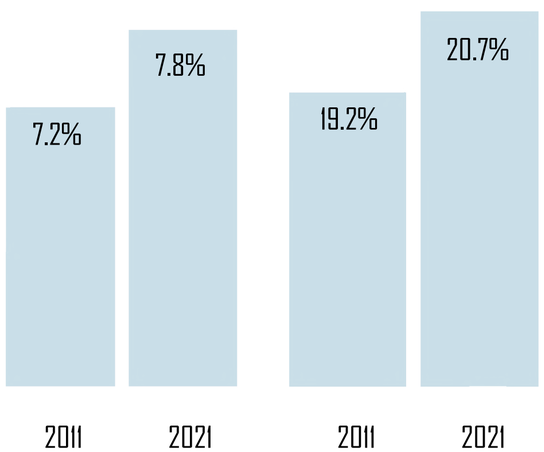
Generational Confluence

This project emerged from research into growing social disconnection between younger and older generations and an exploration of Lincoln's industrial heritage. Through analysing the movement of grain within Doughty's Mill, a design methodology was developed that translated patterns of flow, exchange and production into spatial strategies for intergenerational interaction. From this, circulation, relationships and environmental systems informed the final proposal, with visible rainwater harvesting integrated as both infrastructure and educational tool. The project is relevant to the Innovation, Practice and Process Award because the design outcome is directly shaped by a research-led process that reinterprets heritage to address contemporary social and environmental challenges.



Rising older adult population in Lincoln (ONS, 2021)

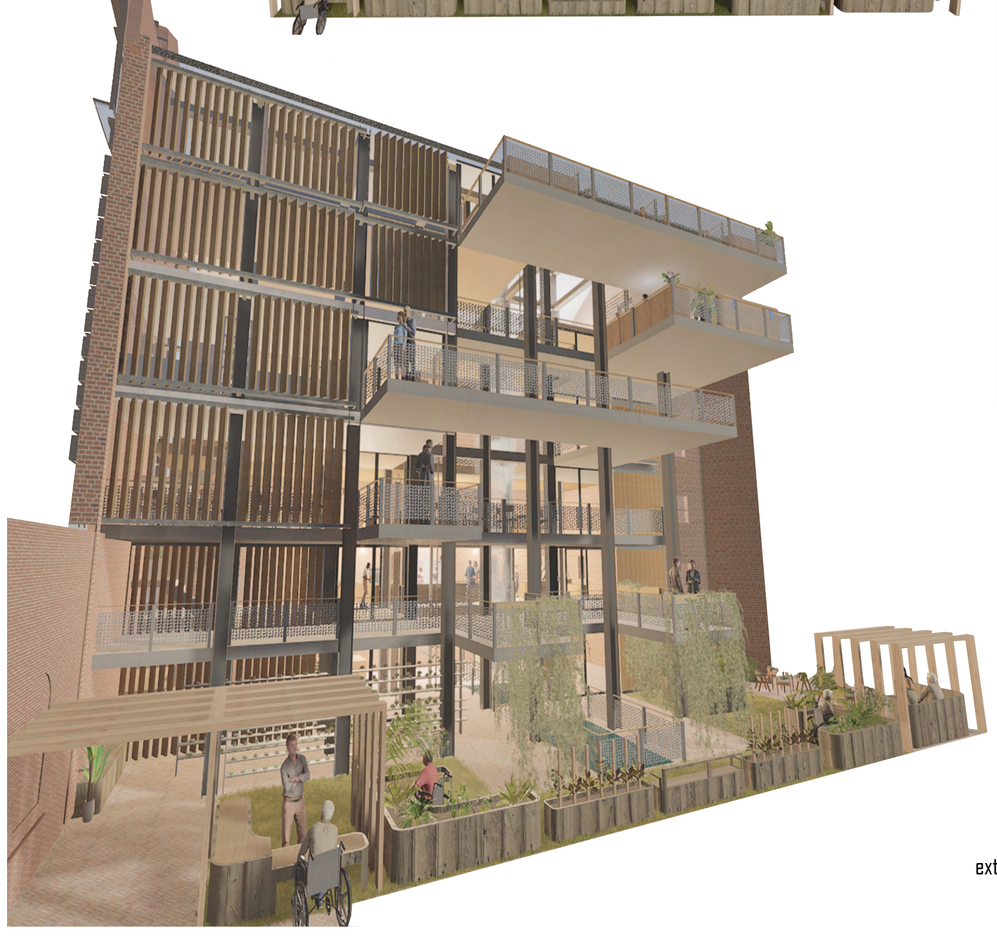
Rising young adult population in Lincoln (ONS, 2021)

