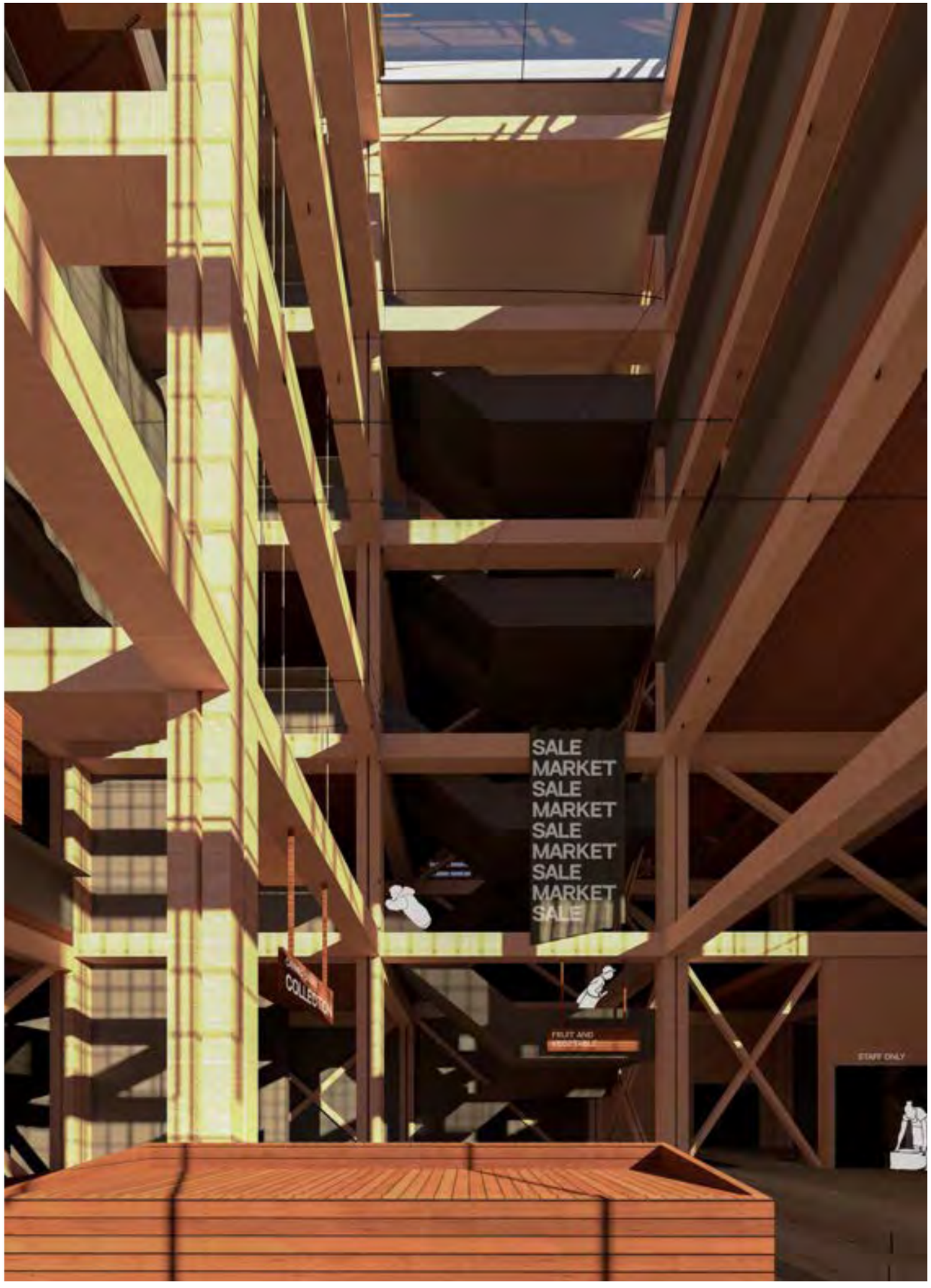
Charlie Oxley

Summary Portfolio

Email: Charliesb.oxley@gmail.com
Phone number: 07501317965
LinkedIn:https://www.linkedin.com/in/charlie oxleyb3102531
Website Link: https://www.oxleyportfolio.co.uk/



My Timeline

Winterbourne International Accademy (2012 - 2019)

