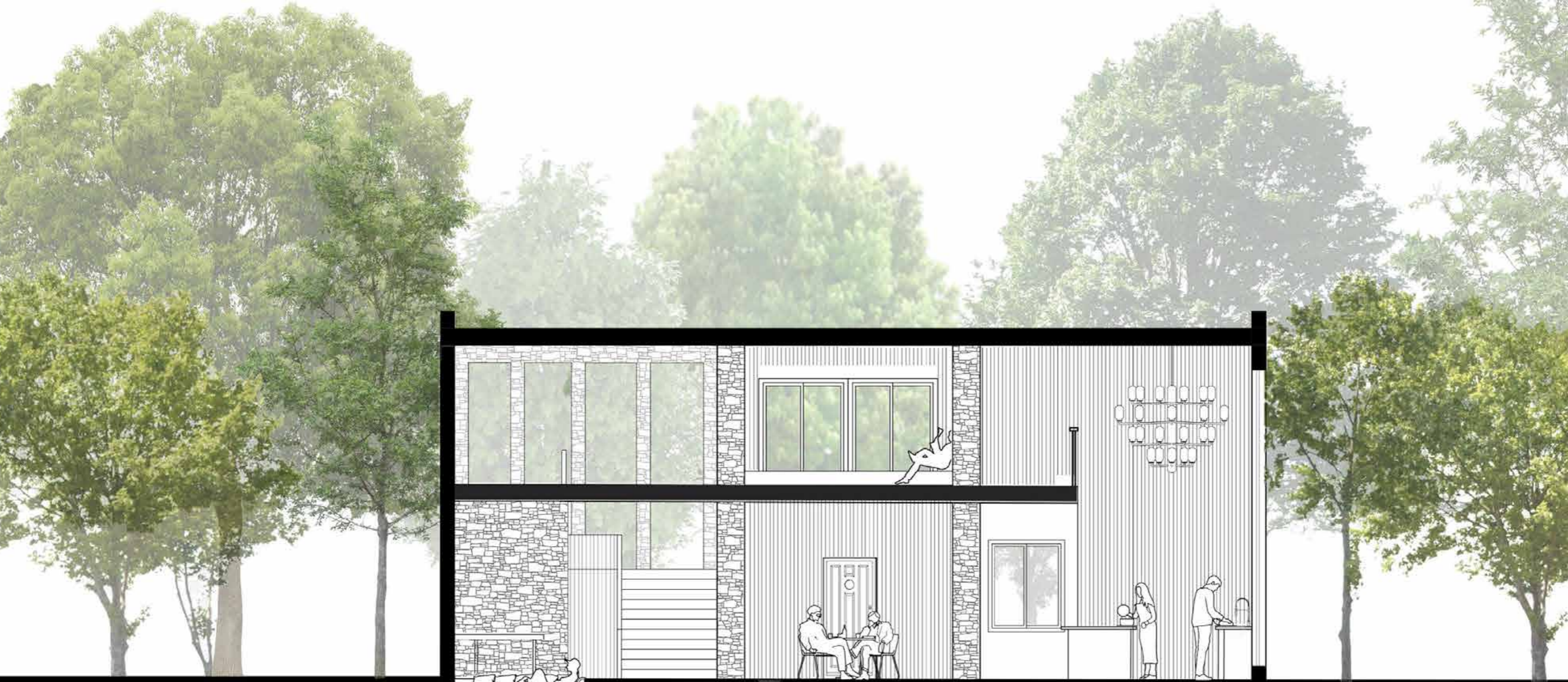
SNUG FRAGMENT

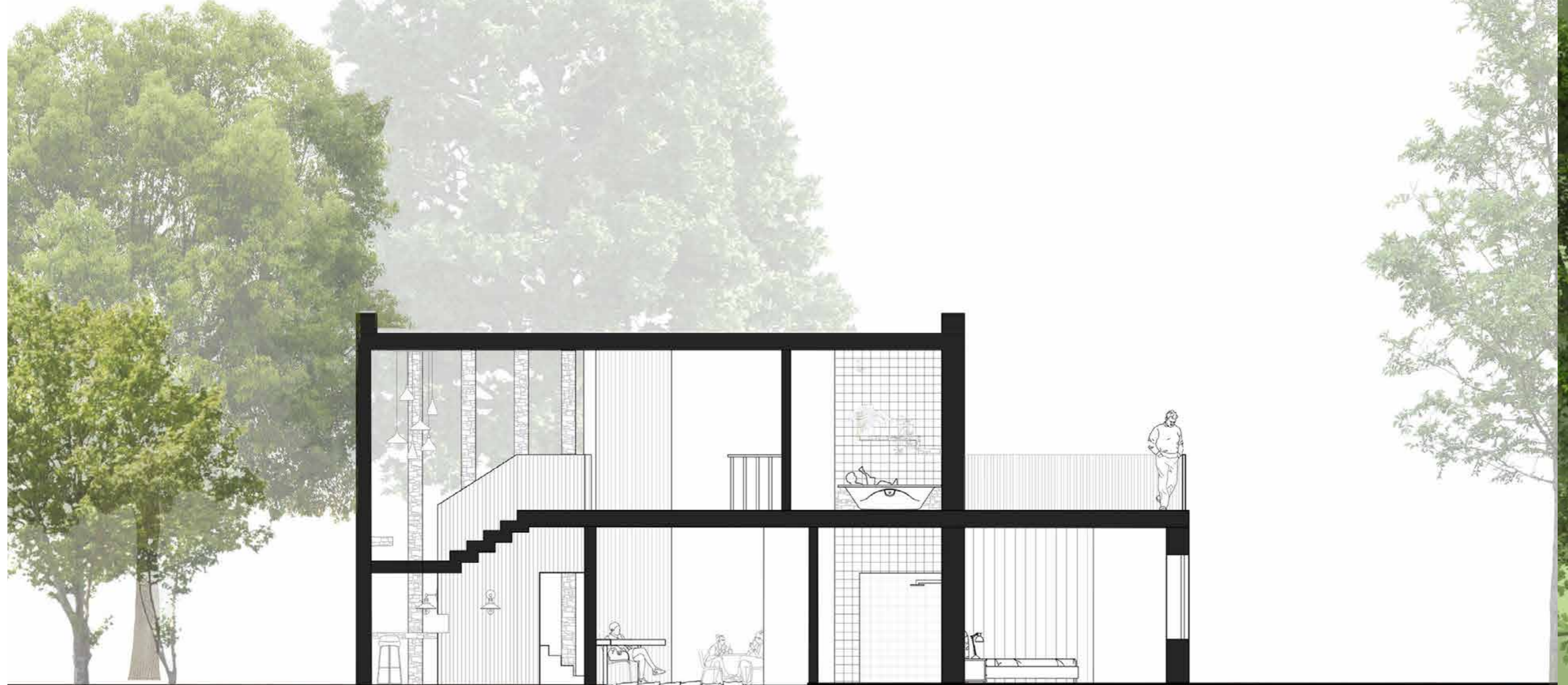


GROUND FLOOR PLAN



1ST FLOOR PLAN







SOUTH WEST
AXONOMETRIC

SCALE 1:100

THIRD YEAR
TERM TWO

INTERGENERATIONAL HOUSING BLOCK

FOR NOW, IT IS INEVITABLE THAT YOU WILL CONTINUE TO GROW OLD. BY 2050 THERE WILL BE MORE OVER PEOPLE OVER THE AGE OF 65 THAN UNDER THE AGE OF 16'S LIVING IN THE UK. THIS DEMOGRAPHICAL SHIFT IS CAUSING A RESHUFFLING IN THE PRIORITIES OF URBAN DESIGNERS AND ARCHITECTS ALONGSIDE POLICYMAKERS; TO HELP TACKLE THE ARGUABLY 'UNDERLYING AGE-ISM' THAT DOES CURRENTLY CHARACTERISE OLD AGE PENSIONERS AS PASSIVE VICTIMS OF DEVELOPING ARCHITECTURAL DEVELOPMENT AND URBANISATION. ALONGSIDE THIS THE YOUNGER GENERATIONS ARE SUFFERING FROM EXPENSIVE HOUSING AND LONG COMMUTES OR POOR WORKING FROM HOME CIRCUMSTANCES.

THIS PROJECT AIMS TO FOCUS ON CONNECTING ALL GENERATIONS WITHIN ONE BLOCK ALLOWING THEM TO CO-EXIST AND CREATE OPPURTUNITIES FOR EACH OTHER. GIVING THE CARE STAFF AND CITY WORKERS AN OPPURTUNITY TO WORK FROM HOME AND CLOSE TO WORK, WHILST GIVING THE ELDERLY THEIR RIGHT TO THE CITY BACK.



For all generations to share greenspaces potentially above the ground plane to promote the sense of community



For the care staff to have suitable working space. But also to promote other types of working spaces such as local businesses and co-working spaces.

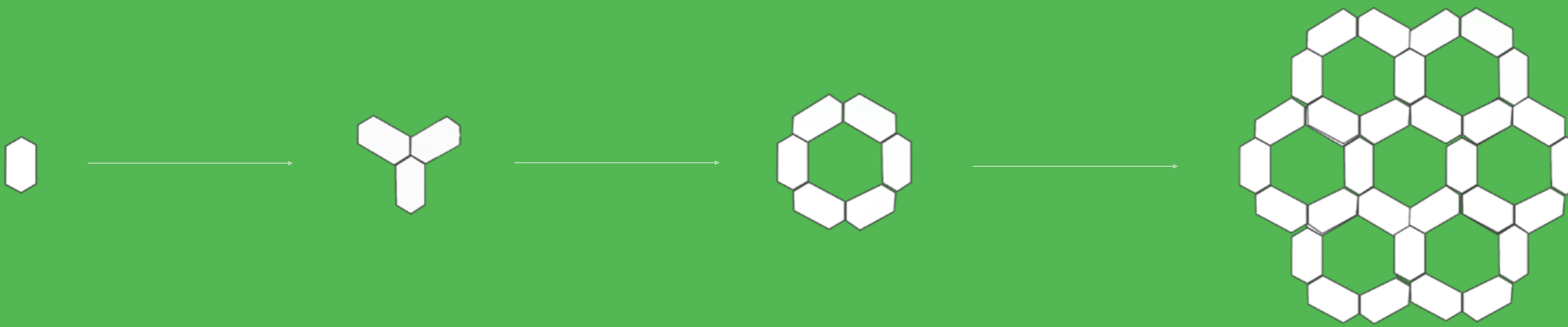


For the community of elderly people to live in 'family' like groups to boost independence. With additionally direct connection to the care services and the public realm