1 in 6 older adults in Lincoln are retired (ONS, 2021)

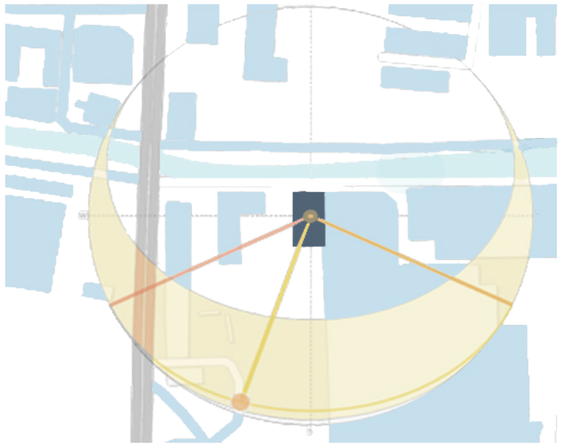
4897 people 65+ live alone in Lincoln (Census, 2021)

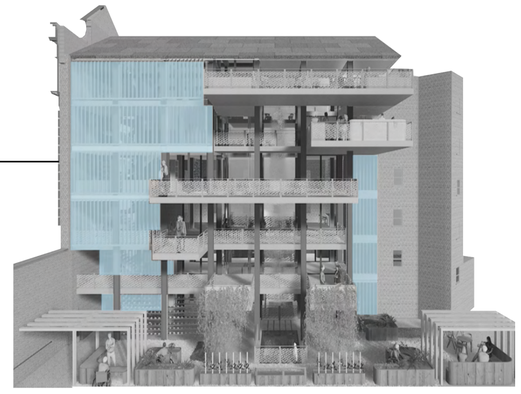
Project explanation

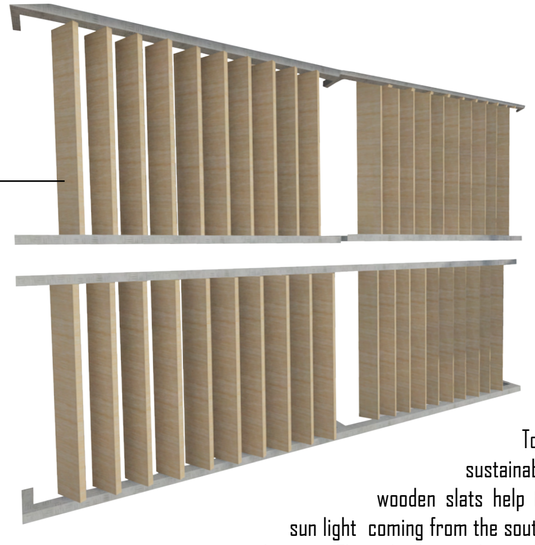
Located at 64 Doughty's court along the river Witham in Lincoln, this project responds to the increasing social disconnection between young adults and older adults. Through the adaptive reuse of a historic mill, the proposal creates and intergenerational environment focused on shared experiences, collective learning and sustainability. Inspired by the original movement of grain through the mill, the building uses vertical and horizontal flow to bring the generations together. This concept also helps to inform circulation and spatial layouts throughout the building. Visible rainwater collection, filtration and reuse helps to connect the building on a deeper level of sustainability. This transforms the former industrial structure into a socially and environmentally regenerative space rooted in heritage and environmental considerations



