LUS

CULTIVATING AN APPRECIATION FOR URBAN FOOD PRODUCTION

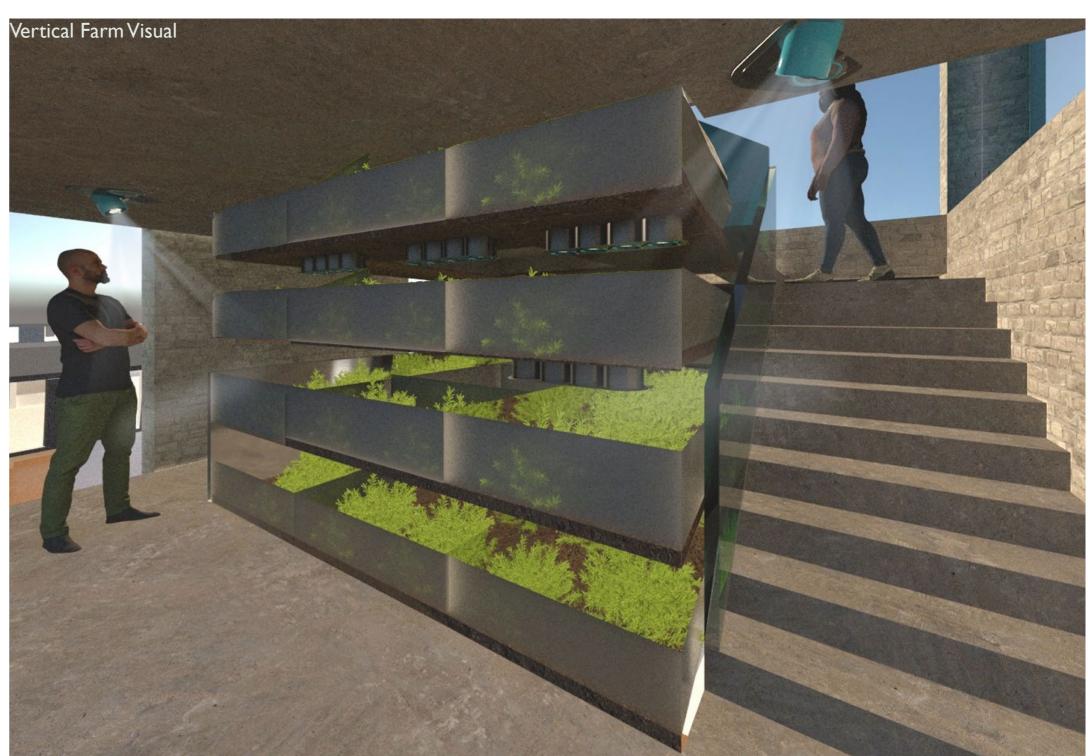
Bethan Evans

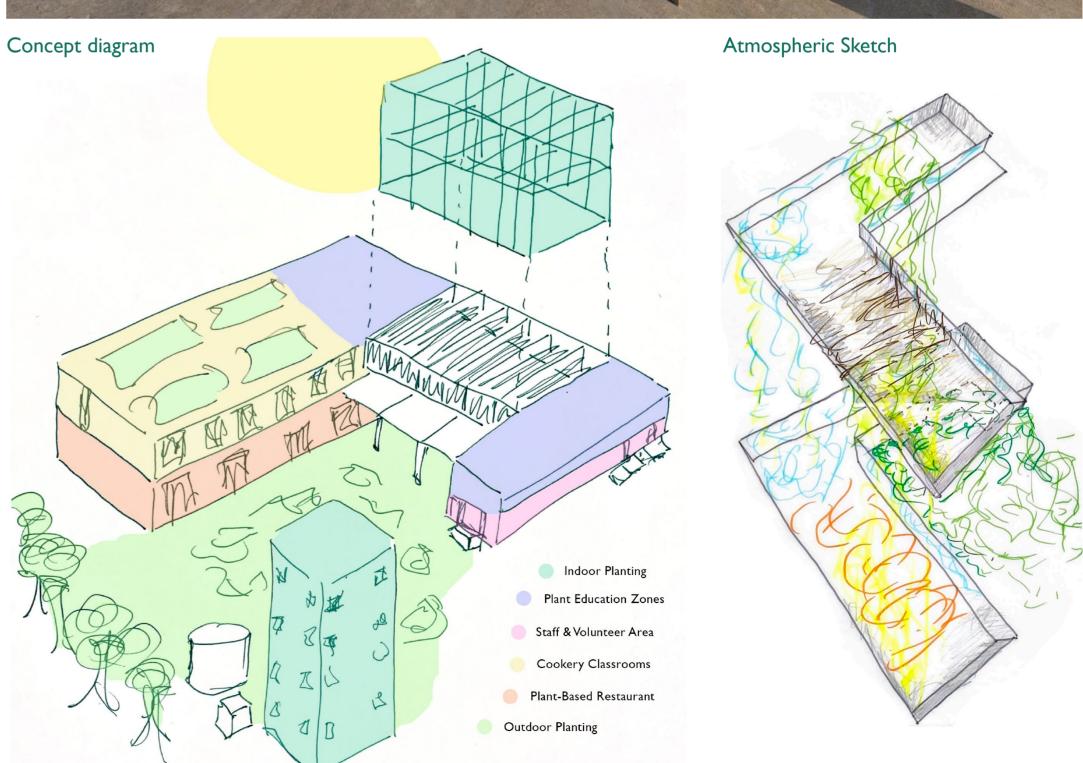
'Lus', Gaelic for 'Plant', is a centre for growing, cooking and eating plants in Edinburgh's existing McDonald Road Fire Station. The project aims to tackle current health issues and offers an approach to the future of food security.

The centre's community greenhouse, outdoor plant beds and vertical farm grow produce to be used in the restaurant and cookery school, whilst encouraging inter-generational interaction and an appreciation for nature. The restaurant only serves plant-based food in response to the role played by meat and dairy in climate change, and also has a