A levels : Engineering, Maths Core, Product Design.
Competed in regional Swimming compotions
Started Climbing for the first time
Completed DofE Bronze

University of the West of England (2020 - 2021)

Foundation Year Civil engineering

Transfer University to University for the Creative Arts at end of the year

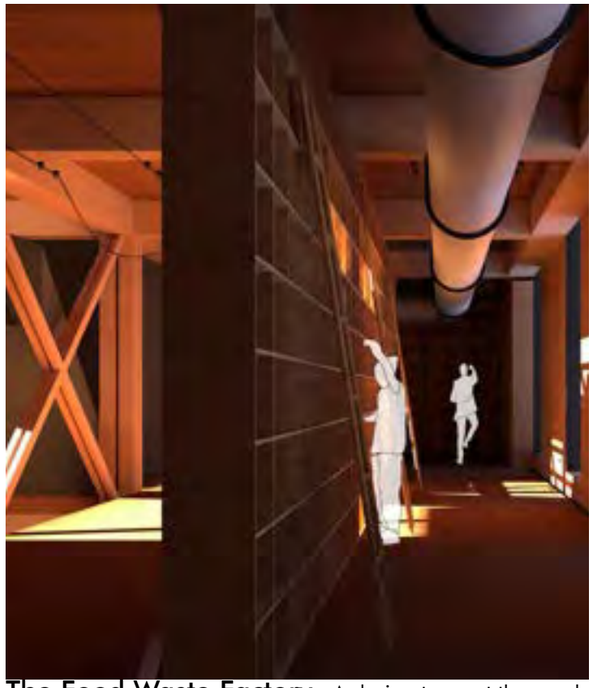
University for the Creative Arts (2021 - 2024)

First Year - 2:1
Projects 01 : Mark 62
Projects 02 : Mark 68
Communication 01: 52
Technology 01 : 50
Cultural Context 01: 60.8

Second Year - First Class
Projects 03 : Mark 68.6
Projects 04 : Mark 71.95
Communication 02: 80
Technology 02 : 80
Cultural Context 02: 60
Creative Practice 01: 71.4
Started climbing
Competed in first climbing competition
placing unranked

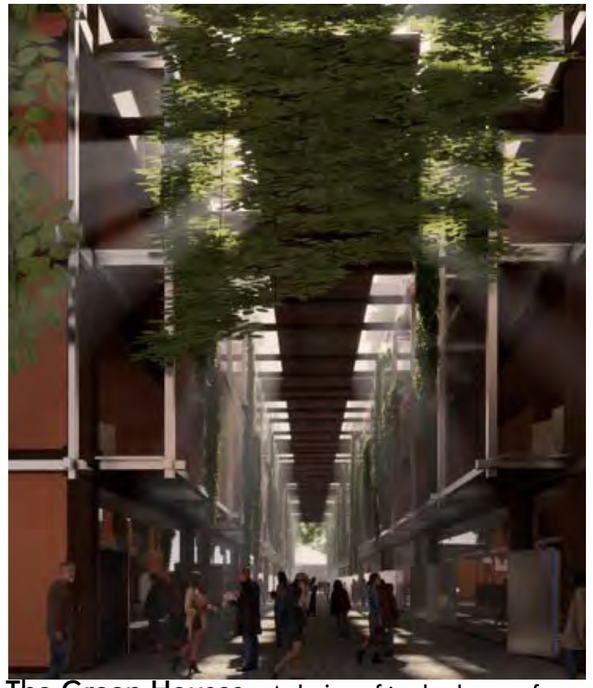
Third Year - First Class
Projects 05 : Mark 70
Projects 06 : Mark 70.65
Research Thesis : Mark 71
Creative Practice 01: 65.4
Competed in Second climbing competition
placing 35th