Sustainability consideration

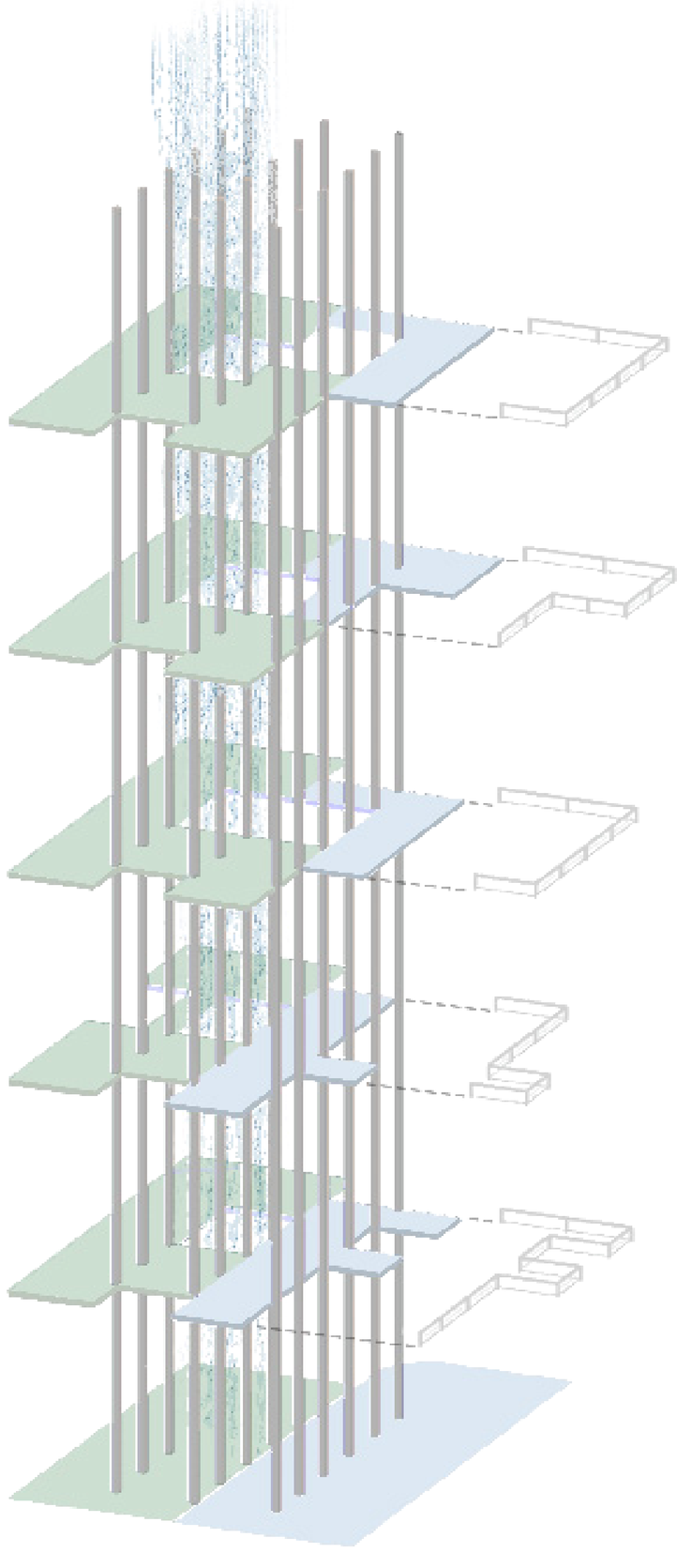




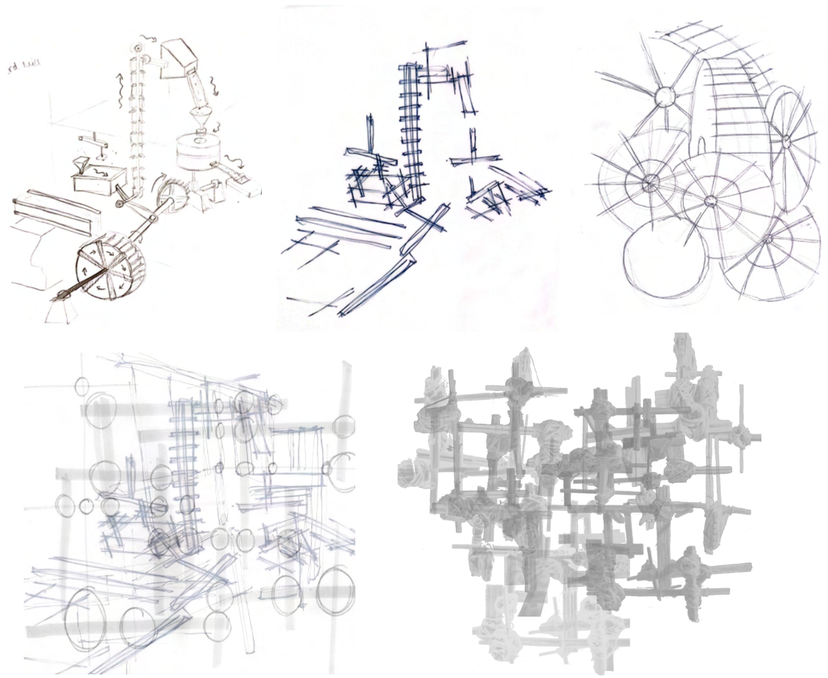


To consider sustainability the wooden slats help to utilise the sun light coming from the south, which then sets in the west. Through allowing these wooden slats to rotate with the sunlight it helps to allow maximum sunlight it when needed, but to allow for shade if necessary. I have also considered this when extruding balconies to ensure shade and light are both provided. This helps relieve usage of mechanical systems and reduce the environmental footprint of a building.

