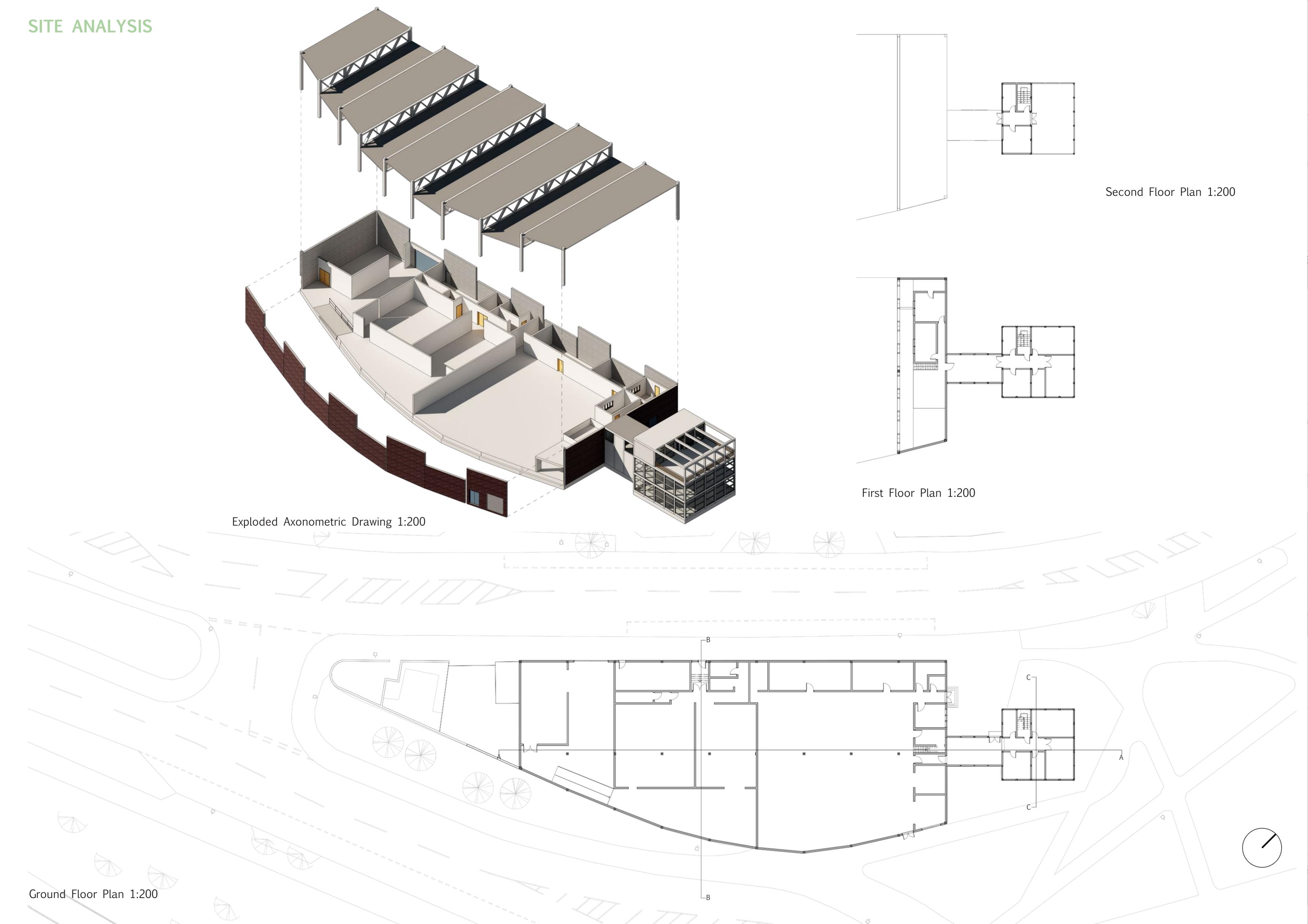


The Eagle Building

Charlie Brackpool, Poppy Casson, Mark Kovacs- Biro and Harry Monaghan



# 1:100 SECTIONS

Section C-C











### THE ORIGINAL BUILDING

Analysing the design and structure of the existing building.



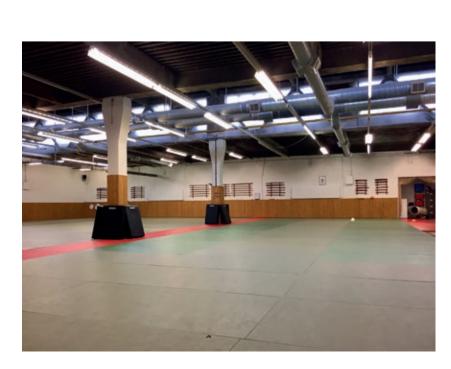
Shown above is the appearance of the original building as seen from the nearest tram stop.



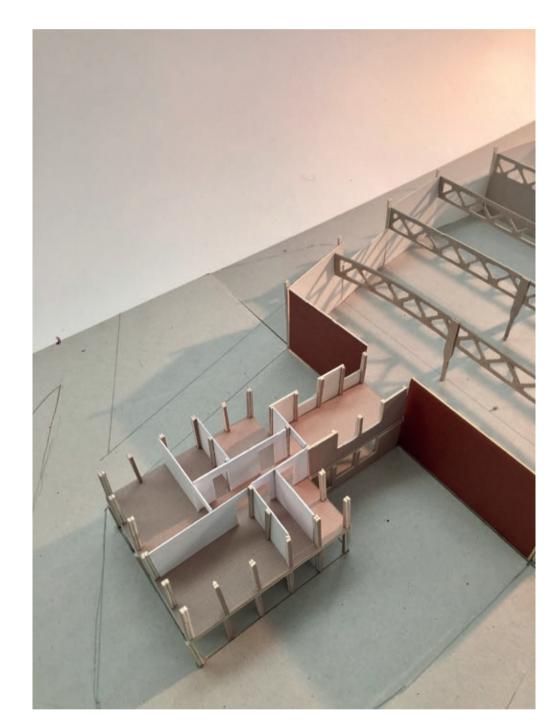
We felt that the proportions and layout of the administrative end of the warehouse were interesting and identified this as something to carry into the future design.

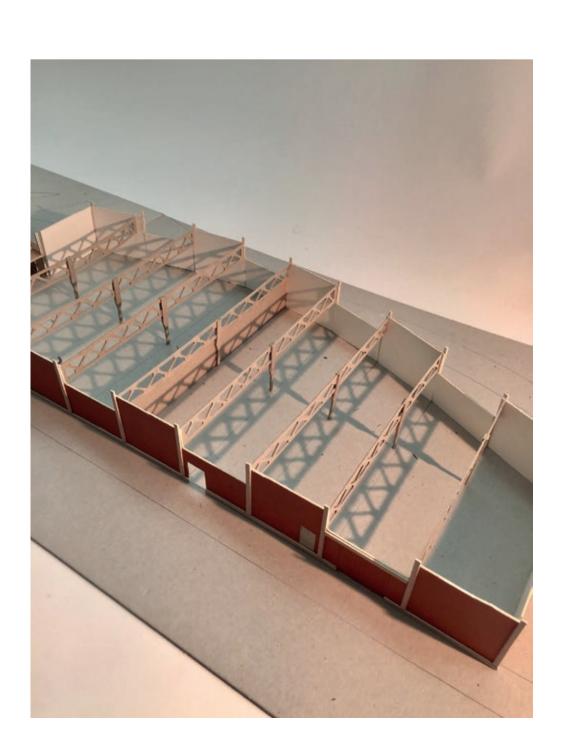


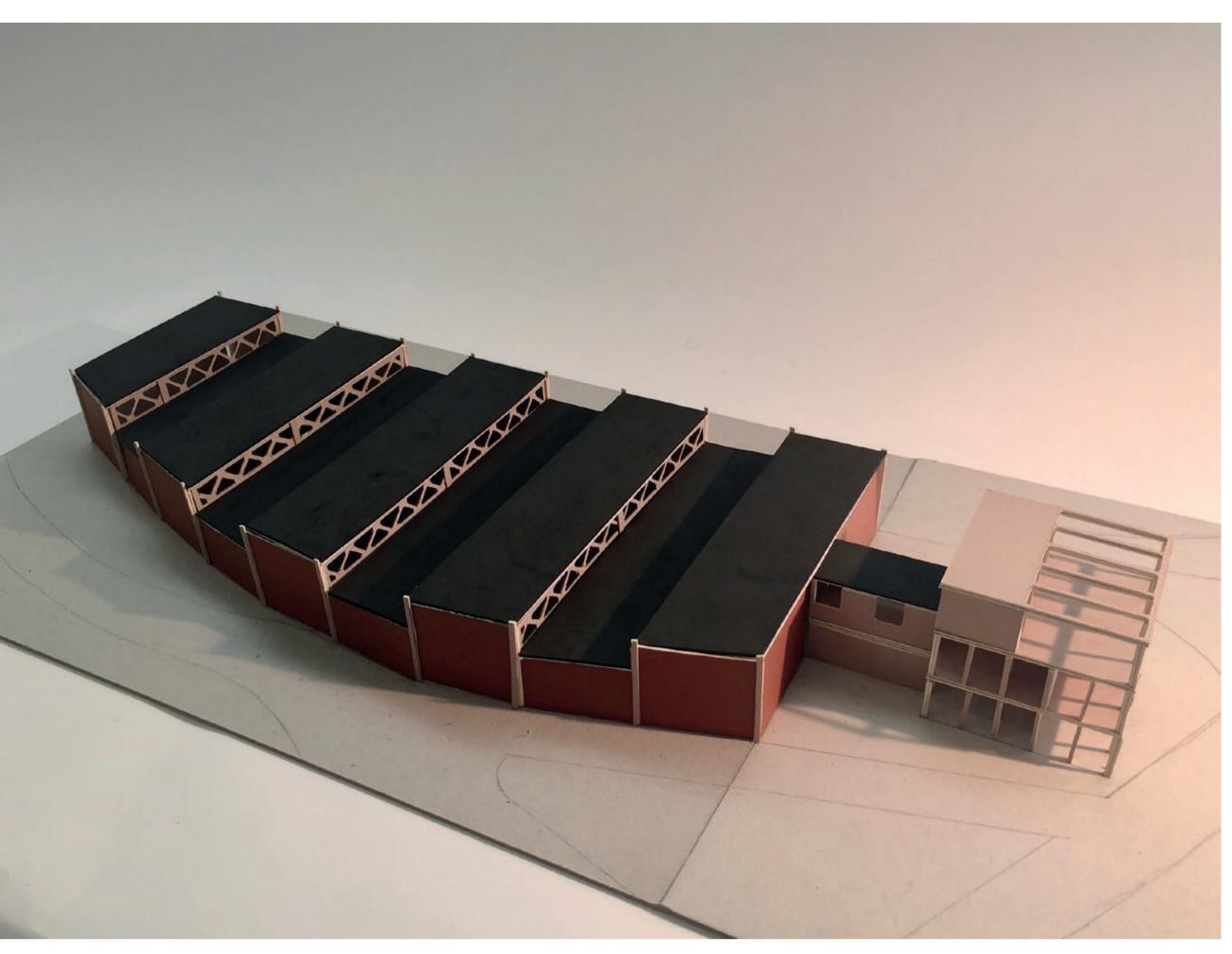
The building is very successfully lit by windows which shine light through trusses. This structure seemed very robust and, again was identified as an aspect of the building that should be maintained.



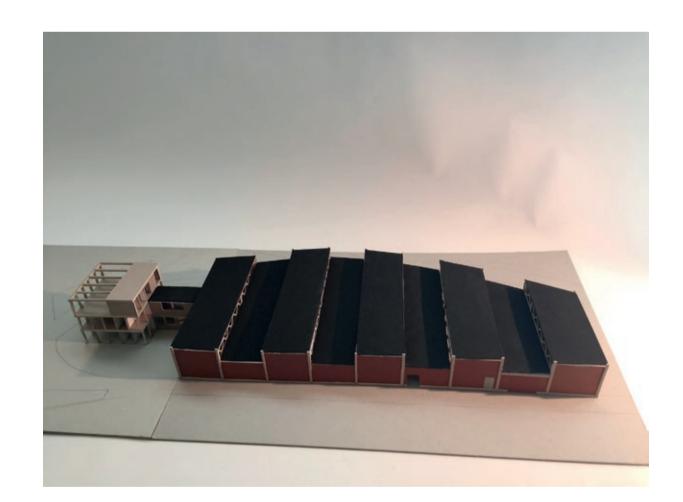








We decided to model the original building in a fashion that emphasised the building's structural elements and gave a good sense of the materiality of the wall and roof structures. Therefore, the key parts of the building were the trusses and columns in the main warehouse and the smaller columns that hold up the administrative end of the building.