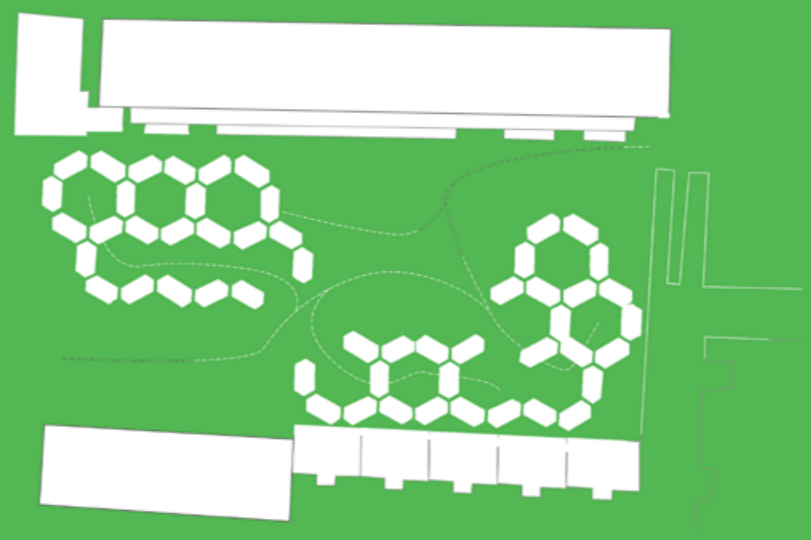
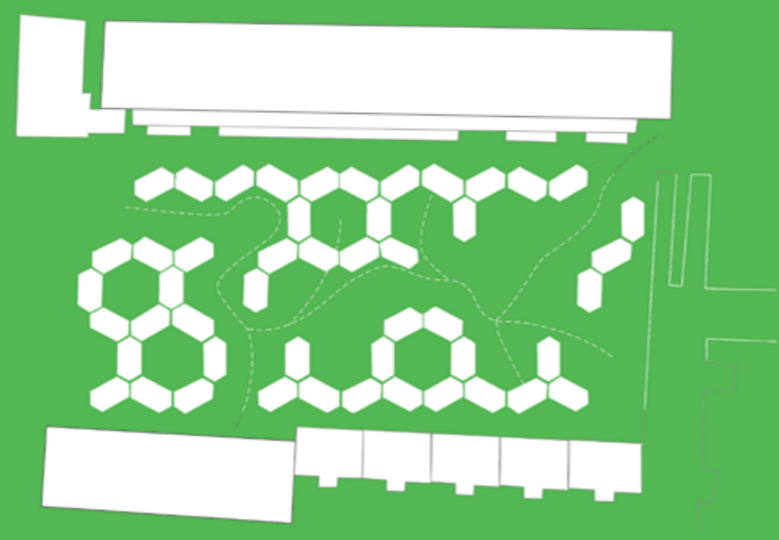


For all residents young and old to have a connection to the city through community access of various forms.

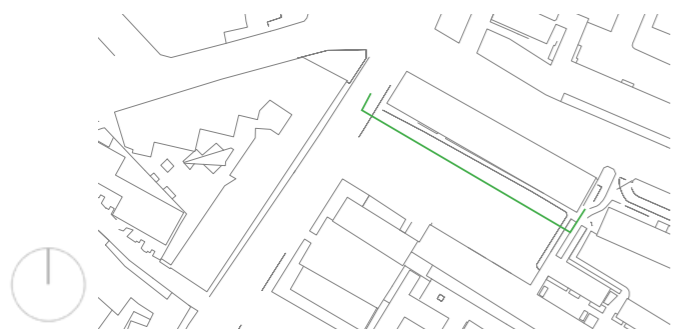
AXONOMETRIC PROGRAMME DIAGRAM



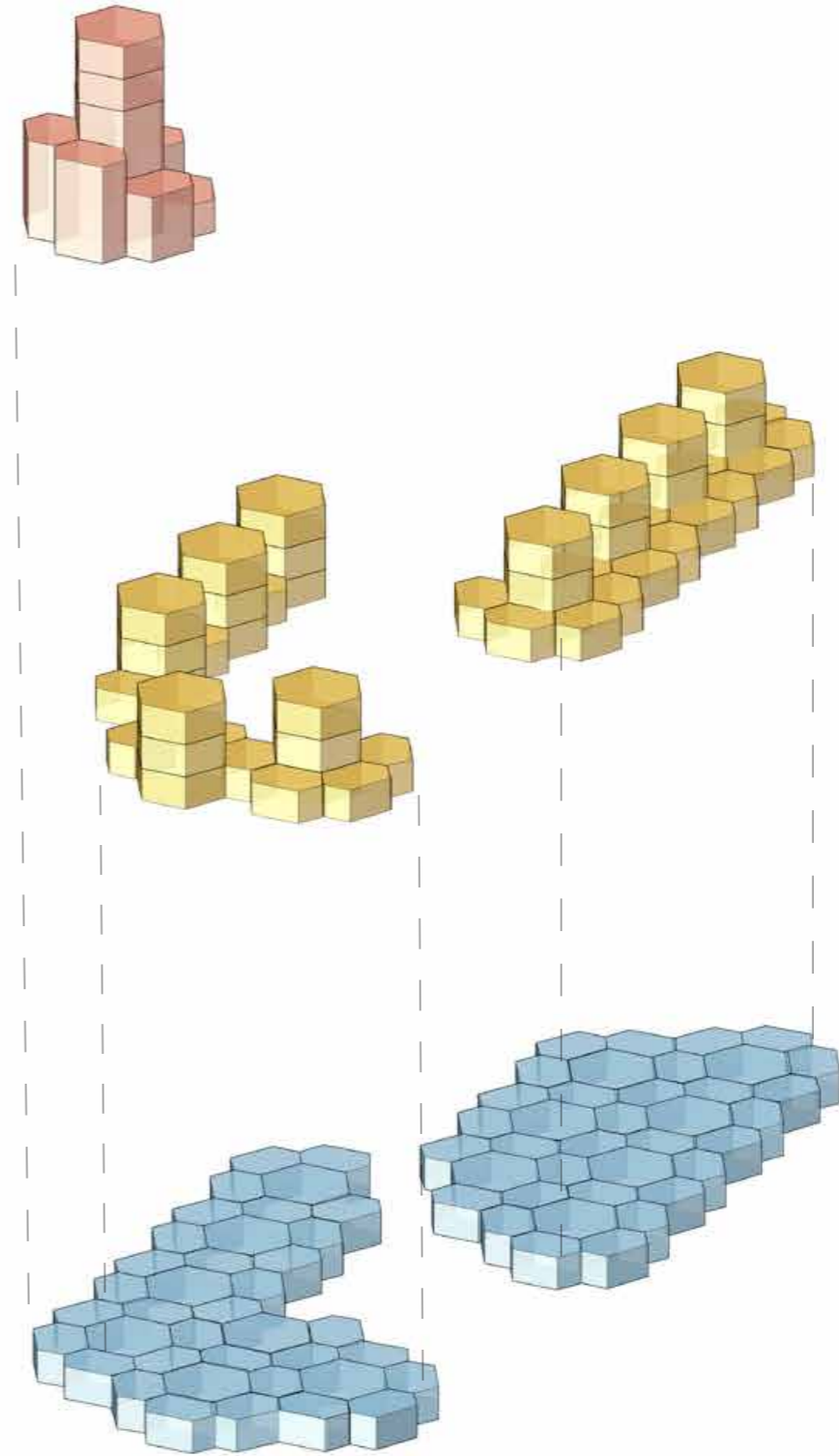
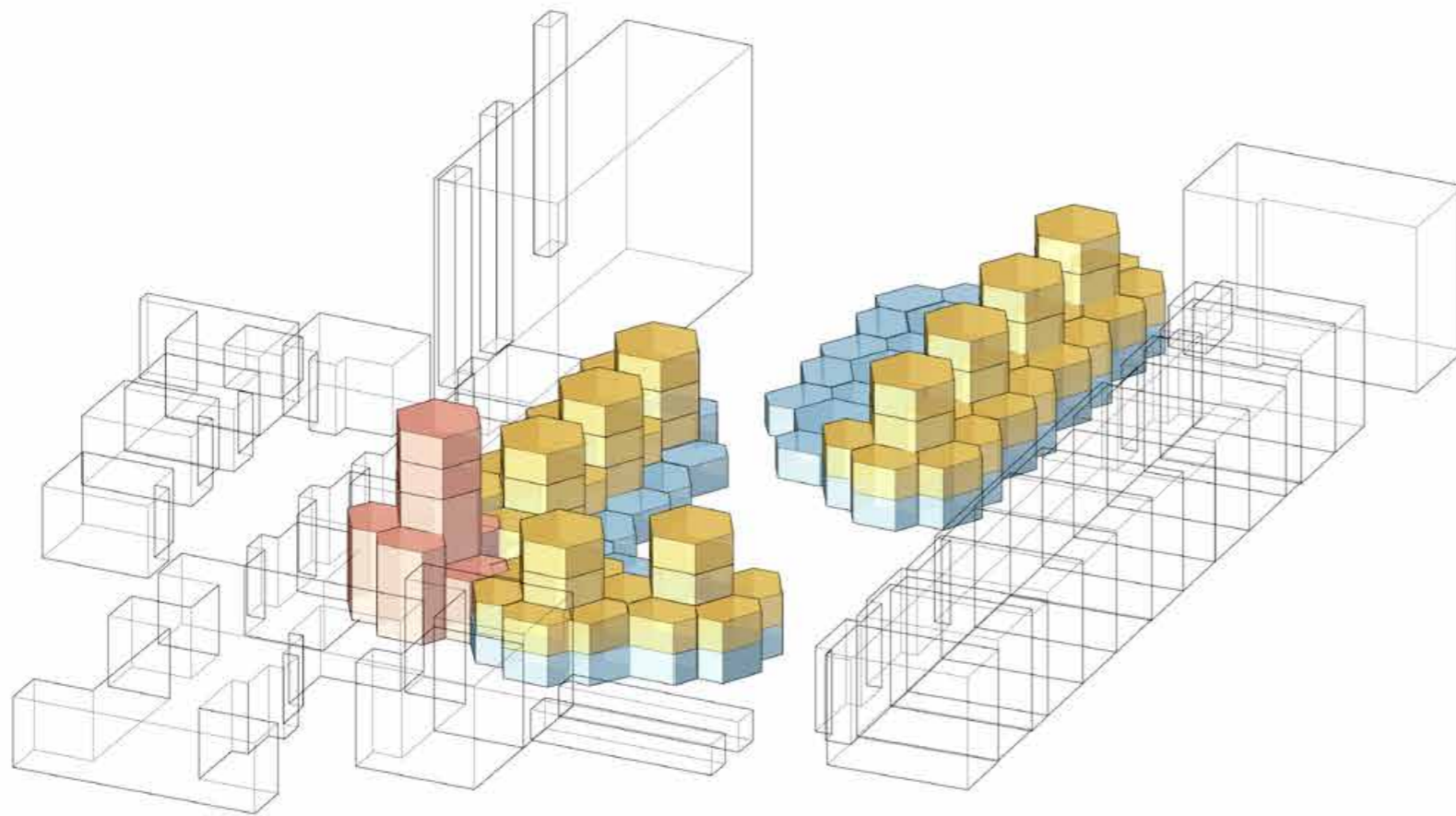
INVESTIGATING
NATURAL FORMS