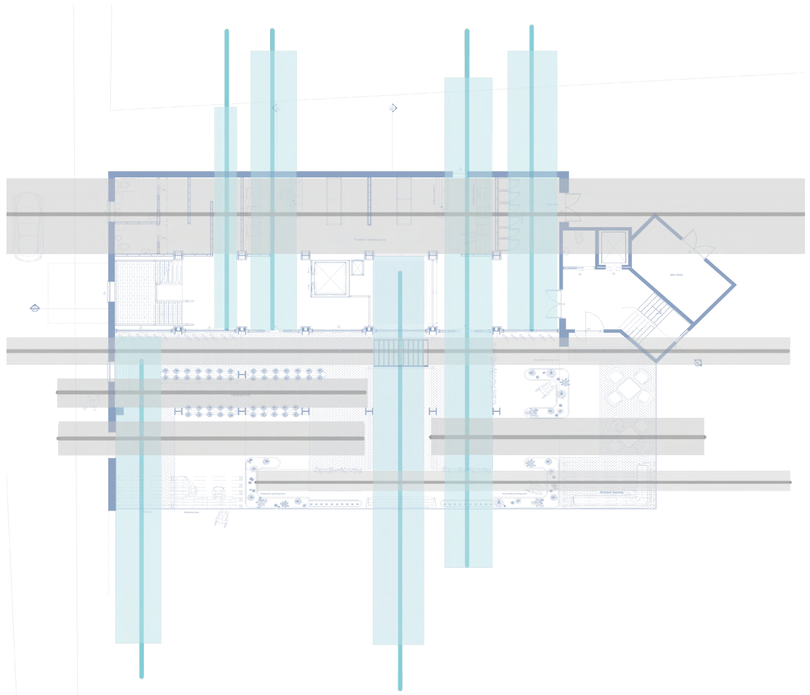
Axonometric



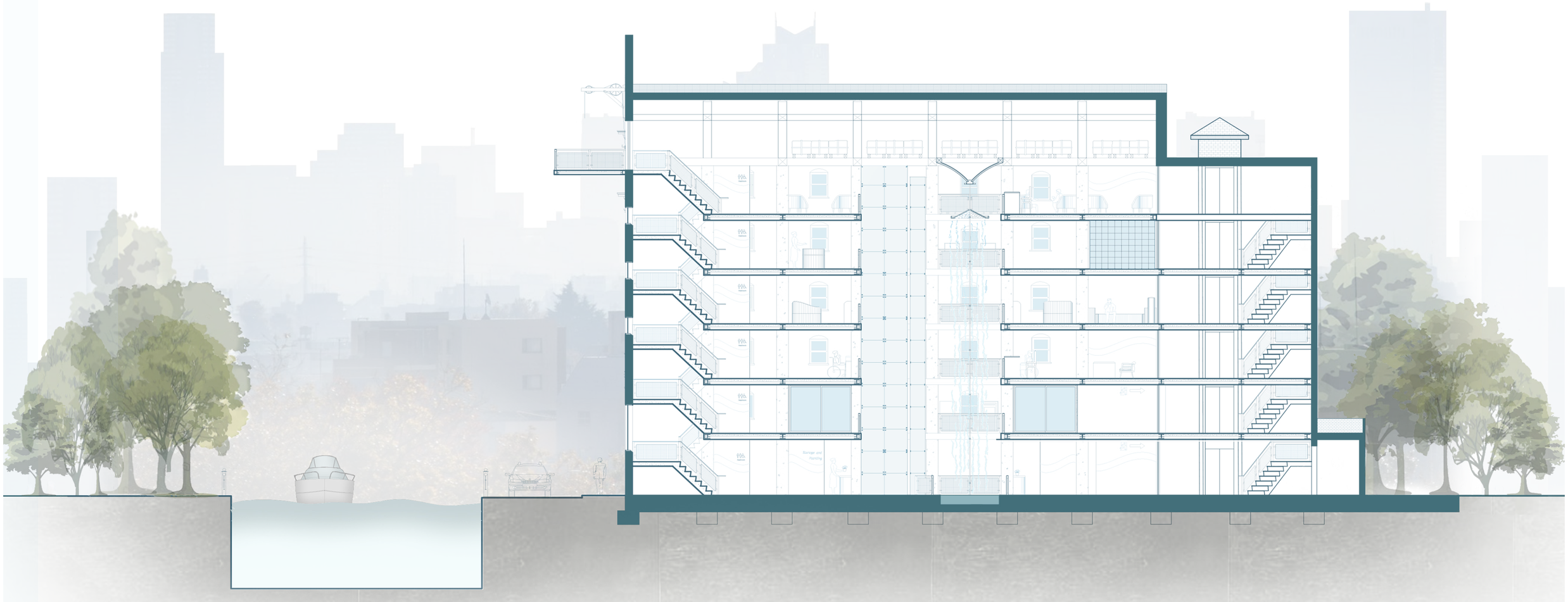
Concept development



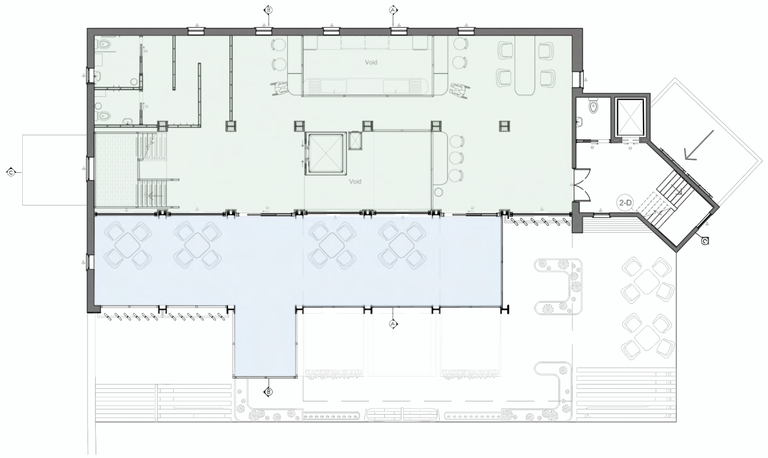
This concept originates from research done into the history of the site and the old use of the building. The original industrial process, where grain was lifted, moved and transformed through vertical and horizontal operations, helped drive the design. The idea of continuous movement and transformation is reinterpreted as both a spatial and social framework. This has shaped circulation, interactions and the exchange of knowledge within the building.