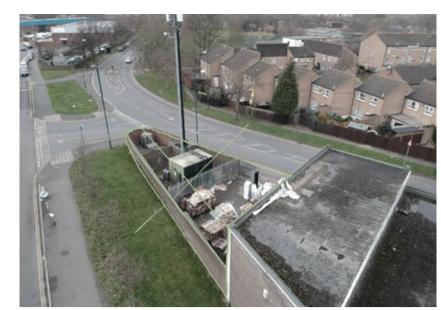






### SITE ANALYSIS

### Identifying transport routes, key places and observations



Opportunity to expand on the West end



Top light openings



Views out over the city from roof terrace in the cube



Building squeezed in be-



Possibilities for green roofs to encourage wildlife



Close proximity to the river Trent, with a nice view



Plants could be grown over the frame of the building



Straight transport route to the inner city

Battersea

Power

Station

ortainty to expand on	the west end	Top light openings	•	ews out over the eleg	y moni roor terrace	iii tiie cabe	tween two roads	Tossibilities for green roots to enec	ourage withine Close pro.	Allilly to the liver frent, with a fi	ice view Trants could be grown over	the inner of the building the inner of
UON Ki main Me	ION ings adow River mpus Leen	Victoria Primary School	HM Revenue and Customs	Nottingham Cathedral	Nottingham Castle	Market Square	Nottingham Station	Notts County Football club	Victoria Embankment	Wilford Toll Bridge	Continuation of tram route	Office of the Public Guardian

1970 Radburn Redevelopment

Bus route 48 to city center

Meadows Embankment tram stop

Bridge sandwich bar

Public footpath routes River Trent

Nottingham Moderns Rugby Club

Repetitive roof line



Concrete column detailing



Space to expand the cube in all directions



Emphasise the cube shape



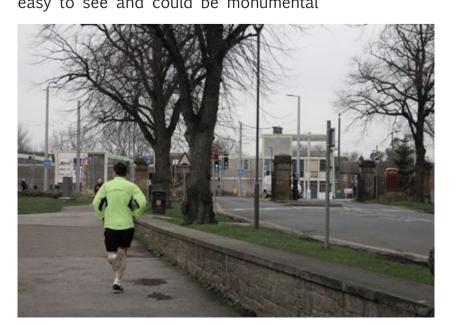
No emphasis on entrances currently, it is unclear where to go



Large drops on some doors, hard to access



Strategically placed at the end of the Embankment, easy to see and could be monumental



Posibility for nature to be brought into the city through more plants and trees

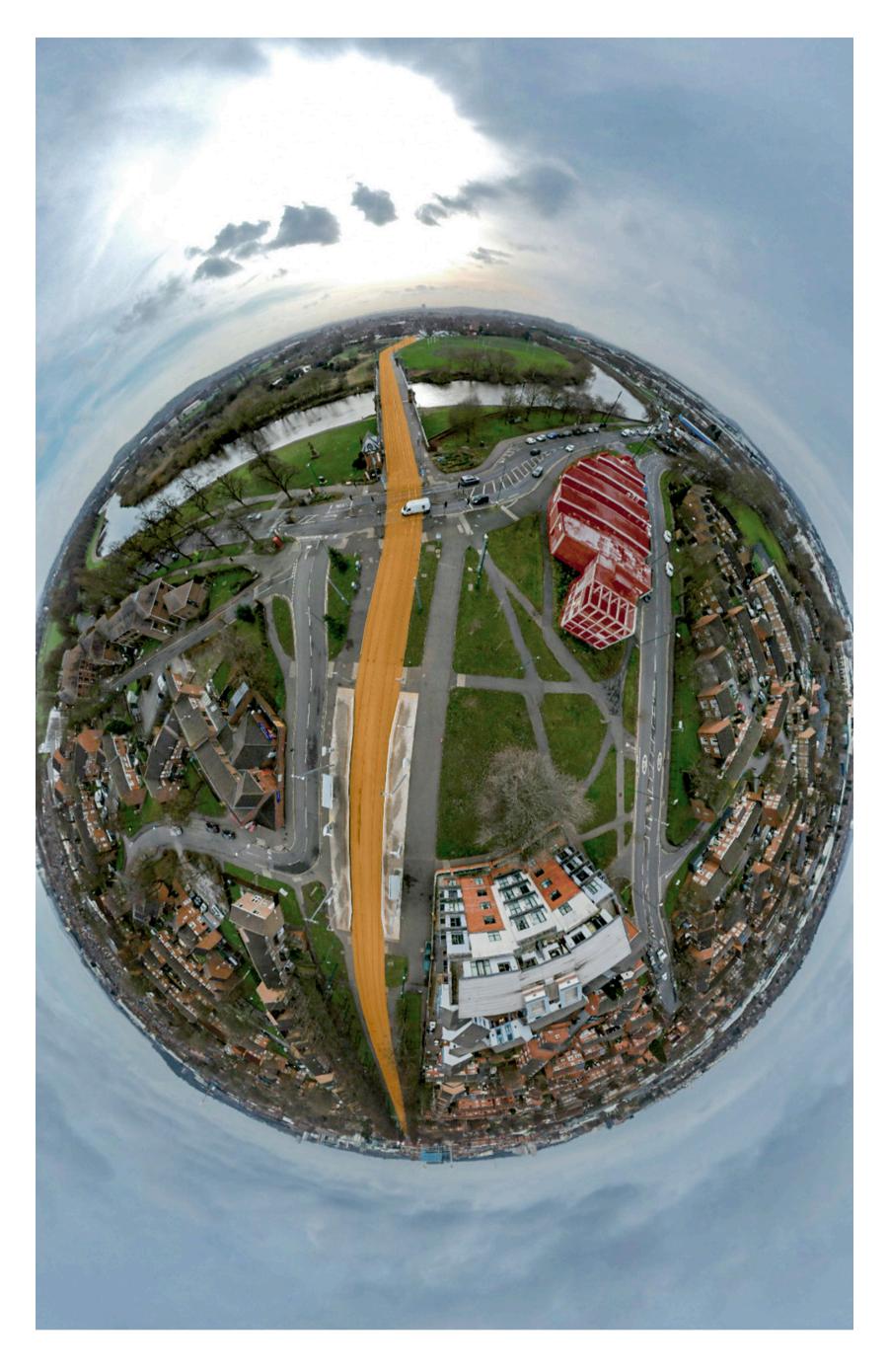




# SITE ANALYSIS

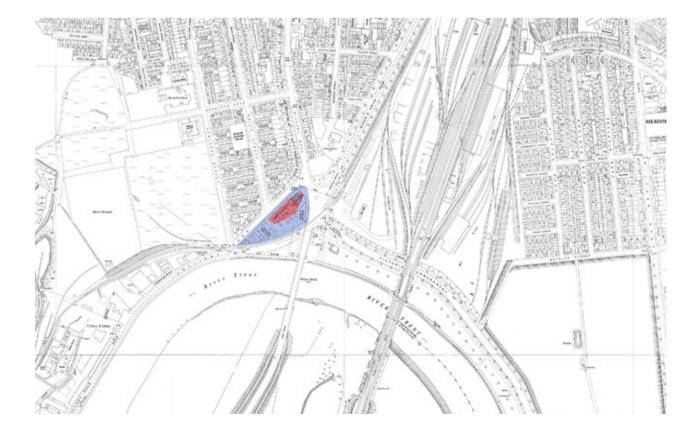
Analysing the urban condition, opportunities and constraints





1:500

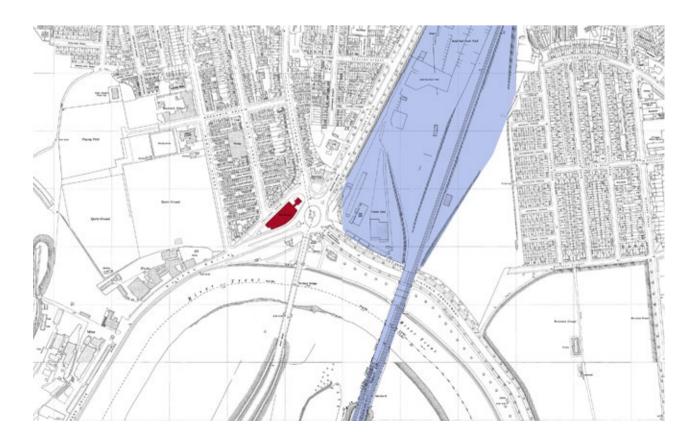
Historical maps



#### 1950

Before the building was constructed there was a technical college and laundry & dye works on the site.

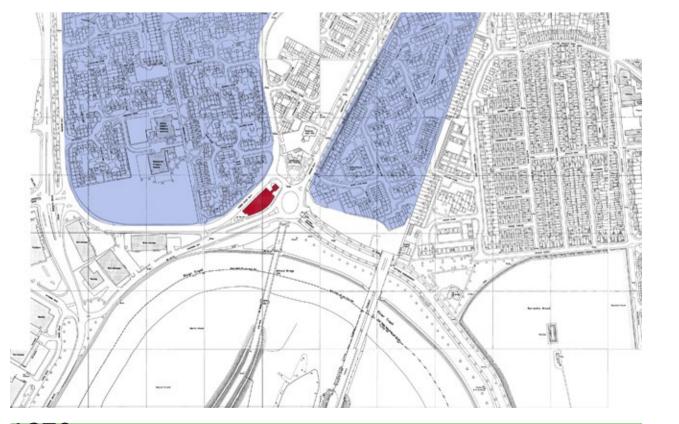
There was "slum" housing to the North and West of the site, with an extensive railway to the East.



### 1960

Following the Beeching report the reduction of british railways changed the area greatly, clearing the space to the East of the site, which would later become residential.

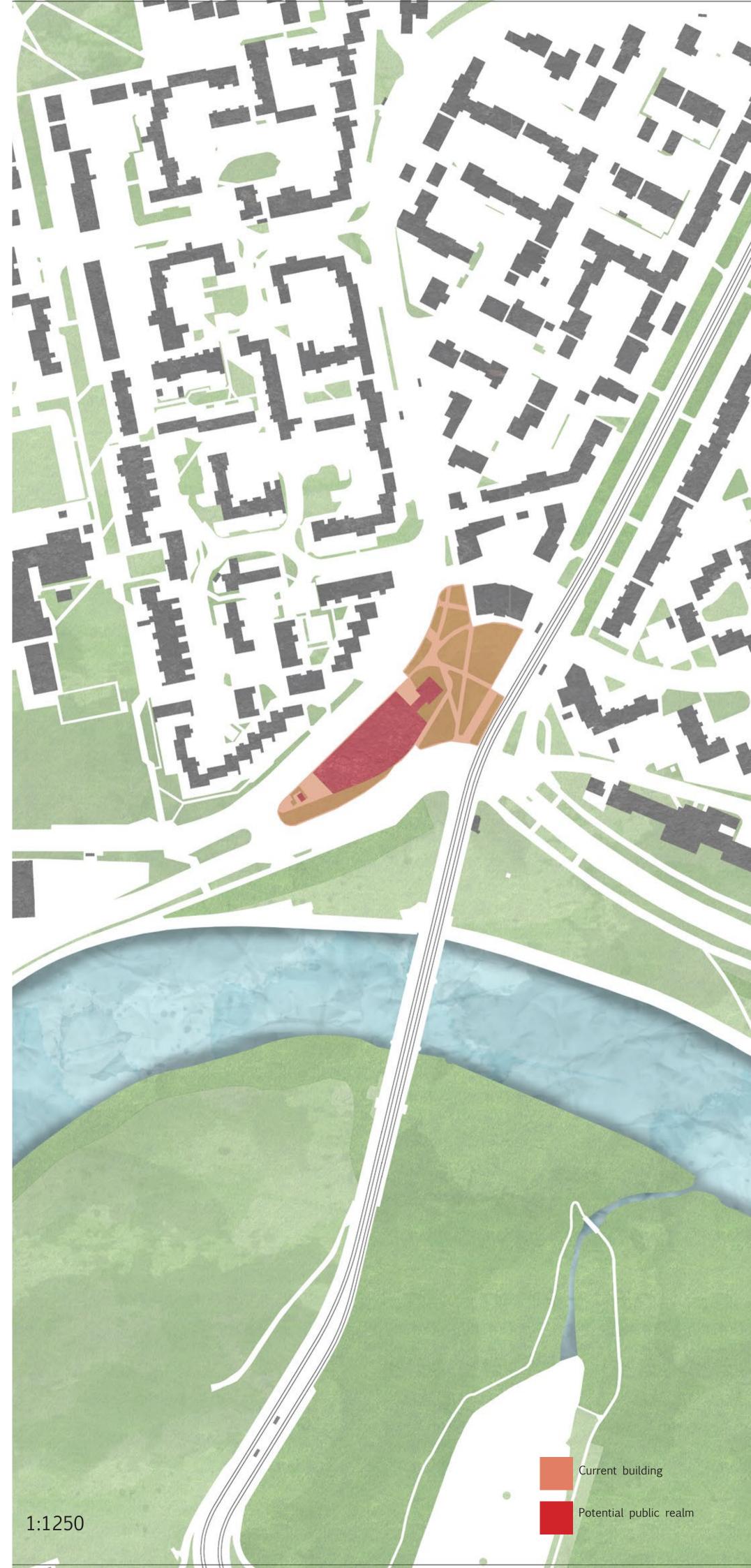
The Railway that was removed was the first line built for the Grand Central Railway



### 1970

The demolition of neighbouring slum housing to make way for the new Radburn estate layout of the Meadows and two nearby schools.