CREATING FORMS



SITE JOINERS

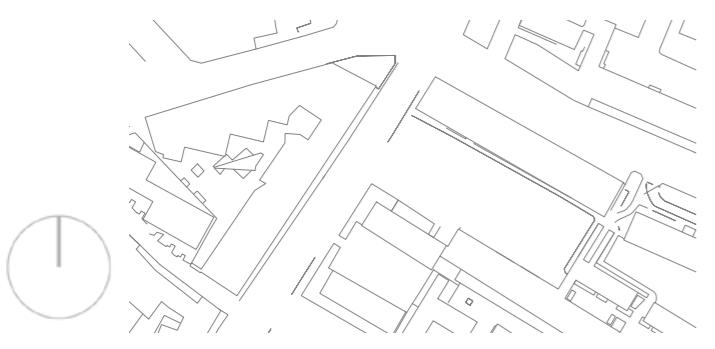


Residential Care Home Dwellings Work

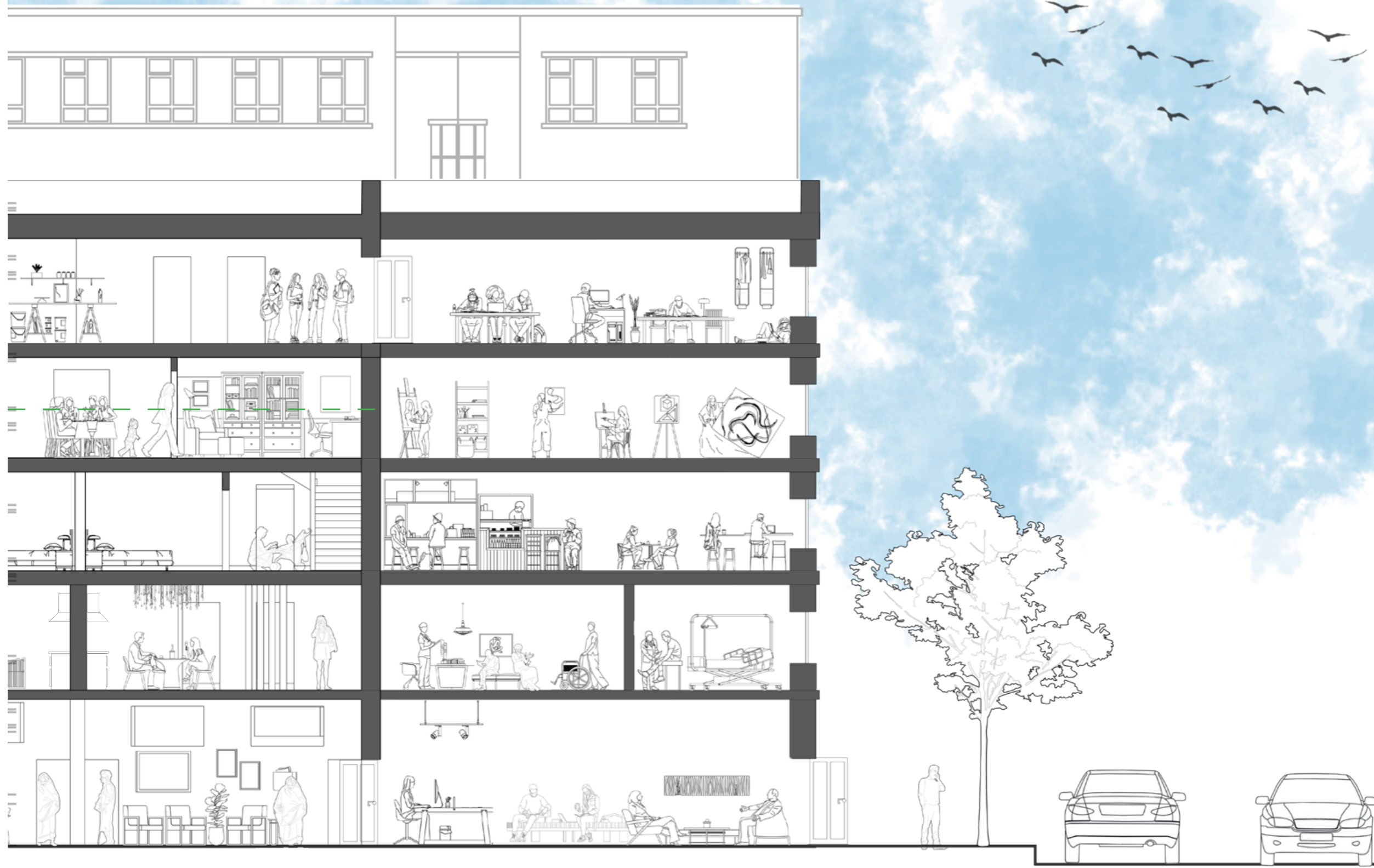
HEIRARCHY OF PROGRAMME



**ENTRY SEQUENCE AND
CARE HOME SECTION**



DWELLINGS SECTION



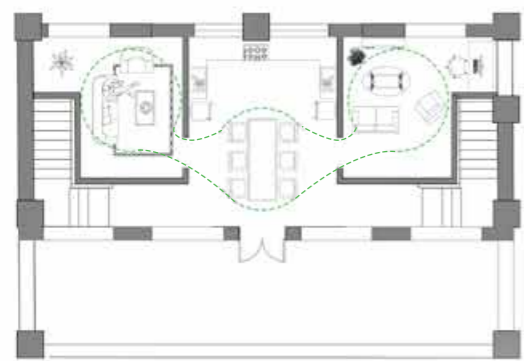
Communal Office

Open Working Creative Space

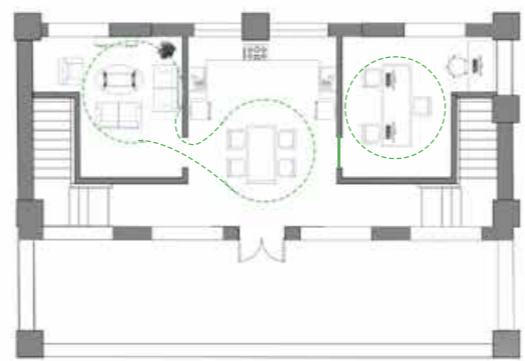
Cafe or Resturant

Care Home Facilities

Entrance and care home facilities



Co-Living

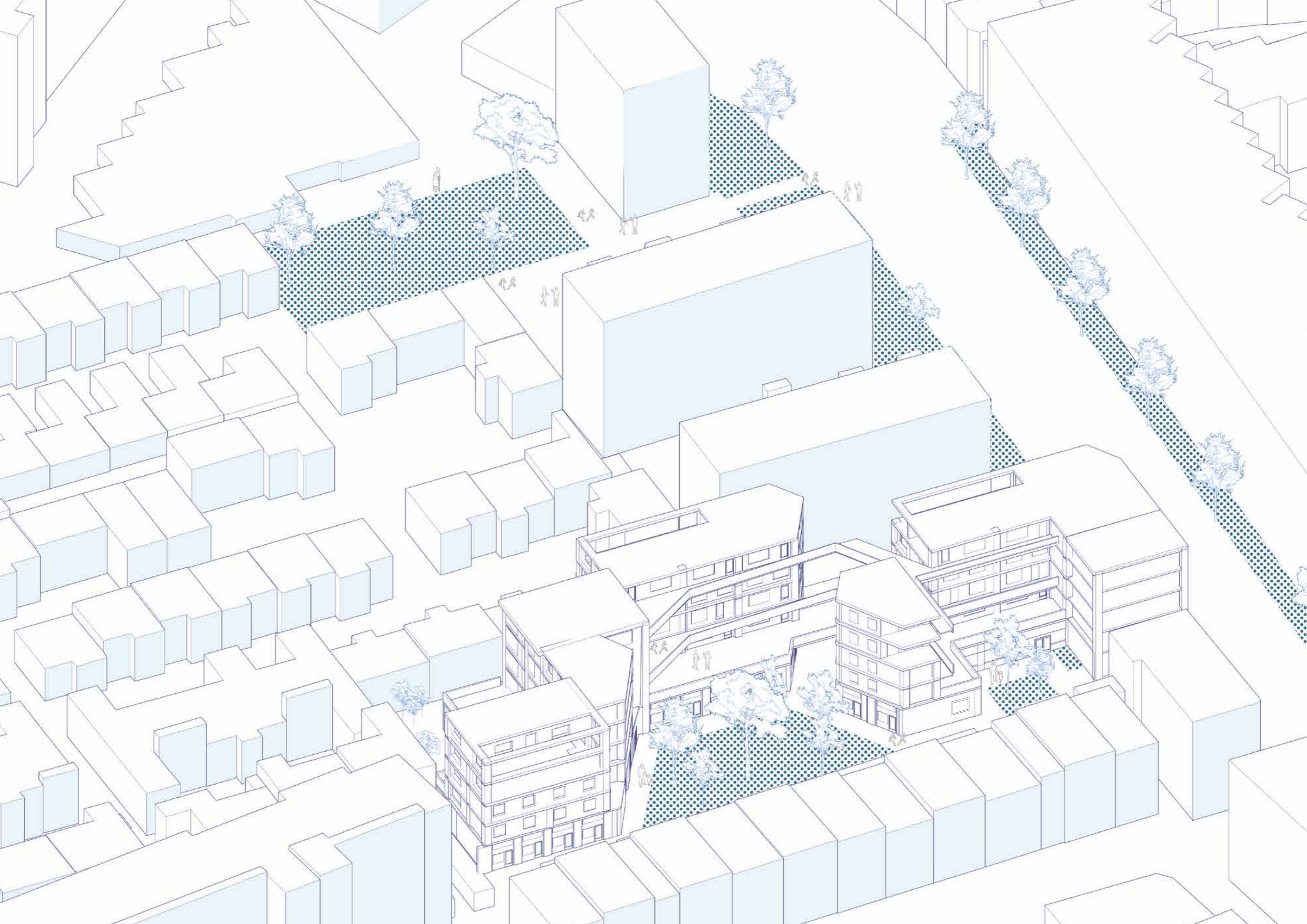


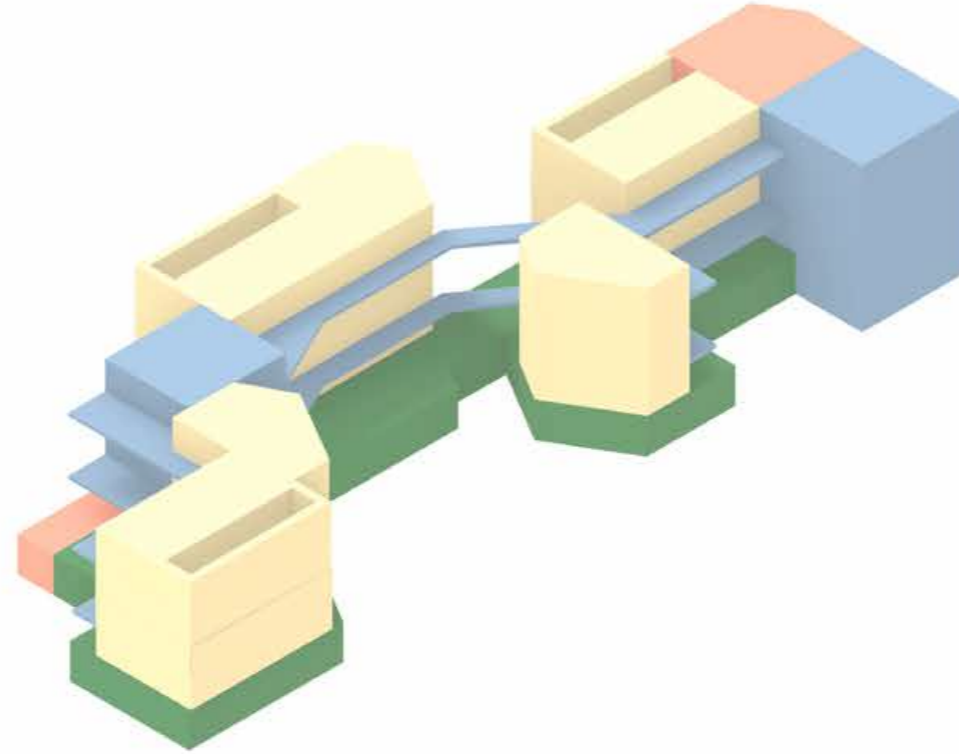
Co-work



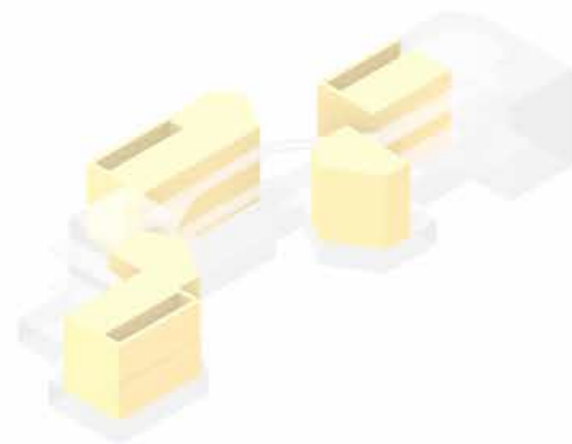
Work from Home