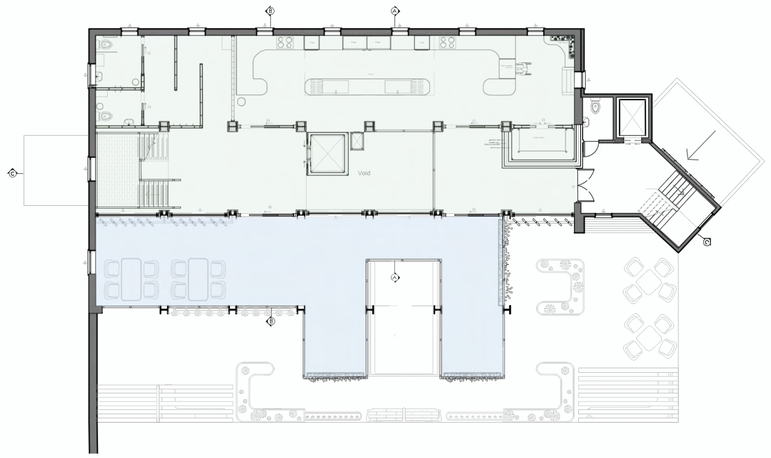
As the concept has evolved, it became less about replicating the mill and more about reinterpreting its logic. The building now operates as a series of interconnected systems connecting generations through social, environmental and spatial design horizontally and vertically. The plan above demonstrates the horizontal spatial layouts which can be found on every floor.