The building become more isolated to surounding housing through the loss of Briar Street and an introduction of the faster cut through road, Robin Hood Way.





The renovation of this site famous for decorative glass into residential apartments comprises two linear blocks which sit along the existing brick framework, with window openings lining up with original plans. The two blocks sit either side of a covered main sqaure, which encourage social interaction between residents and breathes new life into the old defunct factory district. One block employs a straight facade, however the other is fragmented to allow the maximum natural light into the complex and into the interiors, which use sharp white lines to illuminate the flats. Due to the historical nature of Architecture in Venice, this project stands out as a new development, and thus the architects worked hard to ensure the original building was 

The two spearate blocks

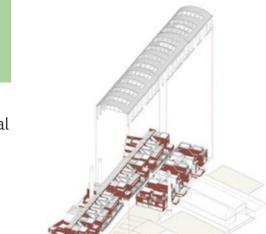
RESIDENTIAL BUILDING REFURBISHMENT

by Studio Macola

VENICE, ITALY



Buildings in Venice are not often refurbished, due to the historical style and small 1750 2019 amounts of free building space





LOUISVILLE, USA Structural beams left exposed demonstrate

how the roof is held up, and makes the

building seem more industrial in it's function

They can also create nice light patterns

on the floor below due to shadows



THE GREEN BUILDING

This centre for arts and sustainability sits in the centre of he pedestrian friendly 'New Louisville' arts district, after the area fell into general disrepair. The former dry good store was given new life through retaining the exterior shell but adding a huge core, which included a 40 foot atrium entrance. 'FER' stands for form, environment and research; which aligns with the builling's design exploration of the relationship between sustainability and space, seen in the structural references to the previous function and new renewable materials. Existing old growth wood members have been blasted with corn husks and planed down for reuse in plain view throughout the building. The aluminium and glass core recesses to the back to draw people to the entrance on the other side, Though some of the spaces are long and narrow, natural light and outdoor views flood the interior through an ascending glass spine that bridges all three floors and breaks the roof into three planes.

BRICK ARCADE PUBLIC SPAC JOJULTA, MEXICO



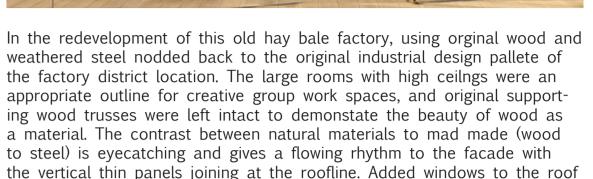


Arches as a shape are thought of as strong and inviting, and easy to achieve in brick

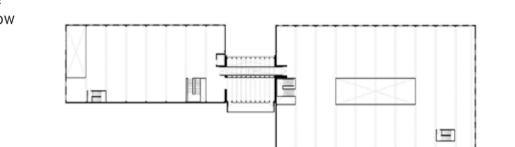
This redeveloped public square was completed as a response to the devastation of the 2017 earthquake. Brick arcades are traditional in the architecture that traditionally surrounds the site, and they arranged methodically like fans for people to meet under. Trees were a big influence for the space as they were one of the few 'structures' left after the quake. "The generation of a civic square with a new identity was only possible by understanding and ordering the previously disarticulated spaces and giving each of the spatial elements a new role while keeping a strong relationship between them," MMX said.

"Spaces that recognise and fortify the transit, pause, leisure and encounter of their

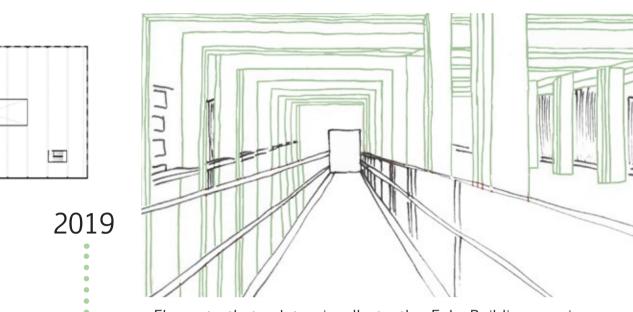




Rafters are left exposed to hint at the previous function of the building, and also how the large pitched roof is supported



1940

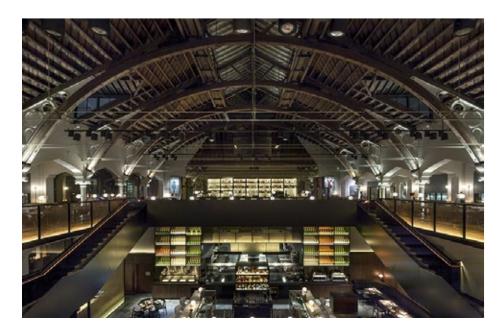


Elements that relate visually to the Eale Building are in green

KINGS CROSS, LONDON

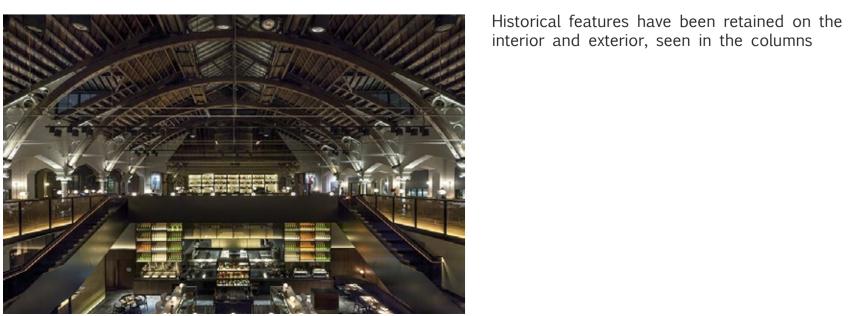


German Gymnasium is named due to the Resturant's old use as a German Gymnasium, funded entirely by the German community in London. The building was designed by Edward Gruning and held the indoor events for the London Olympic Games in 1866. Much of the interior was kept similar in the rafter details in the roof and historic arching brickwork, however in the renovation another mezzanine level was added to allow for more diners. This level is reached by a bold black ribbon staircase, which runs symmetrically along and down the sides. The large open pitched roof is appropriate for a resturant setting, as sound travels up and away from diners; thus keeping noise levels comfortably lower. Some structural roof elements could also be retained in the Eagle Building, as they





have been here.



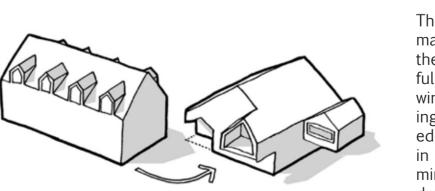
Daycare example

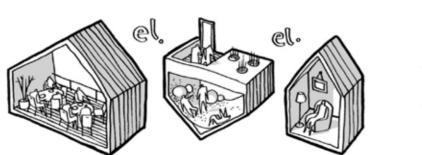


CHILDREN'S HOME KERTEMINDE, DENMARK 2014



Random windows are playful and allow more light from above when placed to the top of the building





Sketch by CEBRA showing how the pitched roof can make a

user feel at home, which is necessary in a nursey setting

This Danish nursery was built in a way that makes children feel safe and at home when they are without their families, through beautifully well lit rooms that use pitched roof shaped windows, deep set so they can be sat in. Existing old growth wood members have been blasted with corn husks and planed down for reuse in plain view throughout the building. The aluminium and glass core recesses to the back to draw people to the entrance on the other side, Though some of the spaces are long and narrow, natural light and outdoor views flood the interior through an ascending glass spine that bridges all three floors and breaks the roof into three planes. One block employs a straight facade, however the other is fragmented to allow the maximum natural light into the complex and into the interiors, which use sharp white lines to illuminate the building.



Mixing materials makes the building stand out in a subtle way and modernises the old brick









This public showroom was converted from an old residential building in the heart of a dense Middle Eastern city. A sweeping staircase has been added to the front, which leads up to a roof terrace that maximises user comfort with shade providing plants. Unpredicted commercial development meant mcuh of the nearby public space had been lost, so the aim of this project was to respectfully open up a space that fitted in well with the contextual red brick and residential building situated there previously. The addition of scrap metal and steel panels give an industrial

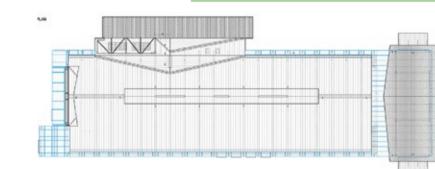
feel to the building, and outlines the red brick while green plants

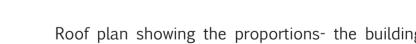
upwards invites people inside from the street, and other elements

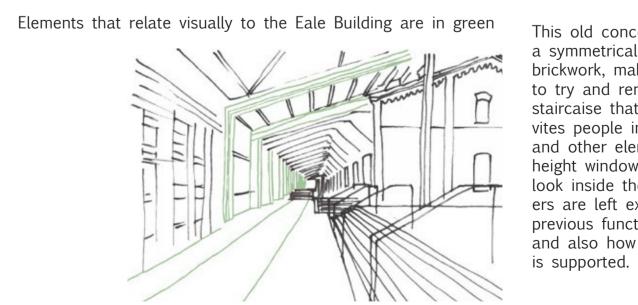
contrast to linear elements. The sweeping staircaise that directs

such as full height windows encourage users to look inside the

HANSAS PERONS by Sudraba Arhitektü







This old concert hall in Latvia is a symmetrical design with detailed brickwork, making it a large task to try and renovate. The sweeping staircaise that directs upwards invites people inside from the street, and other elements such as full height windows encourage users to look inside the gallery space. Rafters are left exposed to hint at the previous function of the building, and also how the large pitched roof







bring more natural light into the deep rooms, to illuminate workspaces.





Roof plan showing the proportions- the building is long and fairly symmetrical like the Eagle Building