THE LIVE WORK RELATIONSHIP

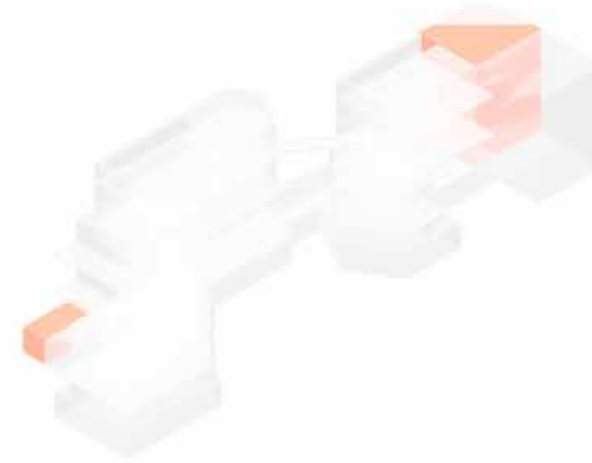




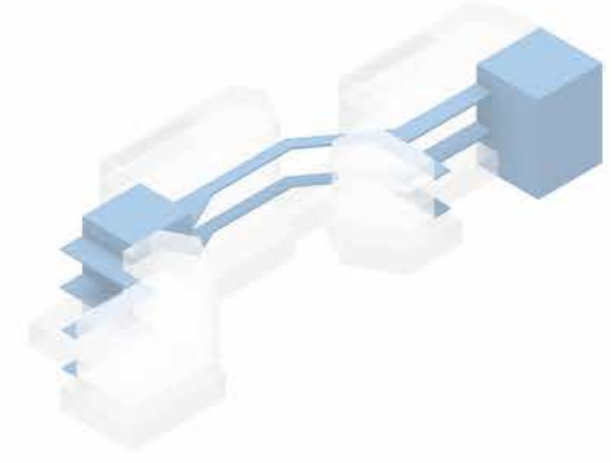
RESIDENTIAL CARE HOME



DWELLINGS



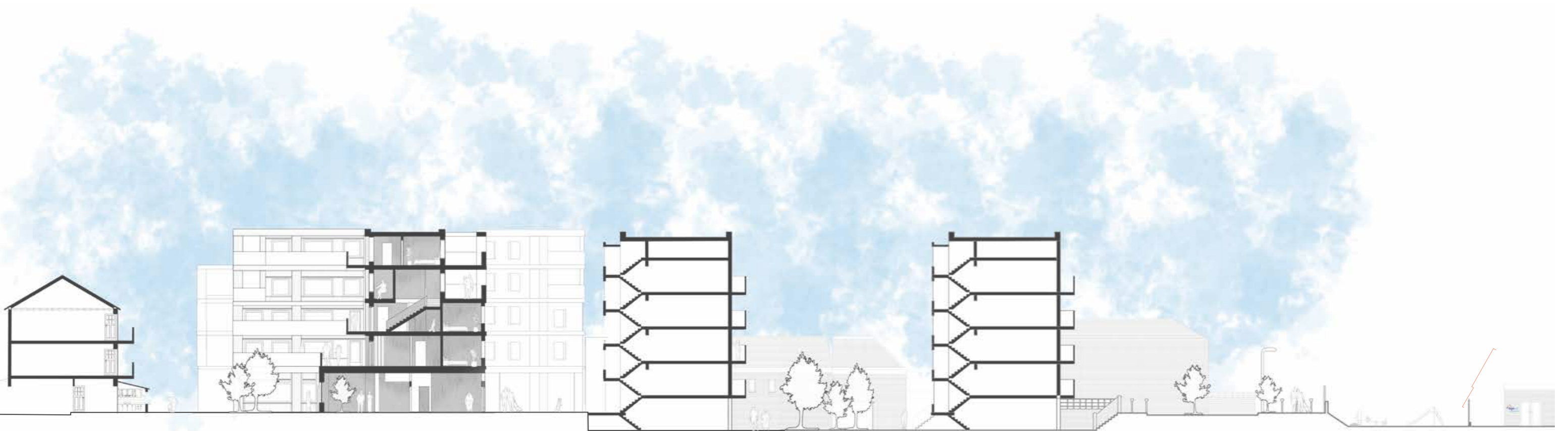
WORK



CIRCULATION



**GROUND
FLOOR
PLAN**



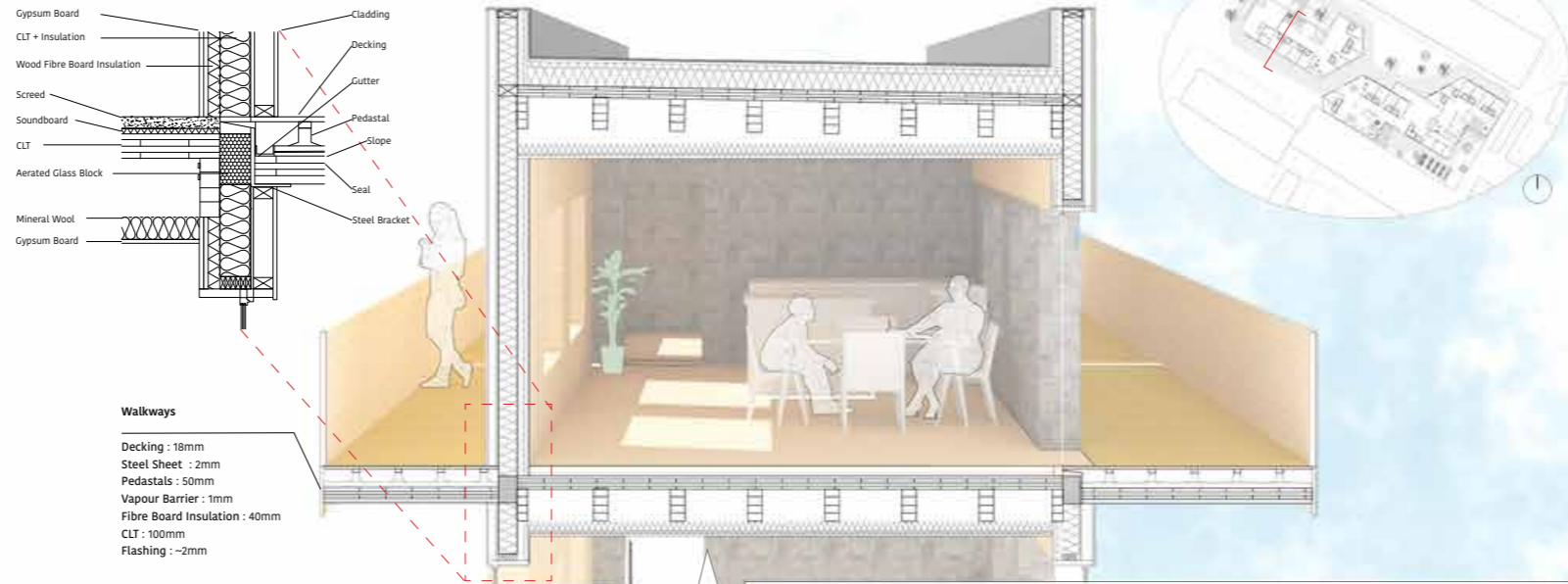
**CONNECTING THE
SITES**



LIVE WORK SECTION

**AD672 TECHNOLOGY SECTION
HARVEY DUNN**

This section outlines the material, structural and environmental strategies I am applying for my Live/Work intergenerational housing block in Southwark. It is all about connection, to each other people and nature so the construction strategy had to match.