Degree Classification : First Class
Final Mark : 70

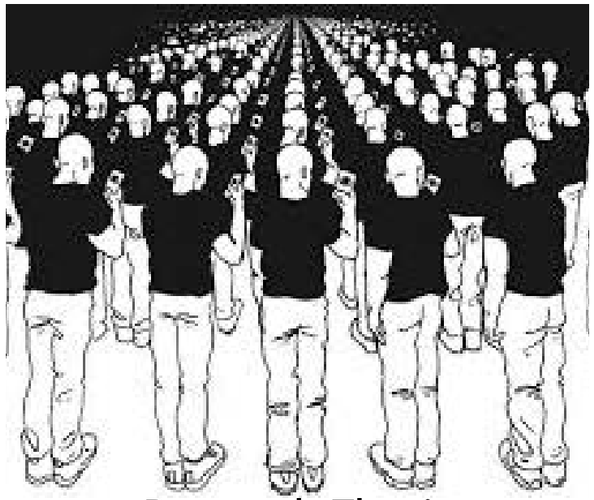


The Food Waste Factory - A design to meet the needs of Milan's ever-increasing food waste problem. Focused on repurposing food waste in a sustainable building that also provided community and commercial spaces. Effective model making using Rhino 7 alongside proficient use of Vray enhanced understanding and the aesthetic appeal of this proposal.

The Dead Space Archive – Delivered a brief involving the archiving of community dead spaces which extended my research and development skills. I deepened my knowledge of sustainability and enriched my proposal by utilising modelling software and rendering to add realism.



The Green Houses – A design of twelve houses for a live work community where residents grow and sell produce from allotments situated on the rooves. Skills employed in this design include physical model making, rendering and the development of 3D modeling skills.

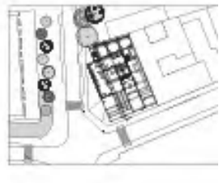


Research Thesis

How invasive is the surveillance conduced within the urban enviroment and does the surveiullance lead to the betterment of urban living?

Longditudenal Section
West to East
Scale 1 : 50 @ A0

1 Entrance
2 Entrance to Sorting Facility
3 Stairs
4 Lift
5 Food Waste Containers
6 Dumb Waiter
7 Storage Container
8 Control Room
9 Recycling Process
10 Soup Kitchen
11 Kitchen School Kitchens
12 Kitchen School Seating and presentation room
13 Sorting Facility Viewing Platform
14 Communal Bar
15 Viewing Platform with Restaunt Bar space
16 Professional Restaunt
17 Alcohol Factory
18 Herb Gardens



Food waste factory Longditudenal section 1-50 @ A0

Green house exploded anxonometric

Dead space representation model

Green house interior render

Construction Diagram

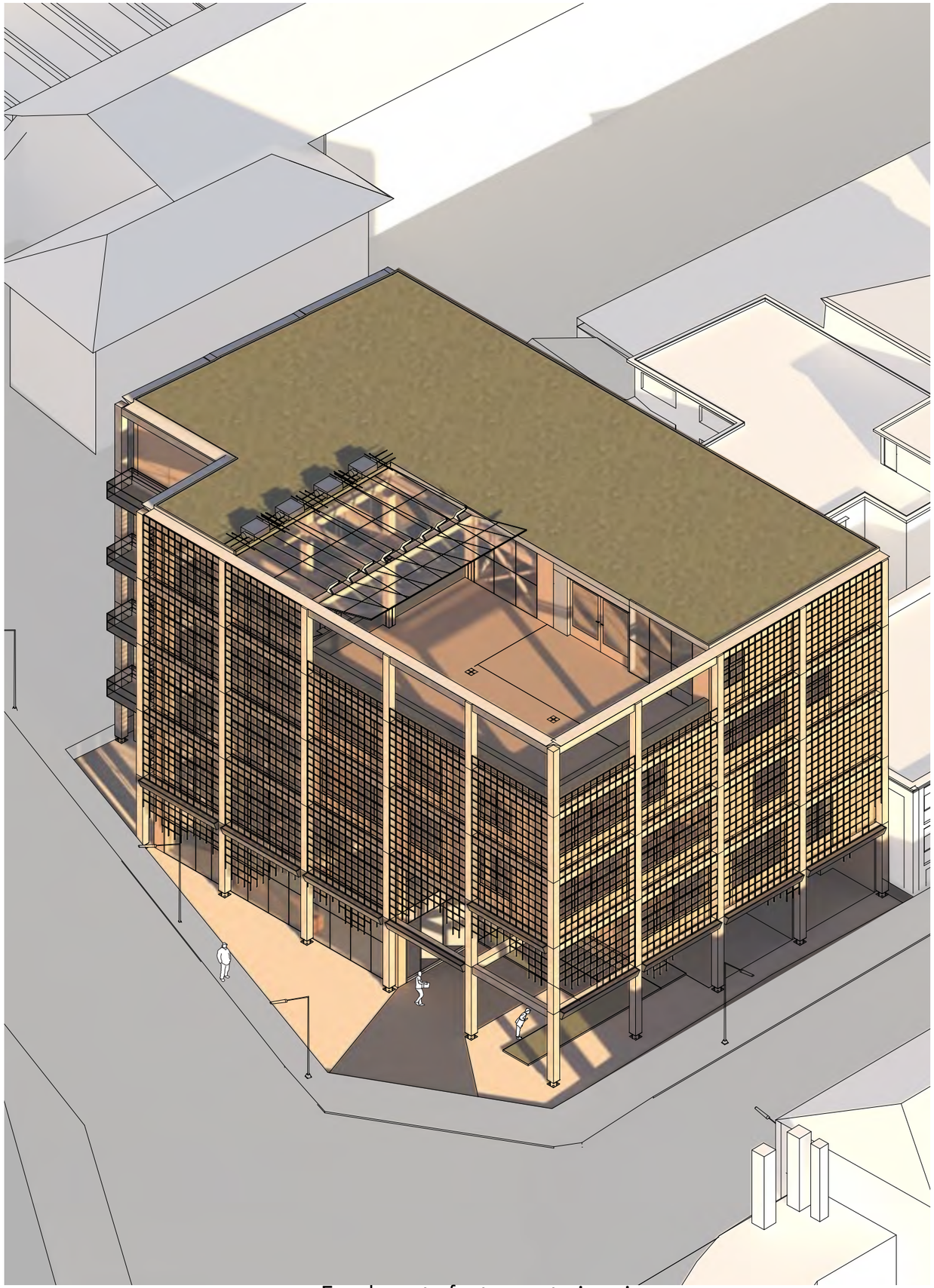
Phase One
1 Base Plate
2 Super Strucutre is assbmbled