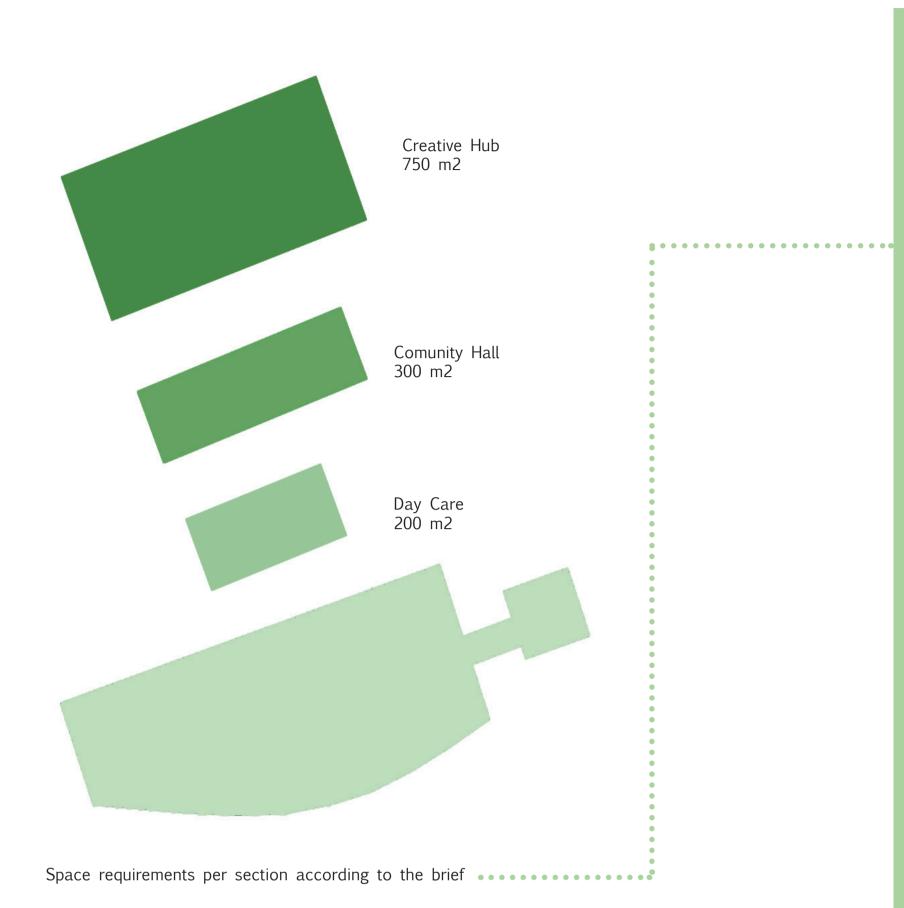


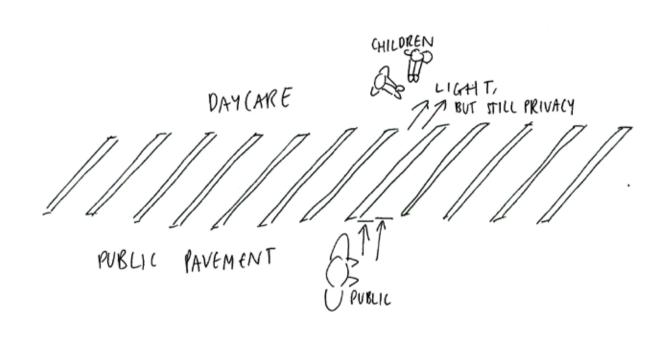


### STRATEGIC APPROACH FOR CREATIVE REUSE

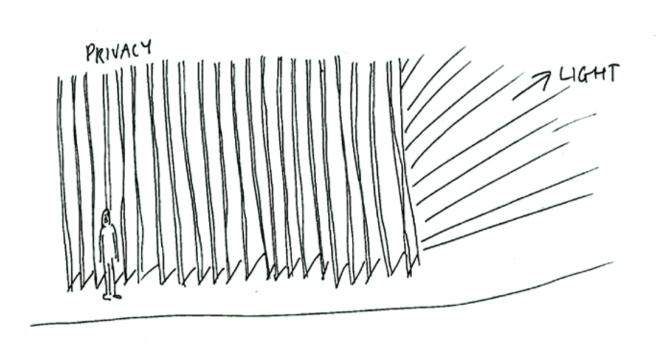
### DESIGN DEVELOPMENT

Responding to opportunites and dealing with constraints

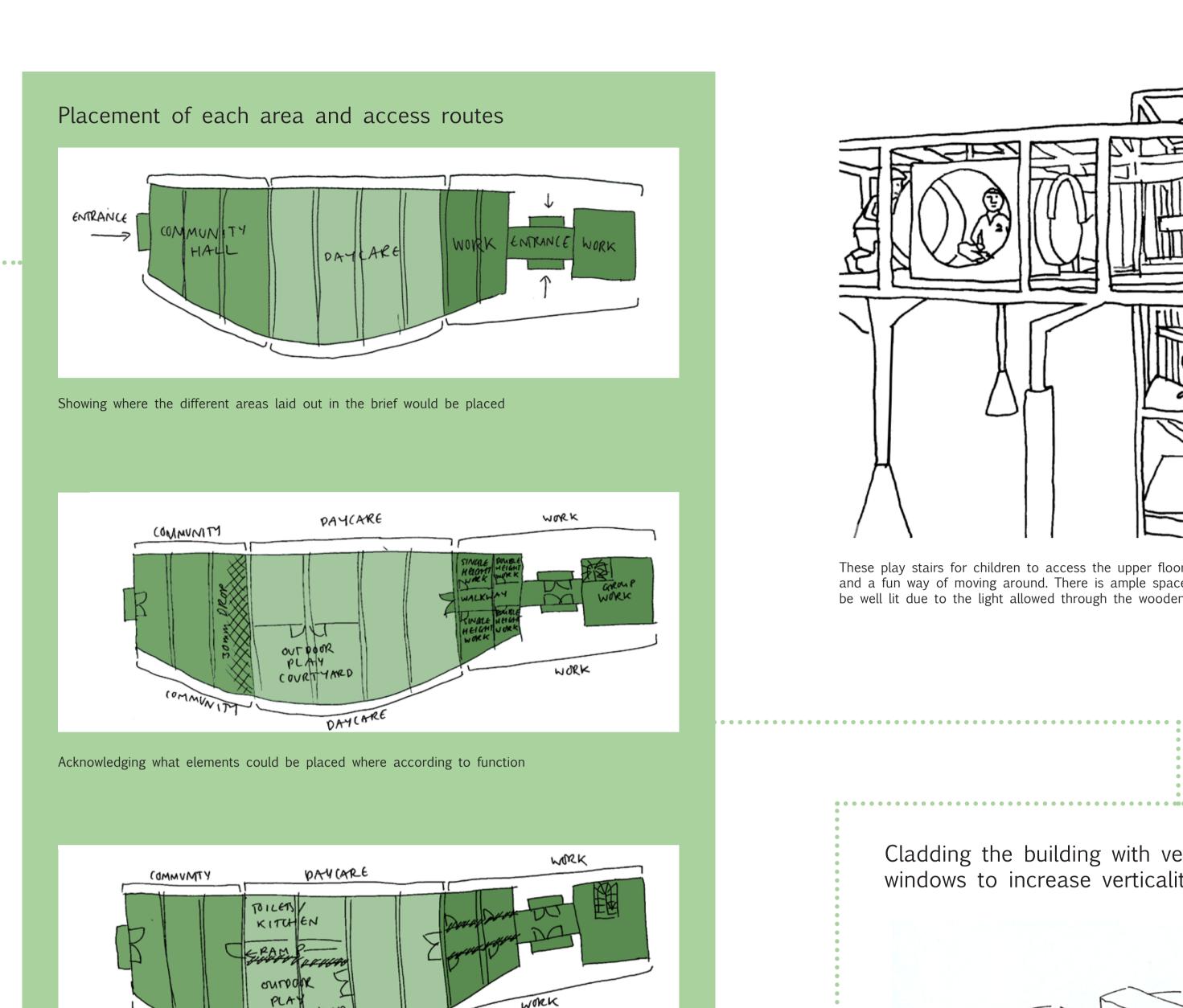




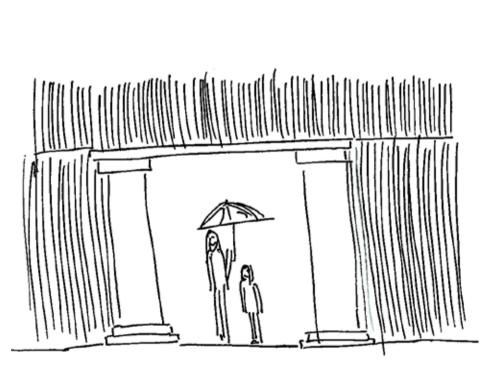
Demonstrating how light can still reach the interior



By placing tall panels on a diagonal close together, it is difficult for the public outside to see inside to the nursery, but light is still allowed to fall through the gaps to illuminate the inside



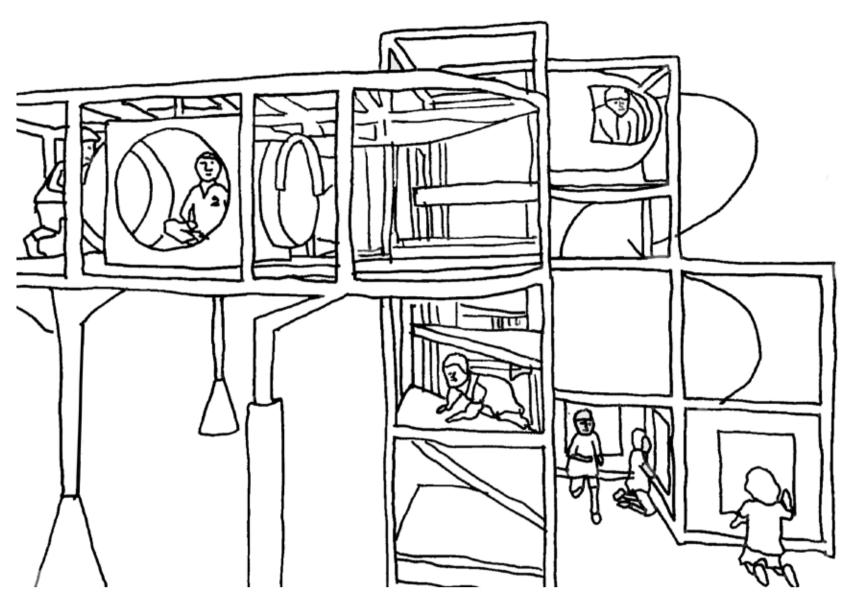
Demonstrating access routes, and where perferated wooden beams could be places to allow light



through but still privacy for the interior

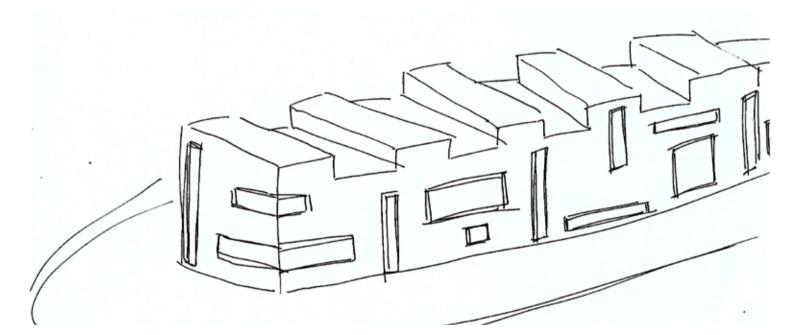
Monumental enrances to encourage people to come inside, similar to this inviting stepped entrance to a showroom by Why Architect Group



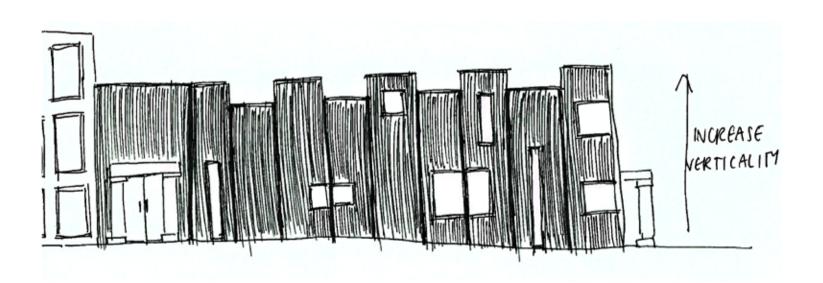


These play stairs for children to access the upper floor create a safe way for them to have independance, and a fun way of moving around. There is ample space in the daycare centre for the structure, and it would be well lit due to the light allowed through the wooden panels.

Cladding the building with vertical wood and large glass windows to increase verticality and maximise light



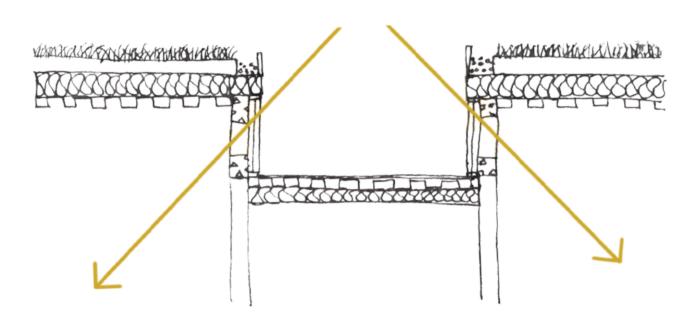
Ribbon windows could be used on some corners, to allow light throughout the day



By placing wooden cladding that runs up the building, it increases the overall verticality and makes the building seem monumentally taller from the ground

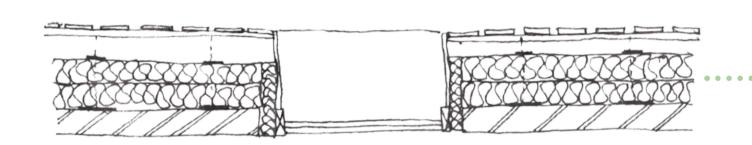
### STRATEGIC APPROACH FOR CREATIVE REUSE

### MATERIAL DEVELOPMENT



Roof Insulation

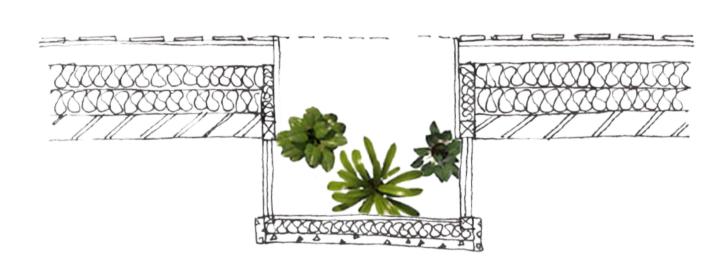
A altering warm and cold roof stucture allows the window opens to stay at a maximum, allowing maxinmum light into the builing below.