**CONSTRUCTION PYRAMID
CALCULATIONS**

**External CLT Walls
Primary Strategy**

- Stone Cladding : 40mm
- External Board : 8mm
- Wind Barrier : 8mm
- Timber Frame + Insulation : 145mm
- Vapour Barrier : 1mm
- Fibre Board Insulation : 48mm
- Gypsum Board : 18mm

Total Embodied Carbon

-241.02 kgCO₂eqm³

**External CLT Walls
Alternative Strategy**

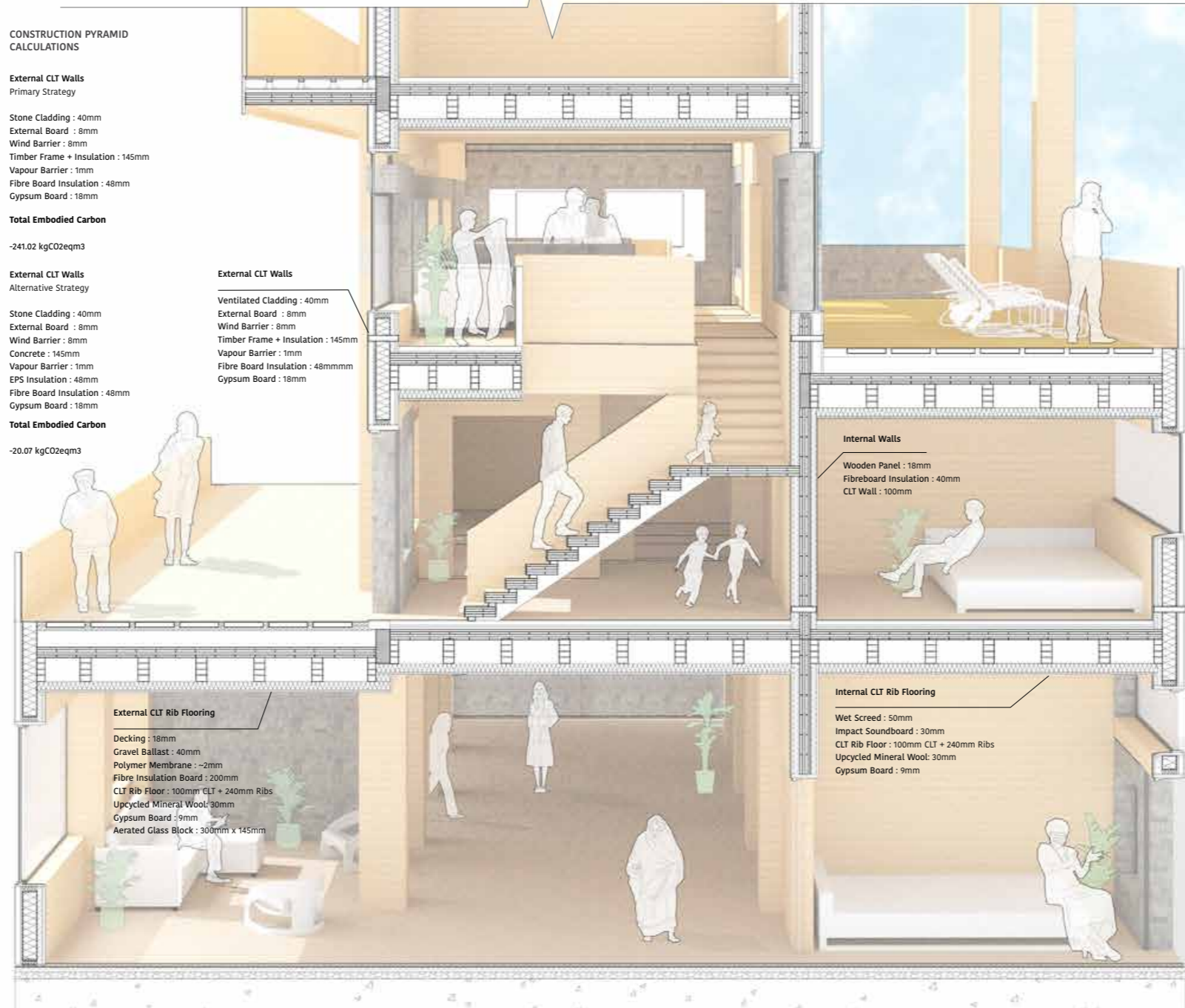
- Stone Cladding : 40mm
- External Board : 8mm
- Wind Barrier : 8mm
- Concrete : 145mm
- Vapour Barrier : 1mm
- EPS Insulation : 48mm
- Fibre Board Insulation : 48mm
- Gypsum Board : 18mm

Total Embodied Carbon

-20.07 kgCO₂eqm³

External CLT Walls

- Ventilated Cladding : 40mm
- External Board : 8mm
- Wind Barrier : 8mm
- Timber Frame + Insulation : 145mm
- Vapour Barrier : 1mm
- Fibre Board Insulation : 48mm
- Gypsum Board : 18mm



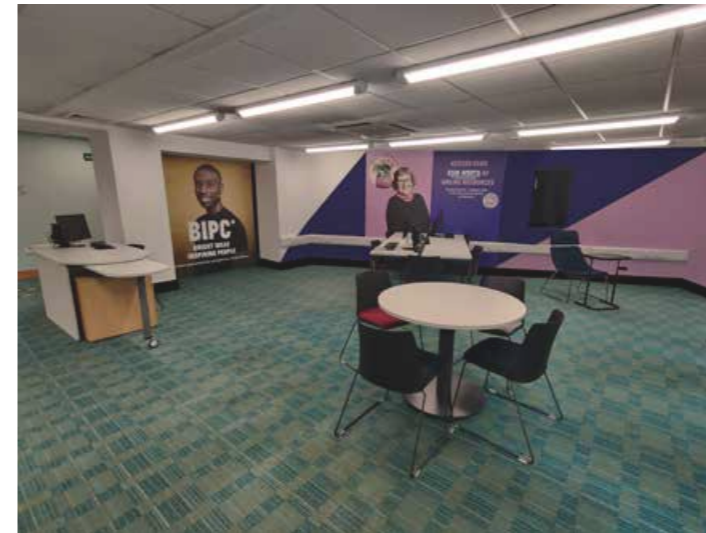


VIEW TO MAIN ENTRANCE



VIEW FROM DECK

FREELANCE WORK



HUNTINGDON BIPC

OPTION F4

General Notes:

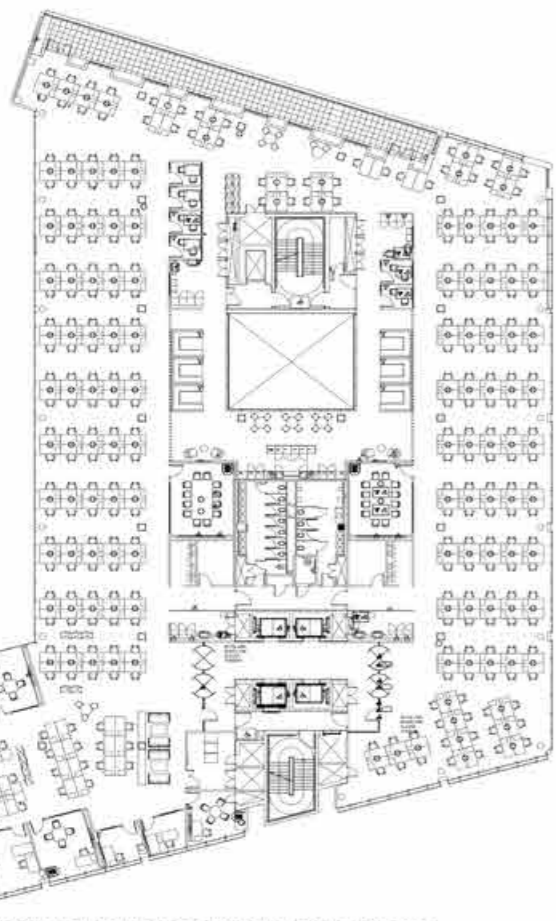
MOVEABLE ACOUSTIC SCREENS TBC

- EXISTING CABINETS 3 HIGH
- EXISTING CABINETS 4 HIGH

ACCOMMODATIONS SUMMARY

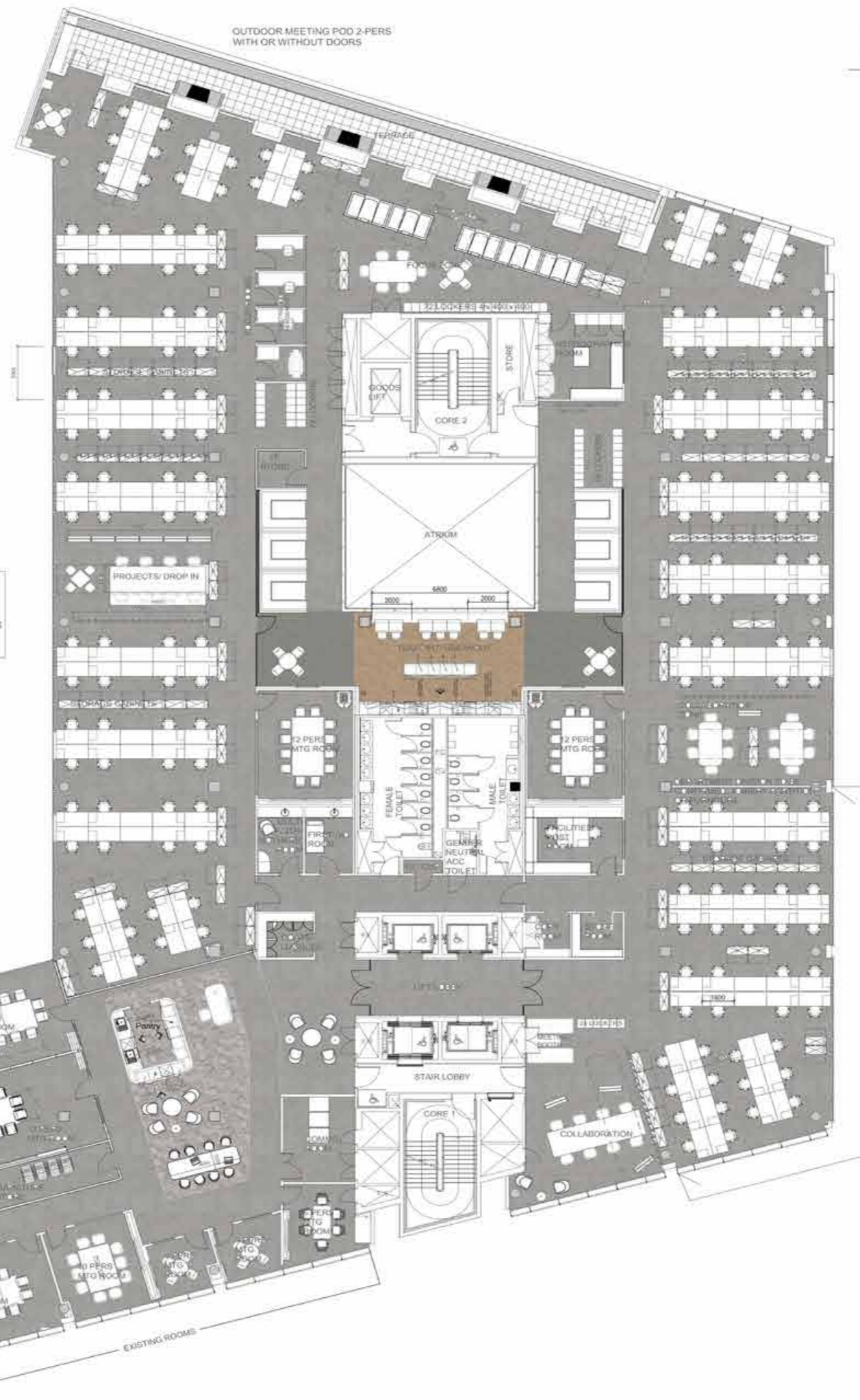
- 170 DESKS
- 34 COLLAB/ DROP IN
- 1 x 16 PERS MEETING ROOM
- 2 x 14 PERS MEETING ROOMS
- 2 x 12 PERS MEETING ROOMS
- 1 x 10 PERS MEETING ROOM
- 1 x 6 PERS MEETING ROOMS
- 2 x 4 PERS MEETING ROOMS
- 3 FOCUS ROOMS
- 232 LOCKERS

MAX PAX:
240 DESKS

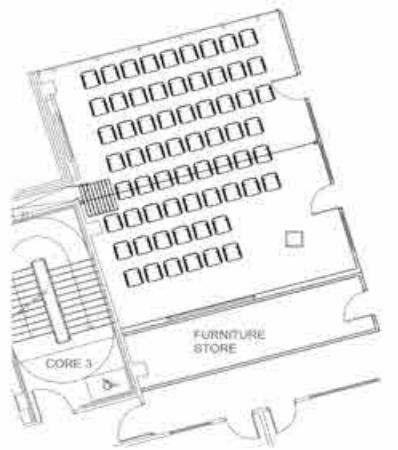


BRIDGEWATER HOUSE EXISTING 3RD FLOOR

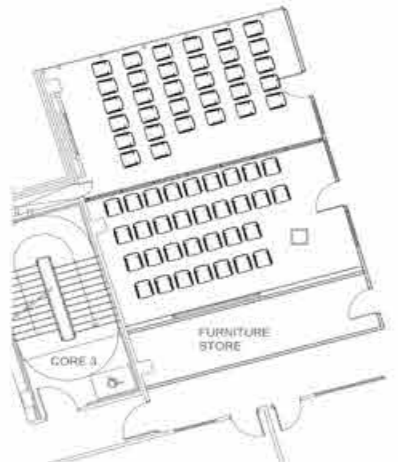
WEST SIDE
80 DESKS
MAX PAX DESKS
INCREASE TO
112



EAST SIDE
90 DESKS
MAX PAX DESKS
INCREASE TO
128



MEETING SUITE FOLDING WALL OPEN SEMINAR SETTING - 64 SEATS



MEETING SUITE FOLDING WALL CLOSED SEMINAR SETTING - 64 SEATS

DEPARTMENT OF 40

- New Neutral Carpet Tile
- New Timber Chevron Vinyl Flooring
- New Light Grey Reception Carpet Tile

| Rev | Date | Description |
|-----|----------|--|
| F4 | 9 JUNE21 | Revision to reception layout and restrooms. |
| F2 | 7 JUNE21 | Revision to reception layout and restrooms. |
| F2 | 4 JUNE21 | Optional reception layout. |
| F | 4 JUNE21 | Change to reception layout and meeting room. |
| E1 | 3 JUNE21 | TEST FIT 9 FOR COMMENT |
| E | 28 MAY21 | TEST FIT 7 FOR COMMENT |
| D1 | 17 MAY21 | TEST FIT 6 D1 FOR COMMENT |
| - | 04 MAY21 | TEST FIT 6 (C4) FOR COMMENT |
| - | 25 APR21 | TEST FIT 4 (C3) FOR COMMENT |
| - | 22 APR21 | TEST FIT 3 (C2) FOR COMMENT |

FOR COMMENT

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Project:
RPC
BRIDGEWATER HOUSE

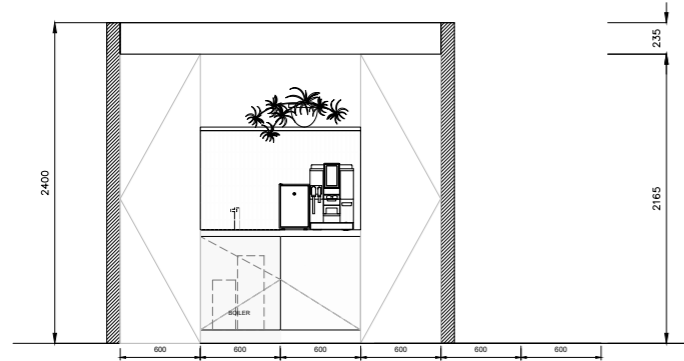
Drawing Title:
3RD FLOOR
GENERAL ARRANGEMENT PLAN

Job No. 7-2053
Drawn By: AJ
Checked By: CM
Project Date/Time: 05-03-21

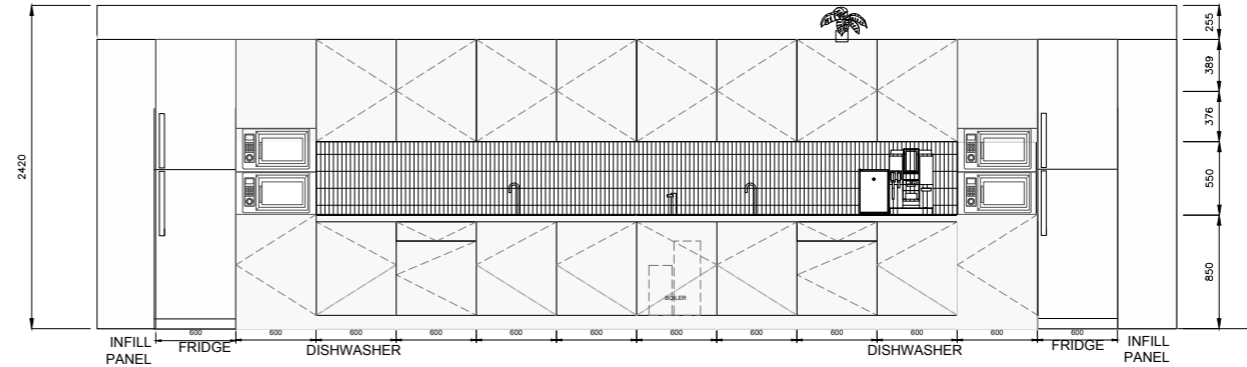
Scale: 1:100 @ All
Job No. 7-2053
Drawn By: AJ
Checked By: CM
Project Date/Time: 05-03-21

OPTION H DRINK POINTS

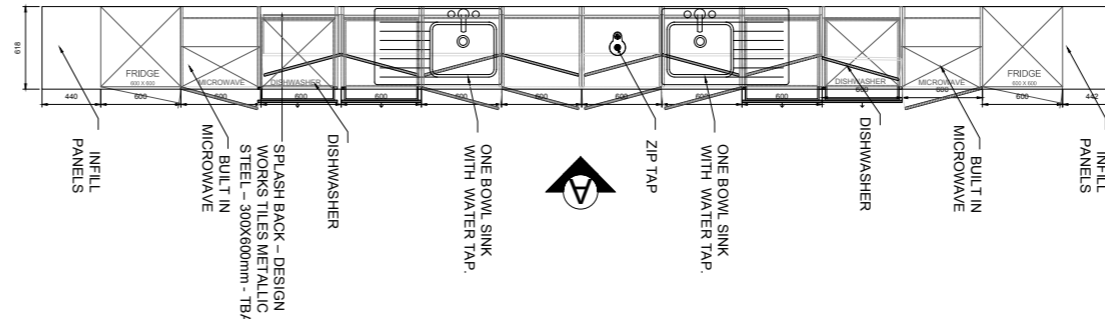
General Notes:



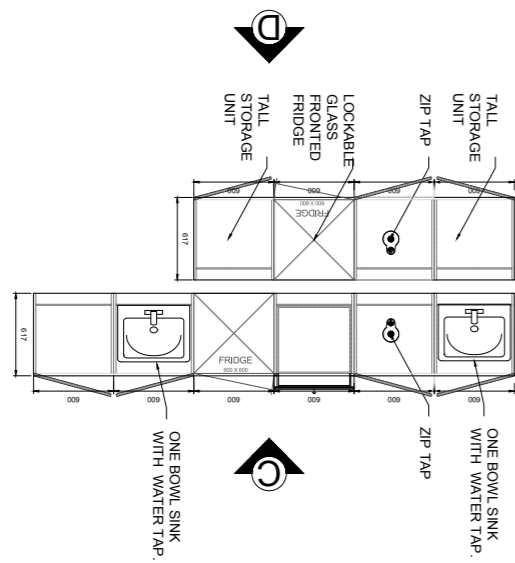
BRIDGEWATER HOUSE GUEST DRINKS POINT ELEVATION "D-D"