Phase Two
1 CLT Flooring are assembled
2 CLT Walls are assembled

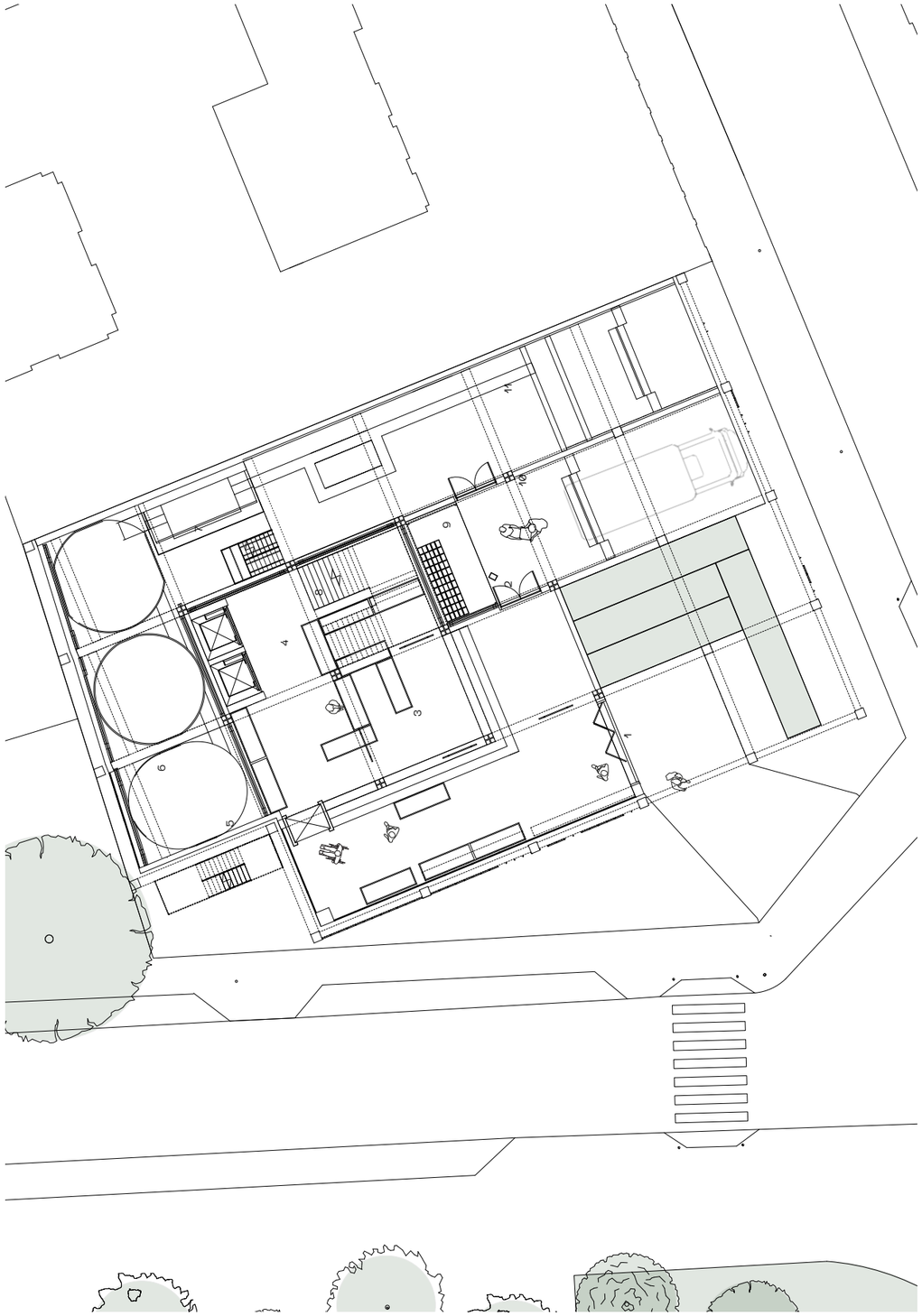
Phase Three
1 Remaininf floor layers are assembled
2 Remaining wall layers are assembled
3 Stairs are assembled
4 Kitchen wooden beams are installed
5 Window Frame are constructed
6 Double galazing is installed in to the frames
7 Large Windows are the front of the building are installed
8 Door frames are installed
9 Doors are installed though out the house
10 Large bay doors at the front of the house are installed
11 Soil is deposited in the roof top garden
12 Grass seeds are sown