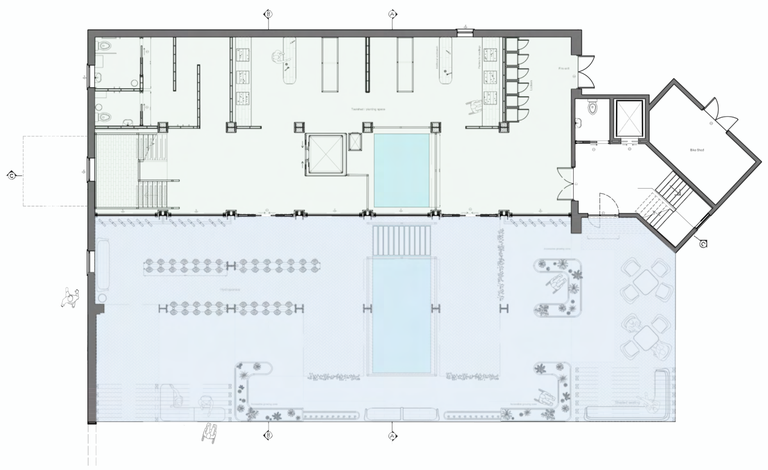
Plans 1:200



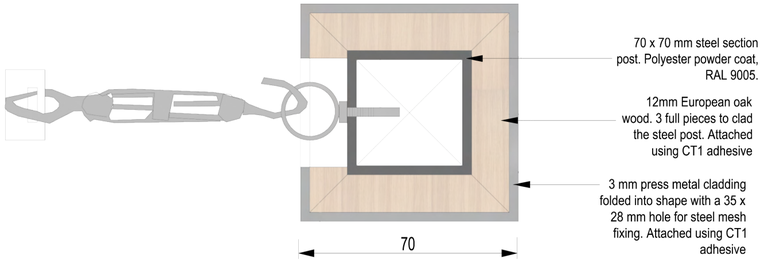
Second floor



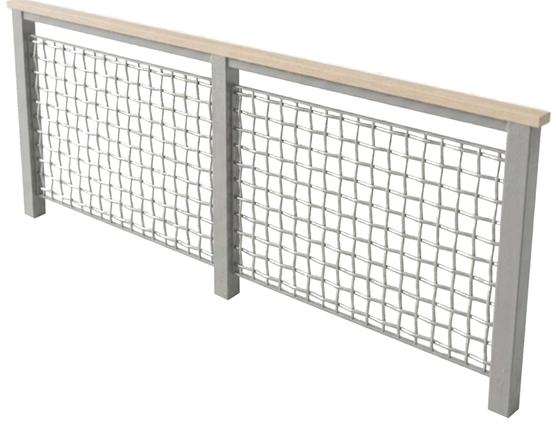
First floor



Ground floor

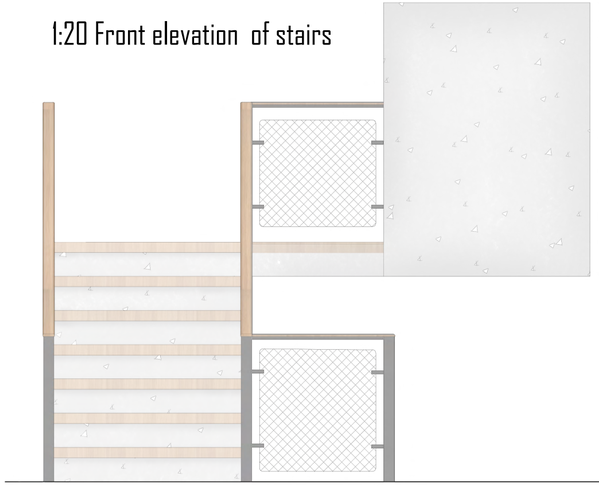


1:1 plan of post - how it connects

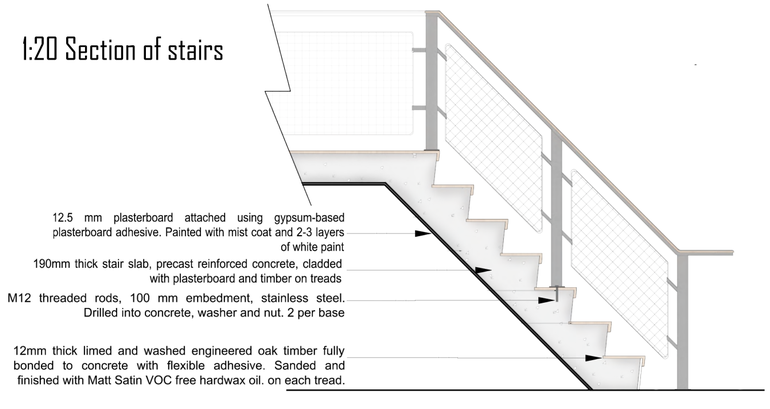


Material consideration is a key part of my concept. Through research of the buildings history, site, and sustainability considerations the materials picked have all been carefully curated to provide a conceptual and practical environment for the users. Key materials such as steel, concrete, wood and glass have been used in conjunction with one another to help bring people and spaces together. For example, the balustrades throughout my building are made from steel and wood. The combination of both a natural and non-natural material creates a balance of old and new. The pairing of