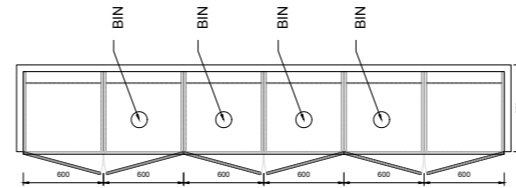
BRIDGEWATER HOUSE STAFF TEAPOINT ELEVATION "A-A"



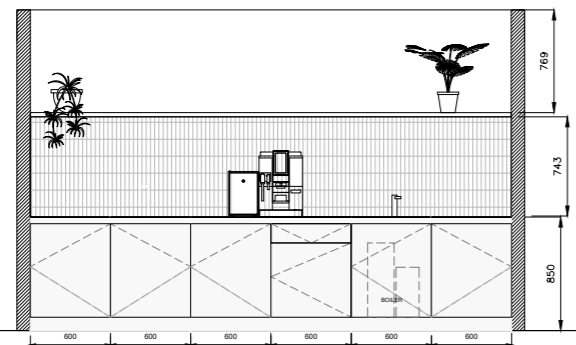
BRIDGEWATER HOUSE STAFF TEAPOINT PLAN



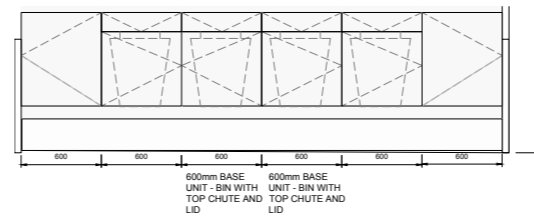
BRIDGEWATER HOUSE STAFF PANTRY PLAN



BRIDGEWATER HOUSE STAFF TEAPOINT ISLAND PLAN



BRIDGEWATER HOUSE STAFF PANTRY ELEVATION "C-C"



BRIDGEWATER HOUSE STAFF TEAPOINT ISLAND ELEVATION "B-B"

| Rev | Date | Description |
|-----|------|-------------|
| | | |
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FOR COMMENT

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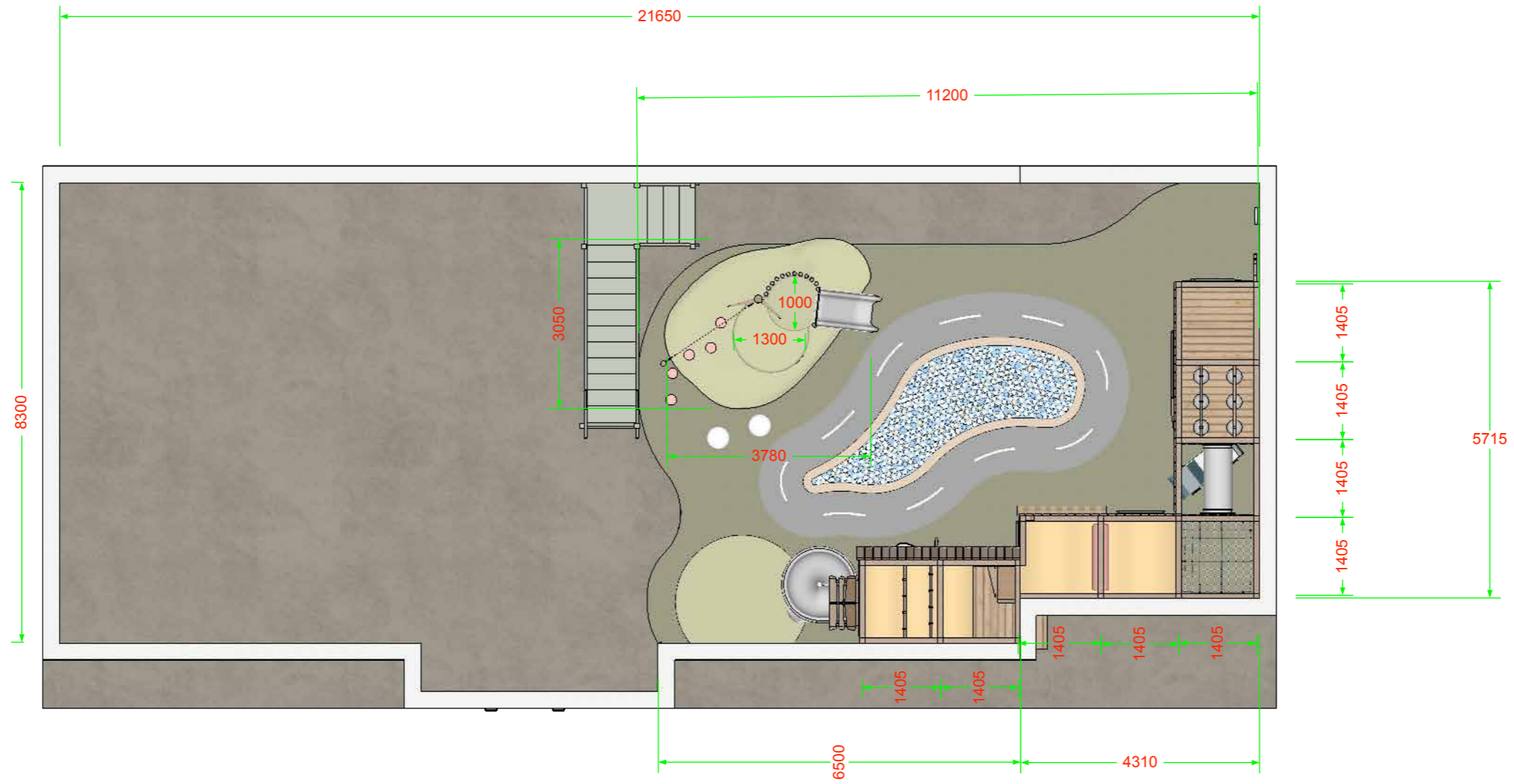
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Project:
RPC
BRIDGEWATER HOUSE
BRISTOL

Drawing Title:
3RD FLOOR
GENERAL ARRANGEMENT PLAN

Job No.: **7-2053** Dwg. No.: **05-03** Rev: **G**

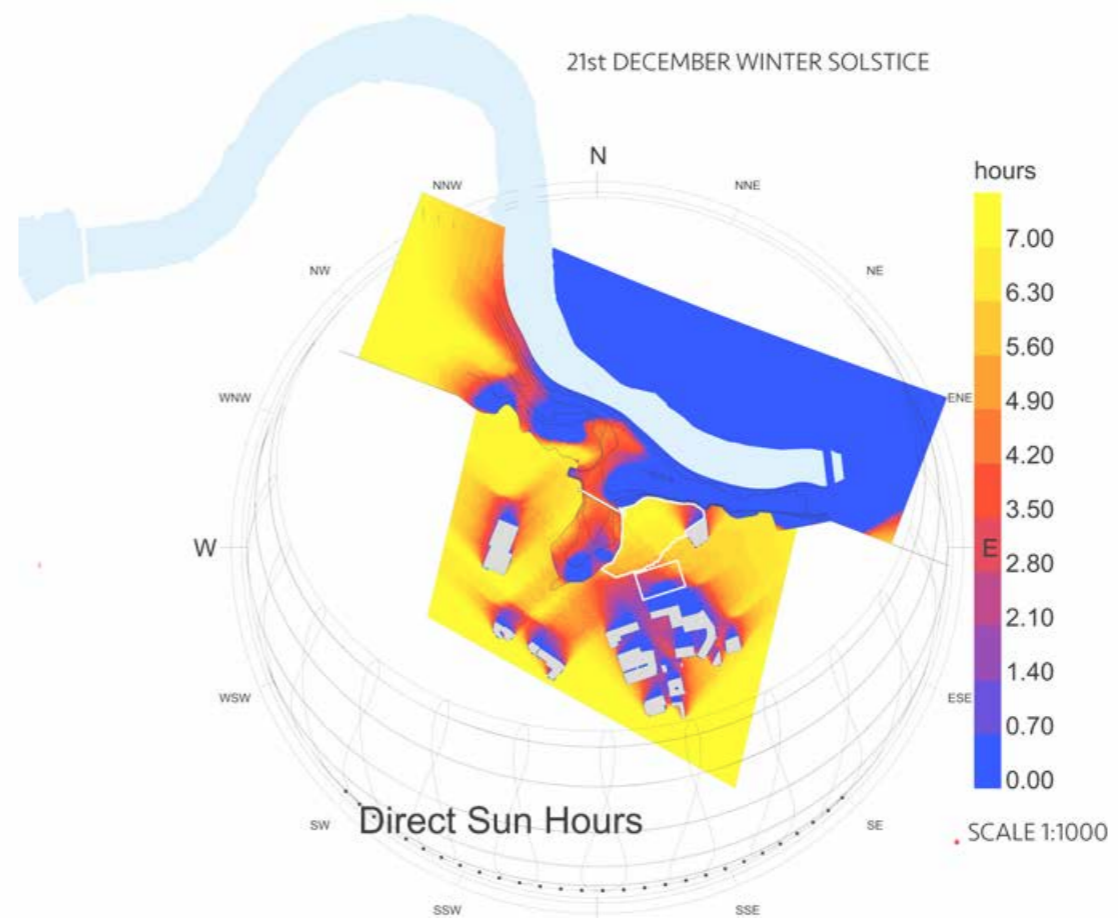
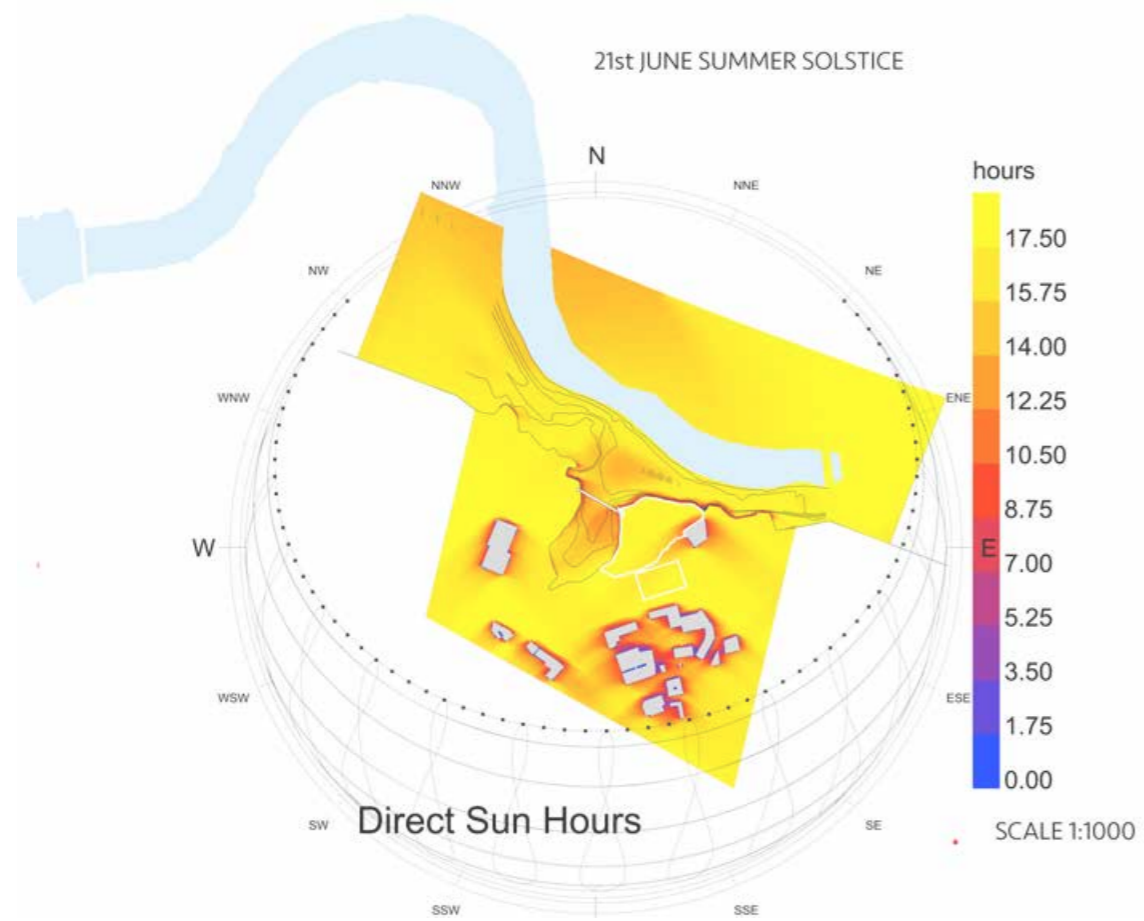
Scale: **1:100 @ A0** Drawn By: **AJ** Checked By: **CM**
Cad File Name: **PROJECTS\BRIDGEWATERHOUSE\RPC\03-05-05-03-01.dwg** Print Date/Time:



MINI VILLAGE PLAN; A4 @ 1:100

MINI VILLIAGE FLOOR PLAN

**ROYAL SUNDERLAND
UNIVERSITY
COMPRTITION**



LADYBUG SITE ANALYSIS

MASTER PLAN

The design concept regarding the layout of the units was based on a grid, with an L shaped unit with a garden, that is then mirrored to combine the gardens of two neighbours, creating a larger space. We have then mirrored these two units again, this time leaving a box in between them to create a path. This resulted in a small open space between each four units. We then decided to investigate ways in creating a hierarchy of open spaces where we decided to use small open spaces, which lead to medium open spaces which led to one main open space. This resulted in a very uniform structure that obeys the grid structure. Therefore, to contrast this 'neatness', we began shifting units, making them out of phase and rotating them in ways that open up paths between units and create open spaces on the way. The pathways are designed to have circles at rotation points or cross over points, this so that the pathways, narrow away from the windows of units of as well as blur into one path, to increase the changes of the residents running into each other, communication and creating a village like atmosphere. There is a nearly straight road facing the back of units that goes around the site, which cyclists could use. The skylights are available for rooms that do not have access to side walls, allowing a more equally distributed amount of sunlight across various units. There's grass on the roof, and therefore to contrast the roof grass from the ground green spaces, we have kept them as white negative spaces. Finally, to keep the contrast of organic/ 'messiness' and neatness, we have kept some pillars from the grid structure visible to marking out the territories of semi-private gardens.

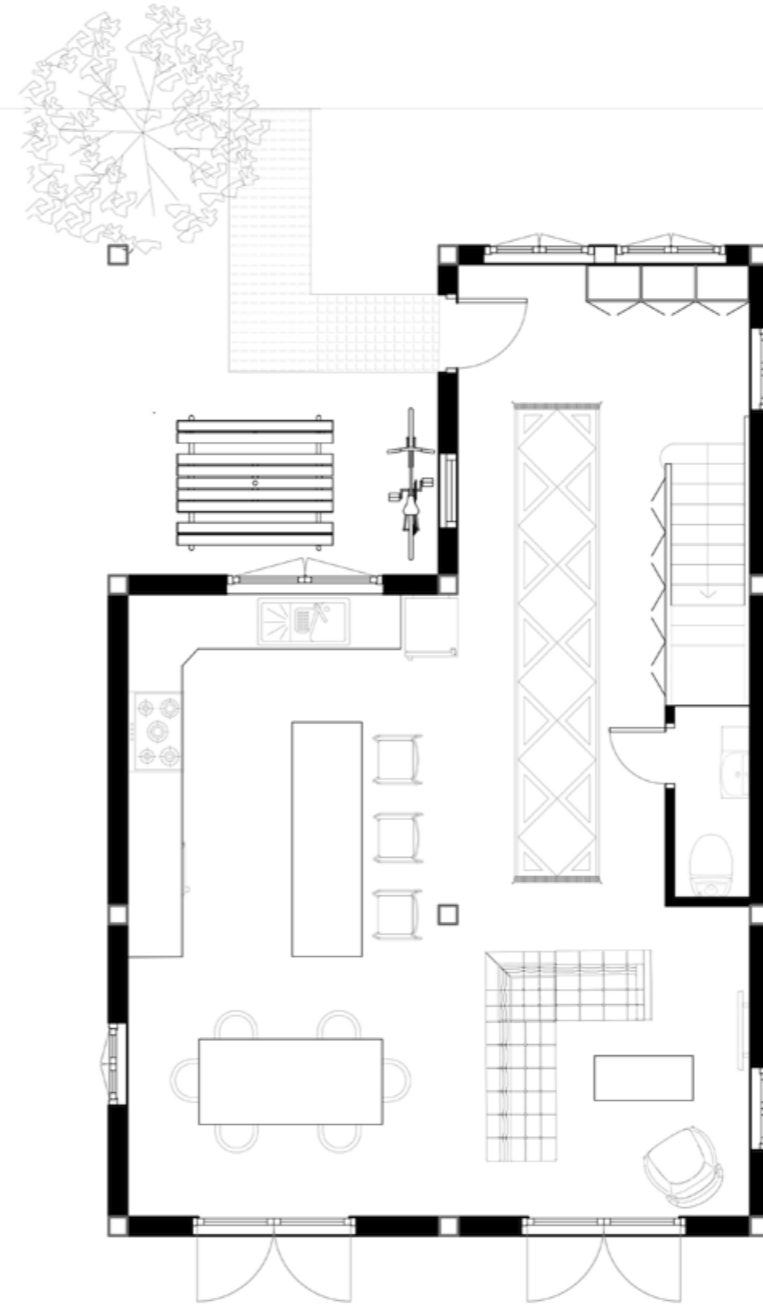
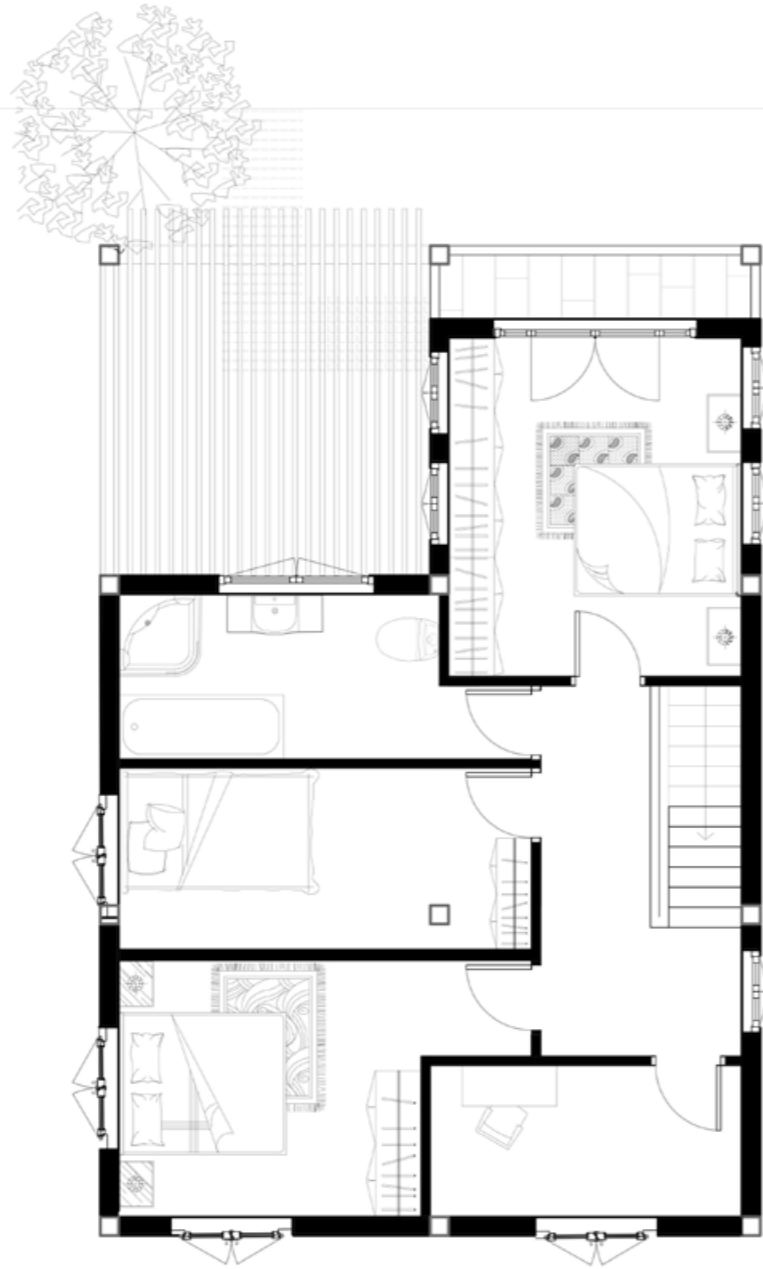


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FLOOR PLANS