Phase Four
1 Steel Frame work is installed arount the exterior of the building
2 Steel Flooring along the frame work is installed
3 Steel Chain fencing is installed around the buidling
4 Comunity Bridges are installed
5 Steel Fence Bridges are installed
6 Steel Steps to upper gardens are installed
7 Steel banisters are installed arround the exteior gardens
8 Vines are encouraged to grow allong the exterior frame work around the site

Green house construction diagram



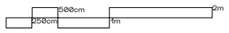
Food waste factory exterior view



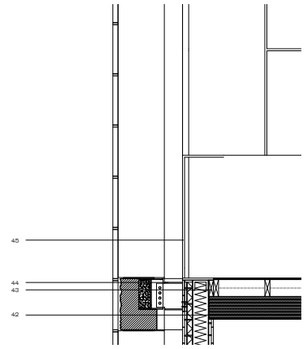
Food waste factory plan

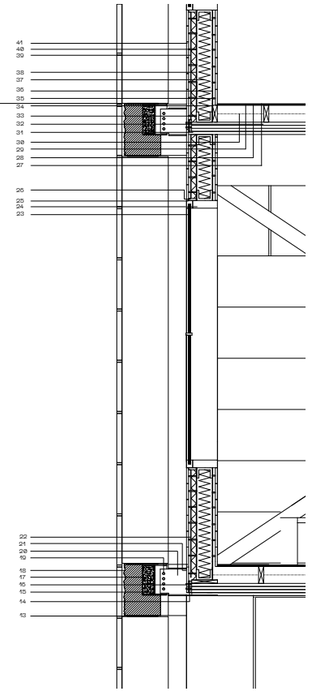
Dead space representation model

A1 Bay Study 1 : 20

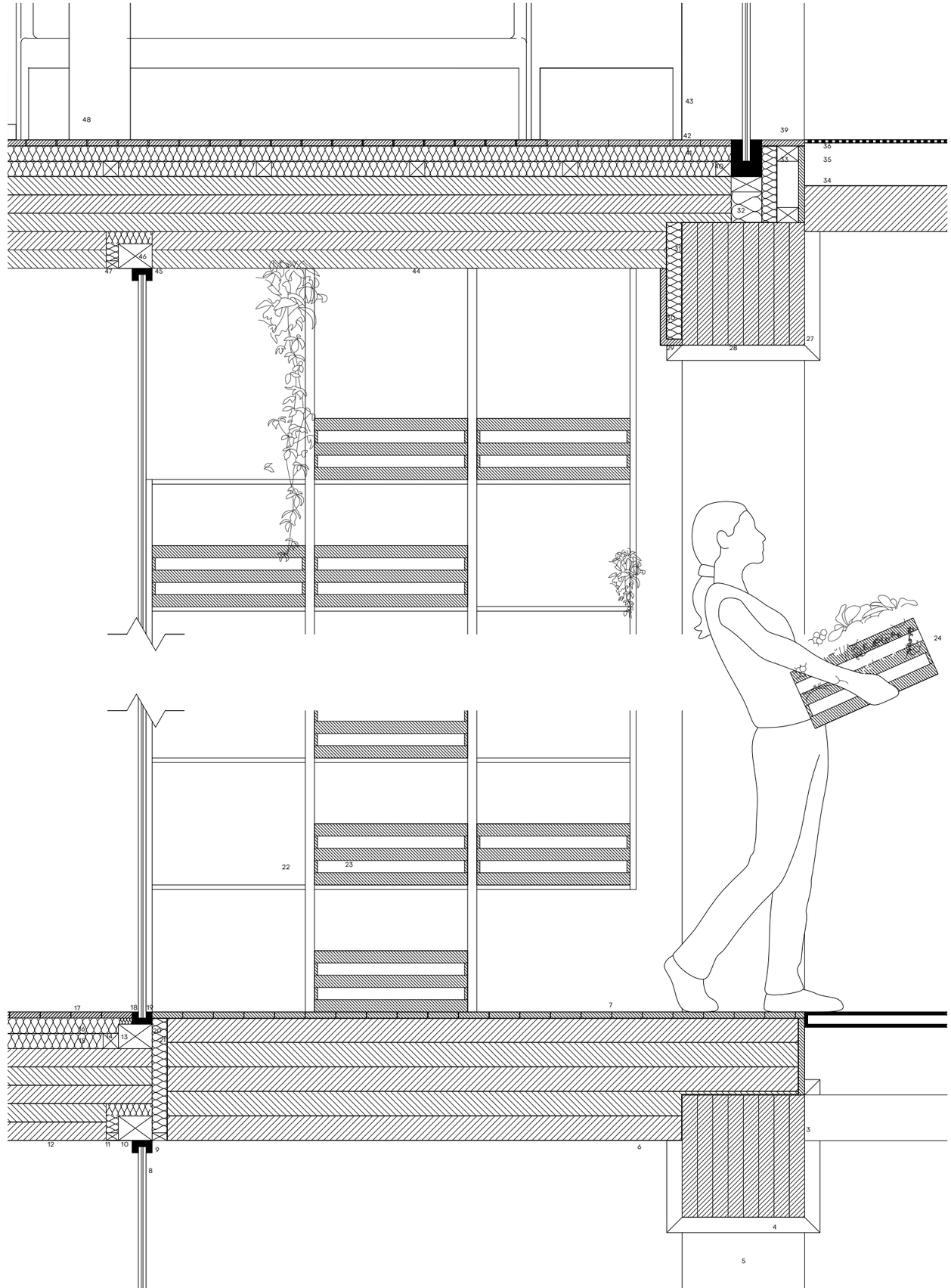


1 Rought Stone Exterior Flooring
2 Renforced Concrete
3 Steel Bolts
4 Steel Connection Ground to Stone
5 Concrete Skreed
6 Waterproof Membrane
7 Thermal Membrane
8 Grannite Stone Paving Exterior
9 Lattice Structure
10 Steel Connection Screw
11 Steel Suspended Garden Box
12 Soil
13 Steel Stone Connection
14 Glavanised Steel Beam Connection
15 Galvanised Steel I Beam
16 Steel Fixing Bolts to Clt Flooring
16 Securing Motar
17 Steel Bolts secring Stone to Steel
18 Steel Plate Connection
19 Thermal Seperation Barrier
20 CP Board
21 Tripple Glased Window
22 Steel Window Frame
23 Steel Curtain Wall Framing
24 Compressed Innsulation Fire Barrier
25 Oak Wooden Flooring
26 Sound Softening Membrane
27 Breathable Membrane
28 Innsulation
29 CLT
30 Wooden Beams
31 Steel Framing System
32 Wooden Fire Barrier Beam
33 Interior Oak Wooden Pannels
34 CP Board
35 Hard Innsulation
36 CP Board
37 CP Board
38 CP Board
39 Exterior Accustic Innsulation
40 Wooden Connections Facade to Steel Frame
41 Exterior Oak Wooden Pannel Facade
42 CLT Flooring
43 Wooden Beam Fire Barrier
44 Steel Barrier Connection
45 Steel Barrier