Window Type 1

Deep resess window with a CORE-TEN surround

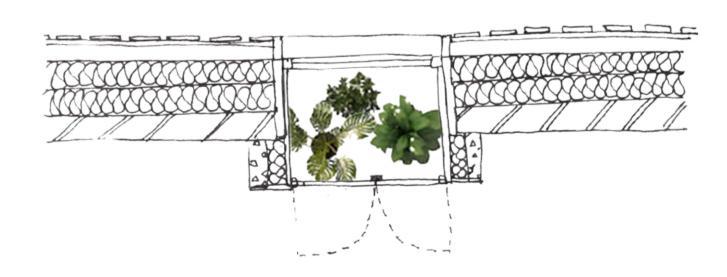
Window in line with the interior wall, helps create privacy



#### Window Type 2

#### Hidden windows

Creates a privacy inside, and a playful way to to bring greenery into the building and alow private views out while keeping the inside private

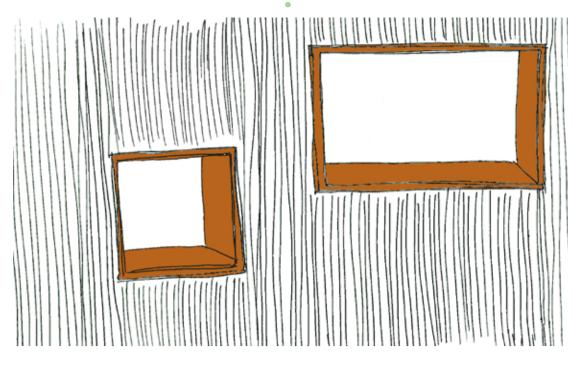


### Window Type 3

#### Internal Greenhouse

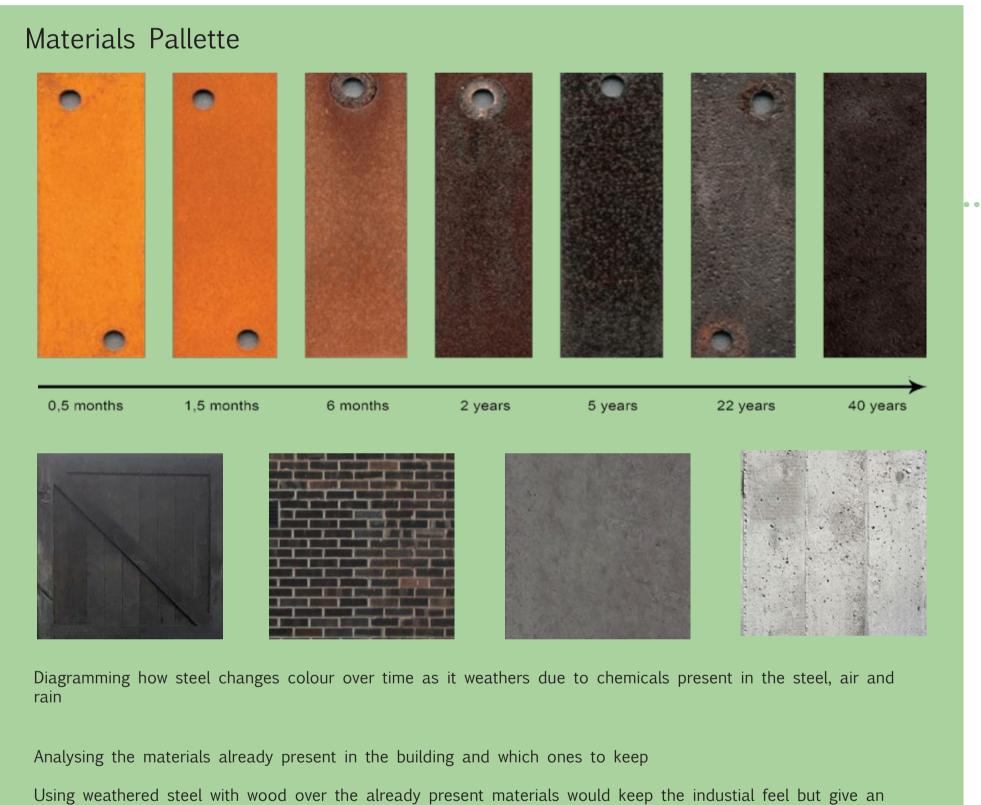
Another window type that allow you to bring greenery into the building and allow children in the day care to look after and grow plants all year.





Adding depth to windows increases the privacy inside, whilst still allowing natrual light through

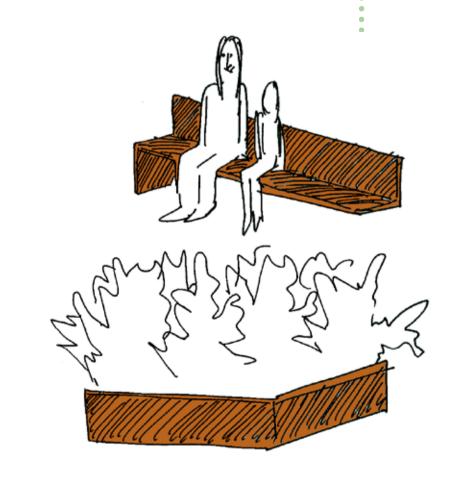
REDFOX COMMONS by LEVER ARCHITECTURE uses wood and weathered steel as contrasting man made to organic materials

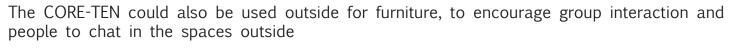




homely organic comfort due to the natural wood





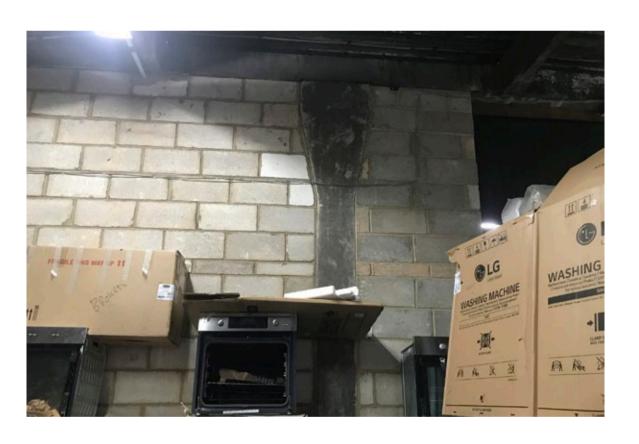


### Existing material palette



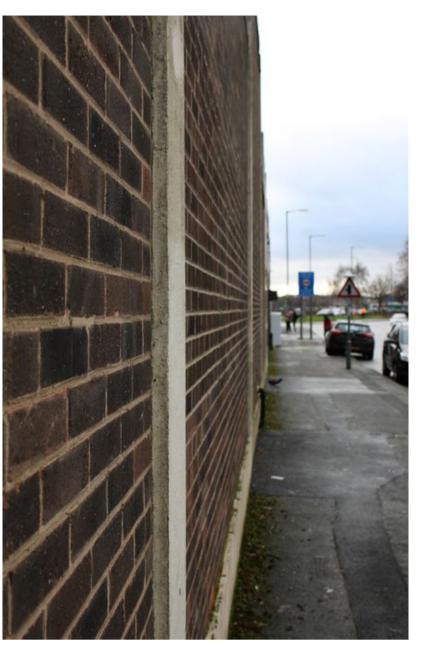
The concrete 'bones' of the office block on the end create a nice structural sillouette to work from

We have decided to contrast to the existing dull and drab industrial palette of mortar, concrete, brick and pipes with organic light wood panels and CORE TEN organge steel, which will weather over time. These new materials will make it look more modern, respect the original industrial purpose of the building, and show which parts are new and which were original.



The breezeblocks used as a wall material inside make the walls seem cheap and cold, which would need to be improved aestheticially and termally during renovation

(ORE 10 STEEL FURNITURE (REATING PUBLIC SPACE



Dark brown brick and mortar are the traditional builling materials for this area of Nottingham



Inside there is a mixture of plaster, paint, concrete and glass



Pipes run the whole way through the building, and the exposed nature of them makes the building seem industrial and not homeley or office like

## STRATEGIC APPROACH FOR CREATIVE REUSE

### ERGONOMICS AND DETAILING



The cafe should have easy and open access to the till, and tables, toilets and access routes should be made obvious



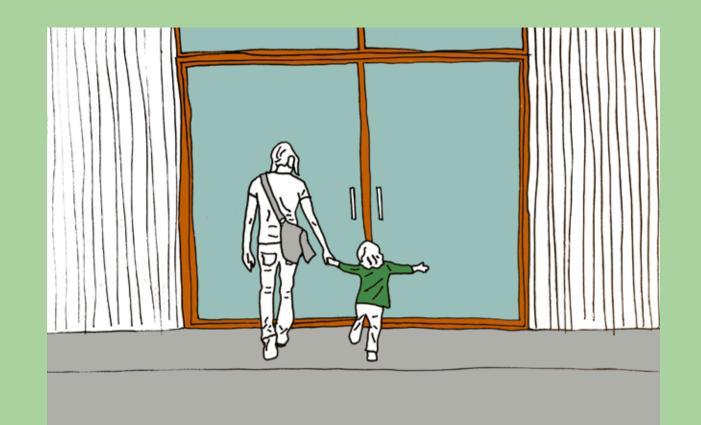
Children playing in the nursery should be in a safe environment at all times, with enough natural light coming into the room



The garden area outside can include furniture also made from CORE TEN steel will encourage visitors to hang around and chat outside the building



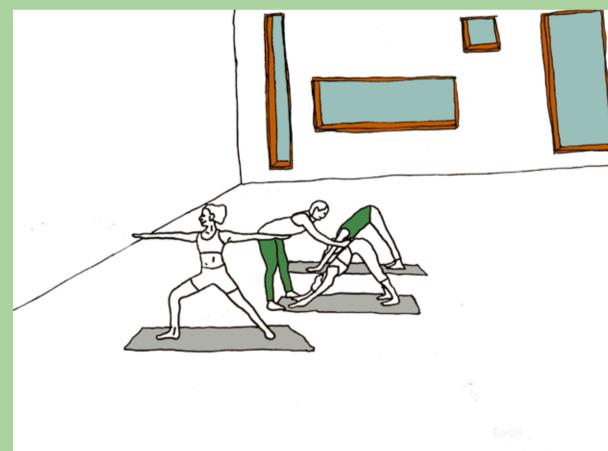
The roof garden lessens the amount of space lost overall on the site, and gives another place for cafe users to sit



Entrances should be bolder and more open that other parts of the exterior, so new visitors know where to go and the fucntion is clear



Natural light is also important in the creative work space, so people can see what they are doing and creativity is encouraged

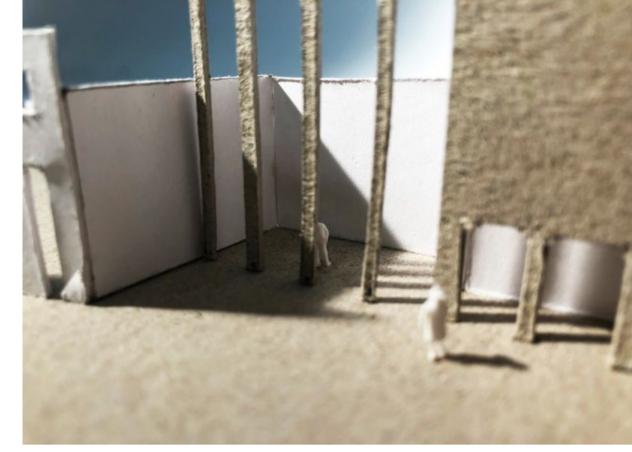


The community hall should be bright and airy to allow for many possible uses such as sports, gatherings, occasions and classes

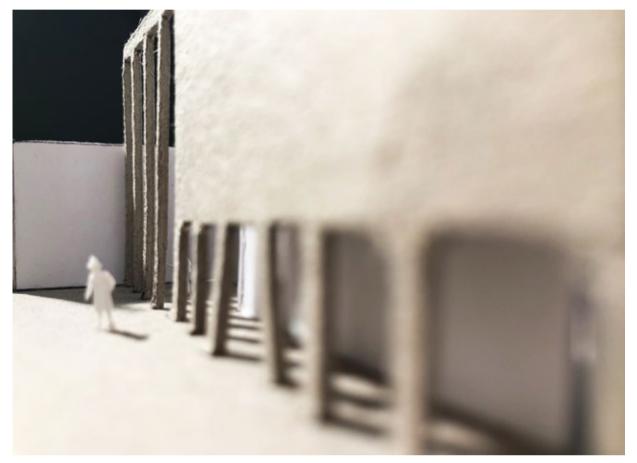


The panels cladding the nursery section allows light to come into the building but still retails privacy for the children inside

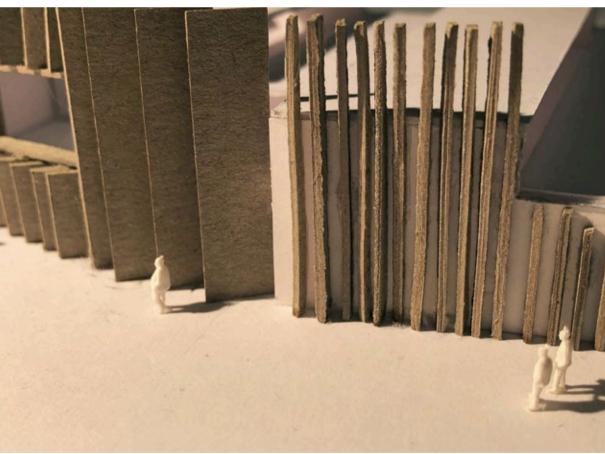
### Making interim models to test visual and structral effects of the chosen design



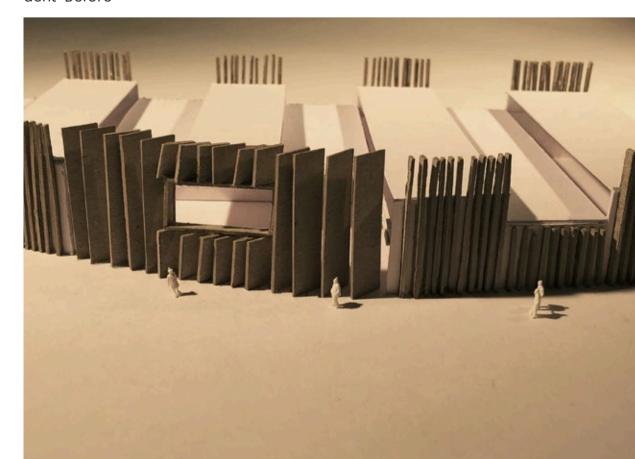
The entrance facades are penetrated by light, to blend outside and inside