these material reflects the connection between the generations who will use the spaces. This honours the heritage of what came before, and embraces a modern approach for the future.

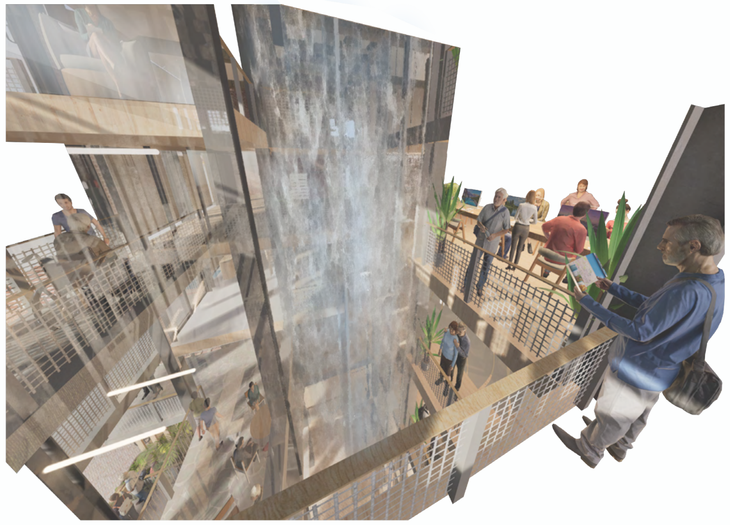
1:20 Front elevation of stairs



1:20 Section of stairs



Breakout balcony with a view of the cafe.



Cafe with kitchen view from above.

Rather than having a counter to order at, QR codes to order food will be placed around the building. This allows people to order food no matter where they are to allow both quick and easy service of food. A dumb-waiter will deliver this food to every floor. This also allows for convenient service. The food will be grown an cooked in-house, by a combination of staff and the users of the building. This gives an opportunity for the young adults and elderly to share and inspire one another over food.

Section AA (Not to scale)