Food waste factory 1-20 bay study

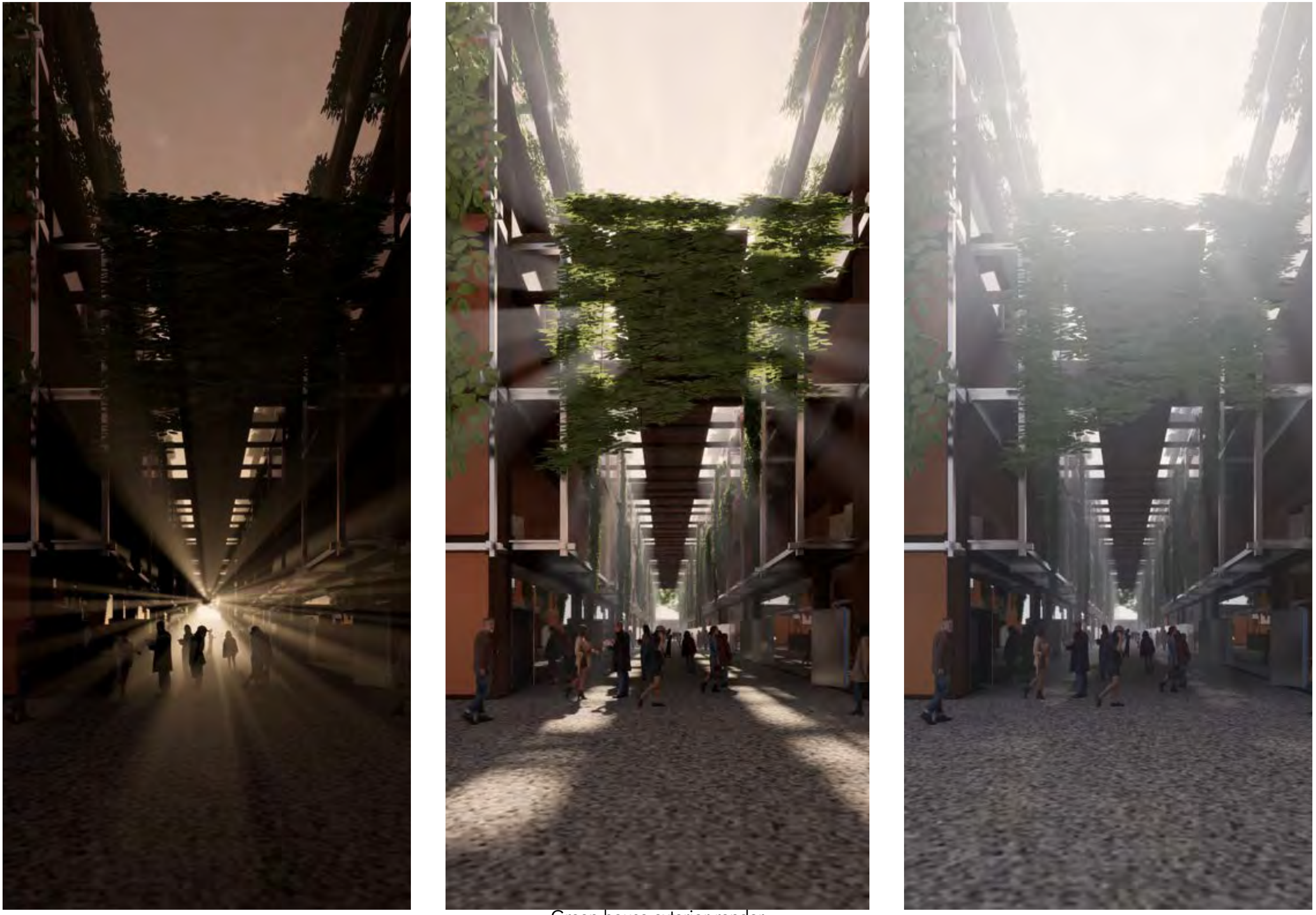


Green house bay study

Food waste factory sectional render

Food waste factory sectional render

Dead space mappings



Green house exterior render