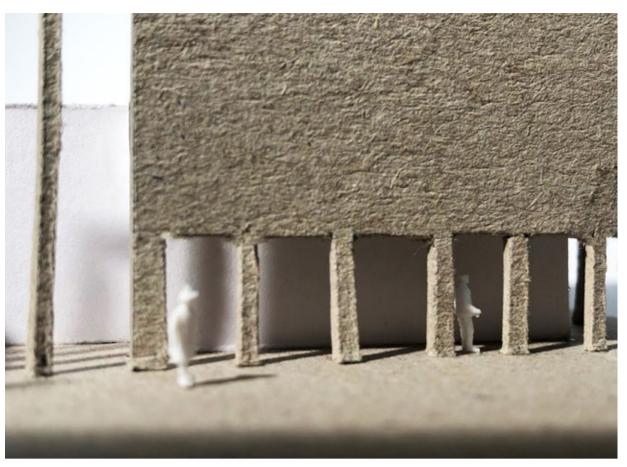
A loggia is created in the cube, which can shelter people outside and create more internal space



The vertical slats increase the feeling of height in the building, that wasn't evident before



The verticality is continued throughout the facade



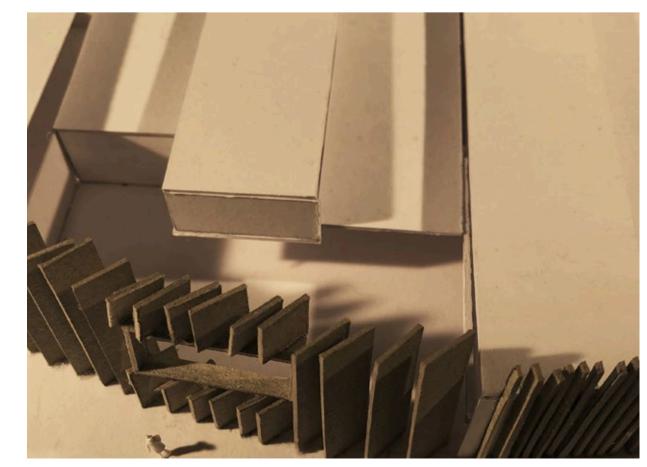
The geometric and repetitive use of geometry gives a regualrity to the facade



The mixing of outdoor and in encourages users to come inside



Nice linear rays are created by the shadows falling through the slats



The angle of the slats allows light to filter through throughout the day

MODEL 2

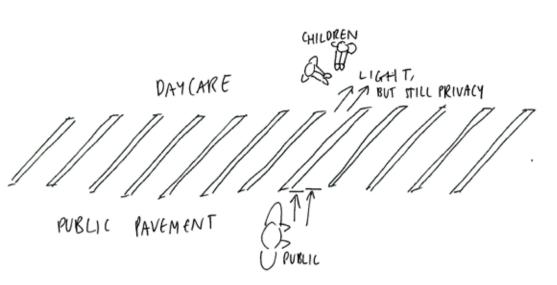
MODEL

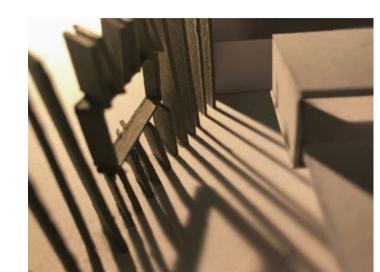
### ON SITE PLACEMENT OF DEVELOPED FEATURES



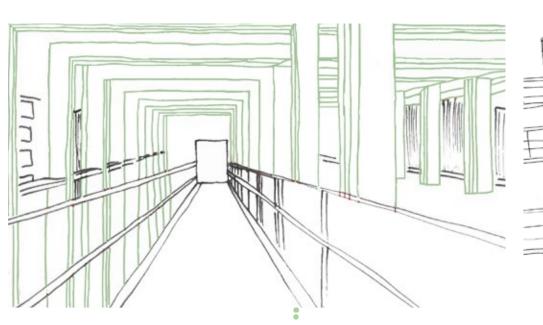
•••••

Deep set Core 10 windows are outlined to stand out through the vertical wooden beams which clad the building the whole way round. They allow light to penetrate the facade, whilst still allowing privacy for users of the interior due to the depth.

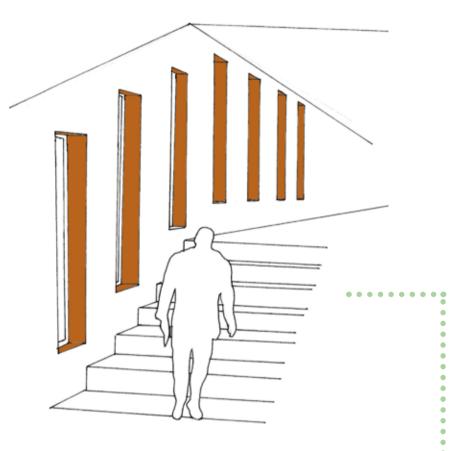




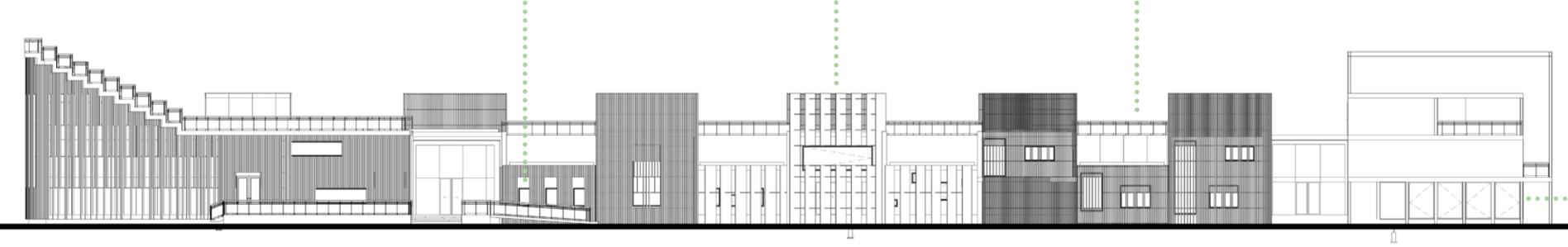
The huge vertical slats That cover the daycare centre creates a safe privacy for the kids inside, whilst still letting light filter through. A large horizontal window upstairs has been added so the kids can see out over the



The alternating roofline on the top of the building means it is necessary to have walkways between the top levels, to allow visitors to travel between grreen grass roof sections. This means less ground surface area is used up by the building, and keeping the alternating line means light can still fill the rooms below through the glass covered truss windows.



The stairs are followed upwards by veritcal thin slit windows, which allow chinks of light throughout the day according to the position of the sun. It also makes it obvious from the outside that there is a double staircase inside, making activity inside clear.



South side elevation

North side elevation



The offices in the cube built for collaborative group work are surrounded by large repetitive windows the whole way round, allowing lots of daylight for people to work in. New steel Core 10 columns make the interior structurally

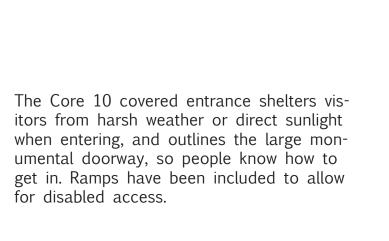
The stepped terraced roof garden provides another place for cafe visitors to sit in nice weather with views of the river, and also mkses the elevation view

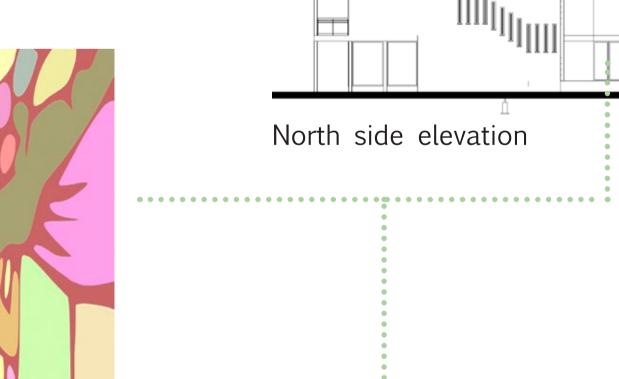
more interesting to the eye, whilst making the cafe end feel just as important and monumental as the tall cube at the head of the building. This means people are more likely to be directed to the

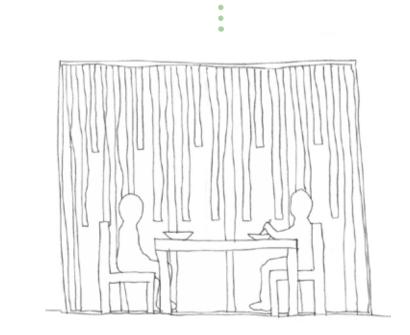
cafe and visit.



A colourful mural space has been added to the entrance hall, to brighten up the interior and invite people in. It would be a potential place for the creative hub workers to showcase their work, so the areas are more connected as a whole building.

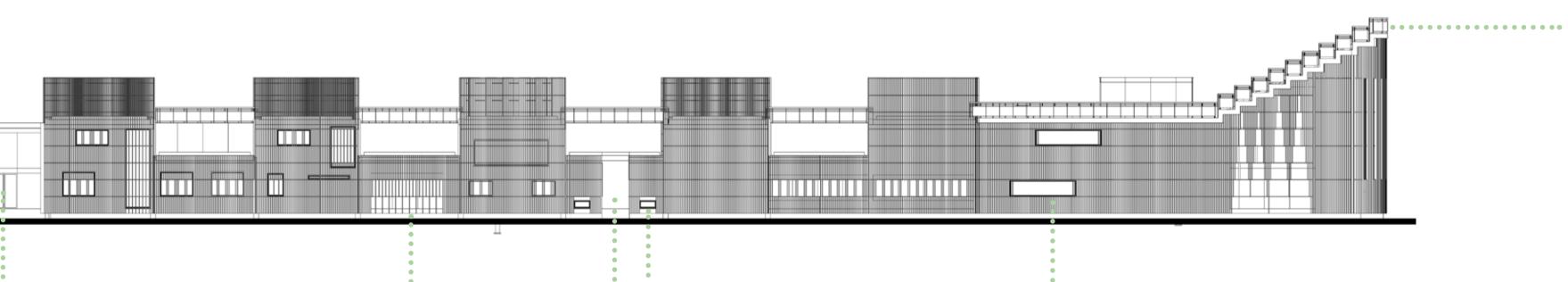


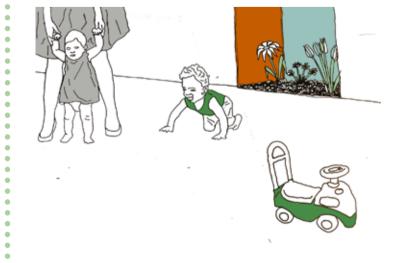




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In the nursery dining room, the large window is slatted gradually down to window, to create interesting shadows insude and also shade the children as they eat, whilst still allowing them to see out.

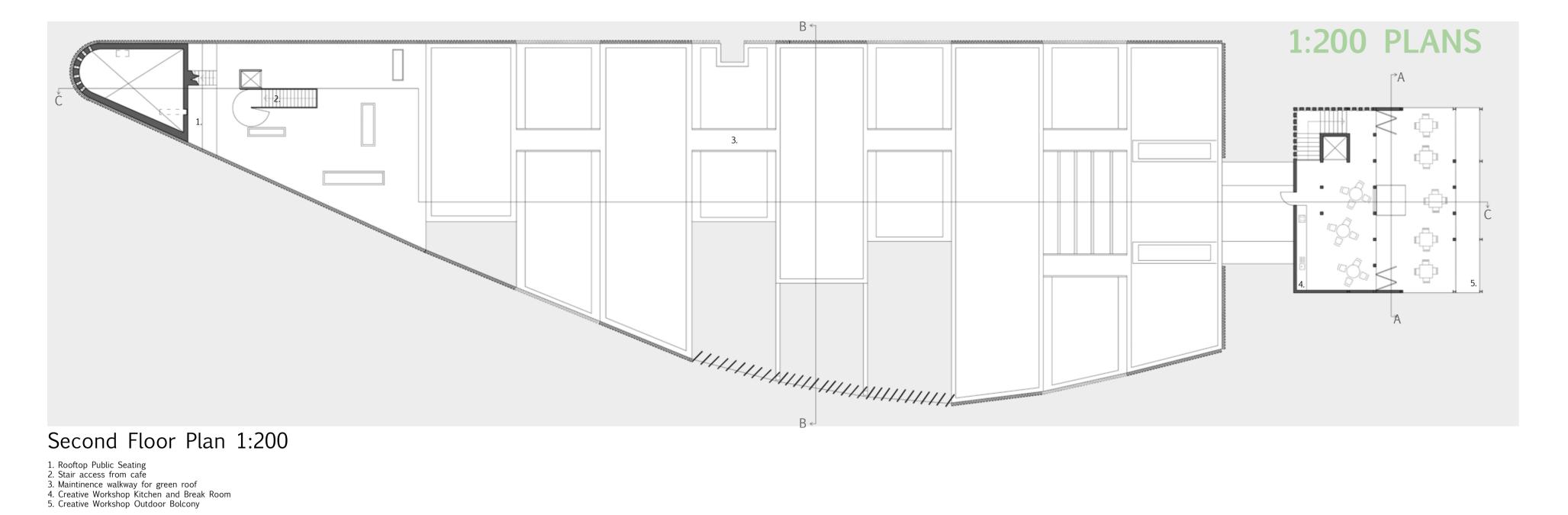




This deep set saftey window has been added to keep the childen safe away from the public eye, whilst still letting nice views and natural light through. there is the possibility of growing plants in the windows, to try and bring nature inside the building.

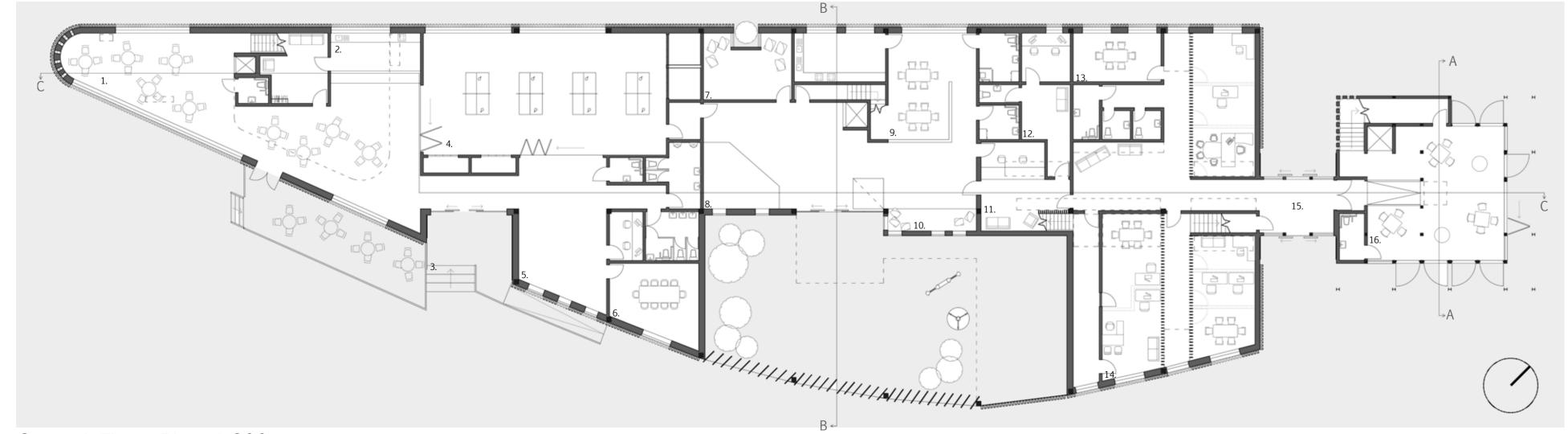


Playful and non regular placement of windows was also used in this Dnish nursery precedent. In the design windows were placed not because of geometry, but instead placed according to which areas needed light for the function inside. Therefore this practice follows Le Corbusier's quote; 'form follows function'. The building is already irregular in shape, especially in the facade, so the windows don't look out of place to not follow a scheme.



First Floor Plan 1:200

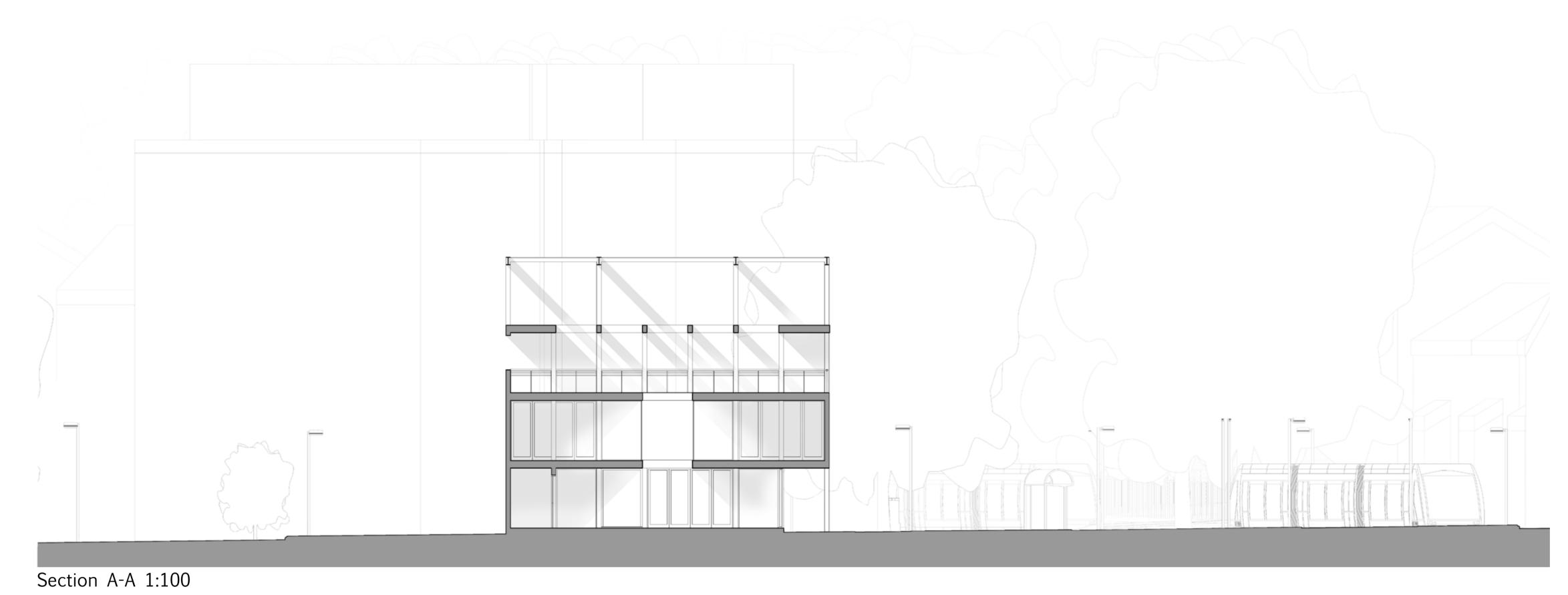
1. Cafe Mezzanine Seating
2. Nursery Sleeping Zone
3. Nursery Play Space
4. Creative Workshop Rentable Spaces
5. Creative Workshop Quiet Meeting Zone
6. Creative workshop Renatble/Hot Desks

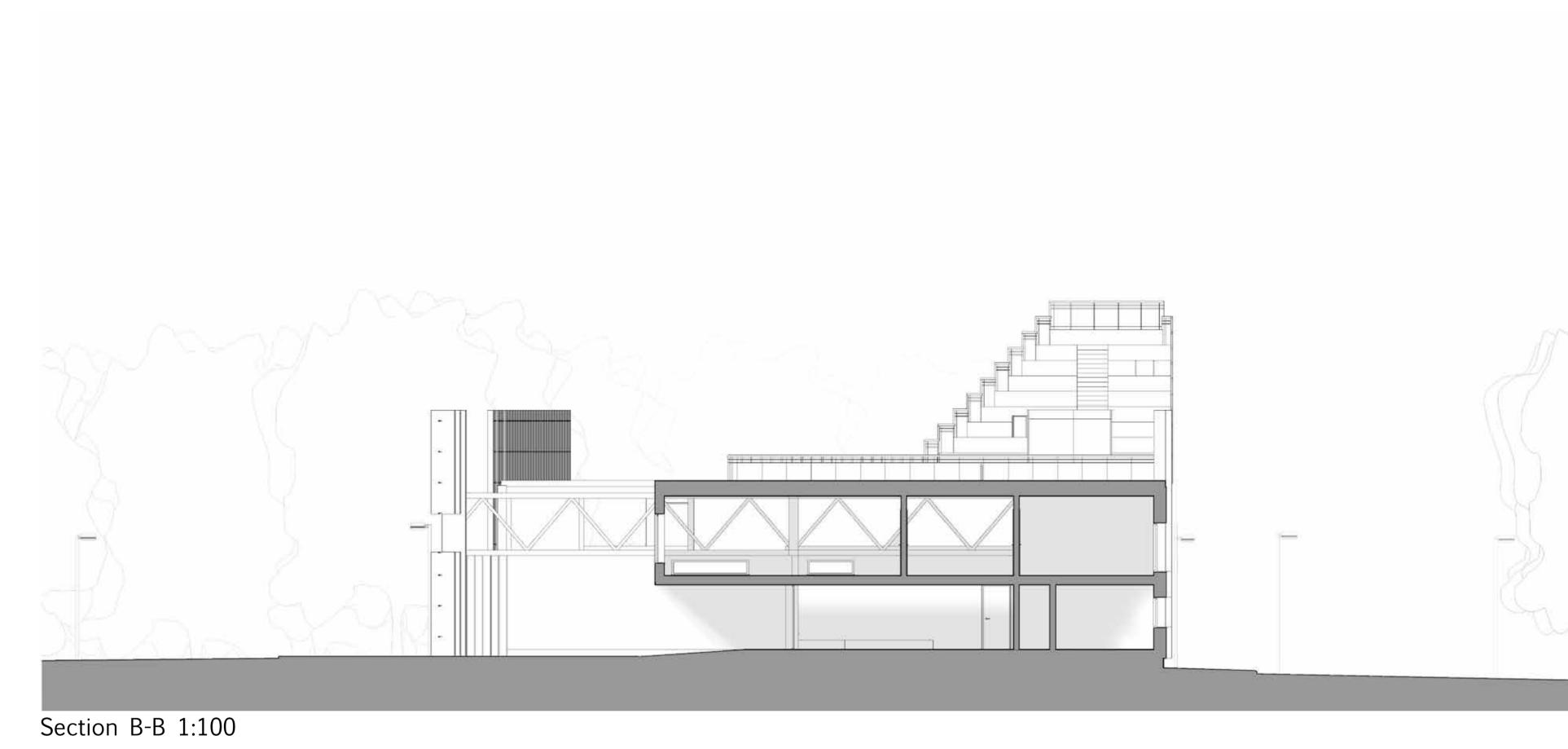


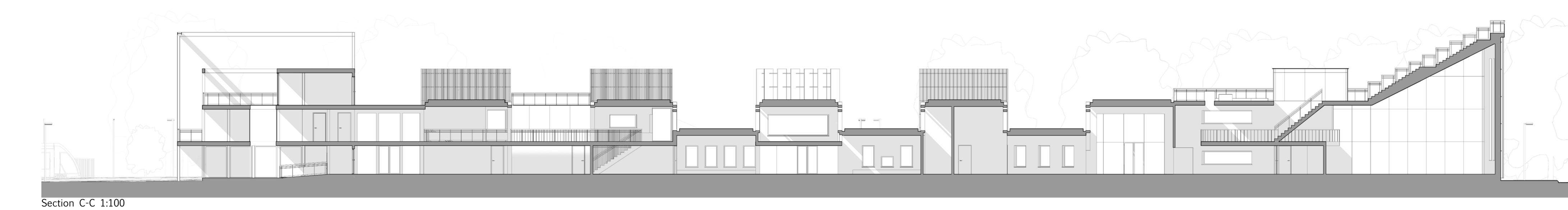
# Ground Floor Plan 1:200

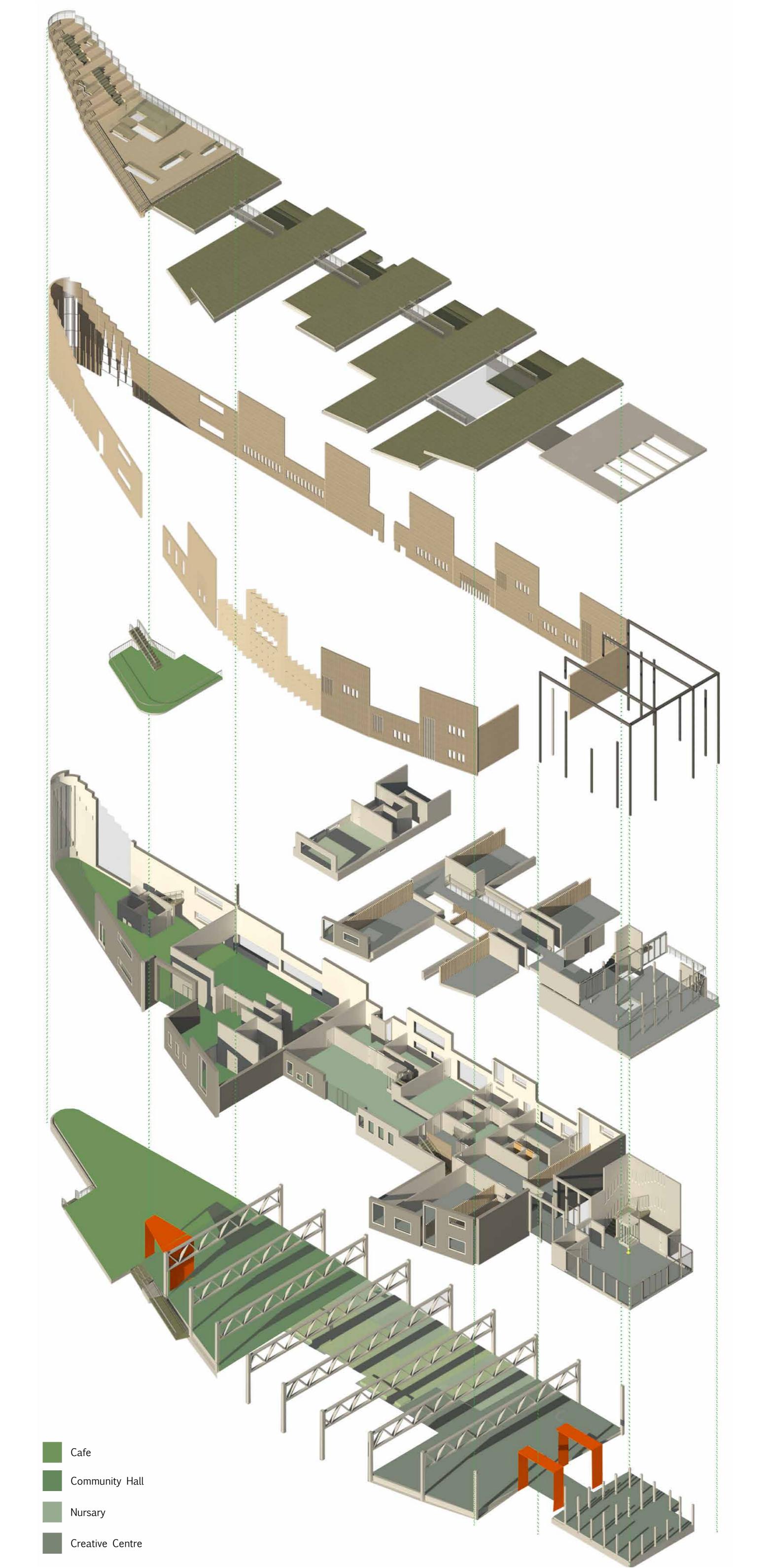
1. Cafe Seating Area
2. Cafe
3. Cafe & Community Hall Entance
4. Community Hall
5. Creative Workshop Store
6. Community Meeting Room
7. Toddler Creche
8. Nursery

9. Nursary Dinning Area
10. Nursary Quiet Play
11. Nursary Reception
12. Nursary Office and Staff Room
13. Creative Workshop Metting Room
14. Creative Workshop Rentable Spaces
15. Creative Workshop Main Entrance
16. Creative workshop Renatble/Hot Desks









### FINAL MODEL

### Final Building Represented at 1:100 Scale



The roof of the cafe gradually steps upwards at the tail end of the building to create a monumental destination that mirrors the height sense of grandeur seen at the other end of the building.



A roof garden sits on the roof of the cafe and can be access by the main cafe staircase. This space will be populated by tables and provides views over the river and the meadow of green roofs across the rest of the building.



The community hall and cafe share a main entrance which can be seen above surrounded by corten steel cladding. As visitors approach the entrance the mural on the interior wall can be seen through the large glass entrance.



The wood cladding, that runs across the whole main section of the building is manipulated to create openings for windows and views into and out of the large void which is used as an exterior extension of the daycare.



The new building relies largely on the columns and trusses from the original structure for its support. The only place where the trusses have been altered is shown above. To for 1st floor creative spaces the trusses here have been cut through creative a raised walkway.



A similar corten clad entrance is created to access the creative hub and daycare. Also seen here is how the extension of what was the administrative building has created an overhang, under which pedestrians can walk.

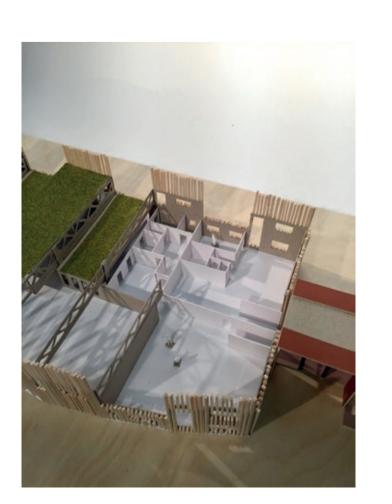




The series of balconies, terraces and large windows on each floor of the creative hub allow artists to look out and engage with the surrounding area.



The ground floor showing the access into part of the creative hub and through to the daycare.



The first floor of the creative hub spanning across the two part of the building and the walkway that cuts through two structural trusses supported by extra columns below.



1st/Ground floor layout of the main day care including the exterior void, play room and eating area.



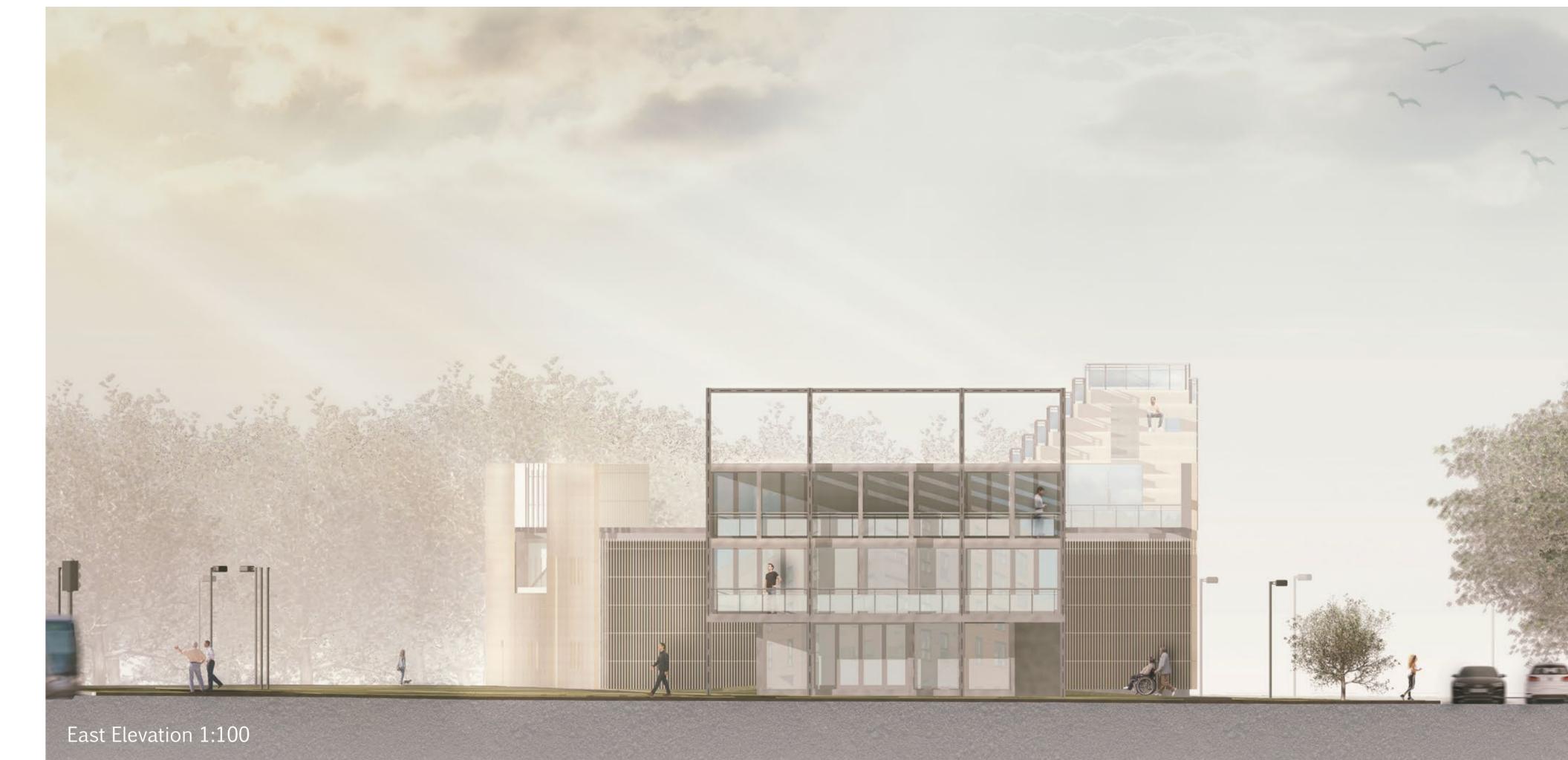
Interior layout of the community hall. Entrance, shop and meeting room on near side and main hall on the far side of the building.



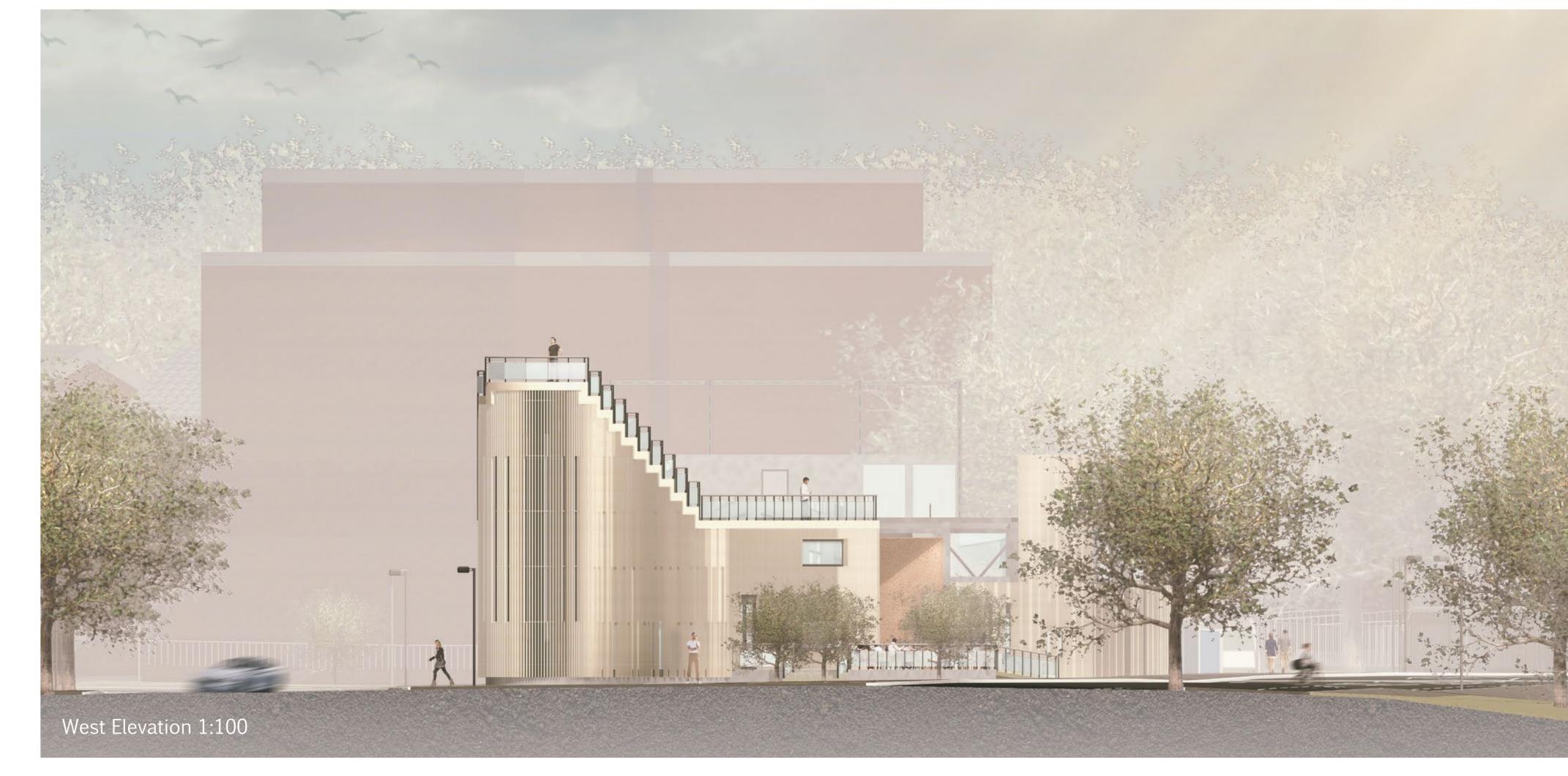
Interior image showing how the cafe space can be connected to the main hall when the bi-folding doors are open creating a space for larger functions.













External view from Robin Hood Way





Cafe and Community Hall Entrance



Daycare External View from Riverside Way



Daycare North Facade detail view









Daycare Internal View Creative Hub Internal View

Internal Walkways and Light-wells

Main Community Hall Internal View