self-service system to help tackle food waste. The cookery school also teaches children and young people how to prepare fruit and vegetables in a simple and appealing way.

The design incorporates water recycling and contributes to the urgency of climate change action with carbon capturing from the plants. The existing fire drill tower has been transformed into the centre's 15-metre high vertical farm, which is not only a spectacle for visitors but also functions to grow large yields of vegetables in a built-up urban area.

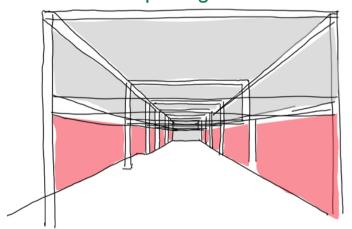


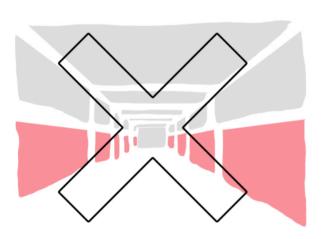


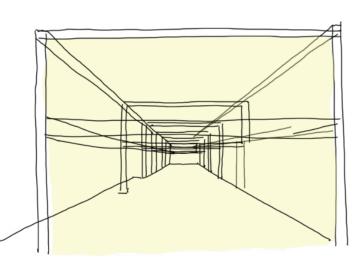




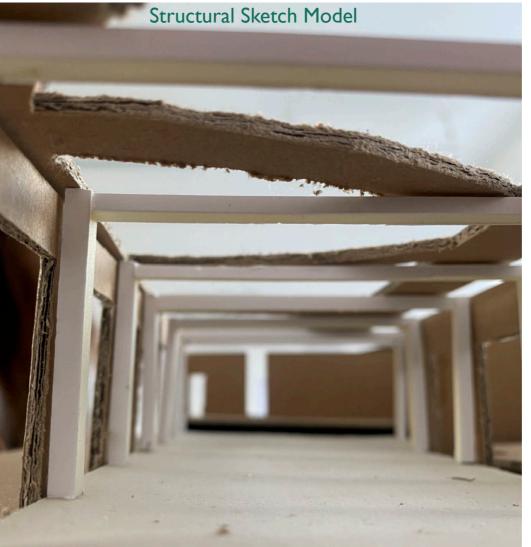
Structural Concept Diagram







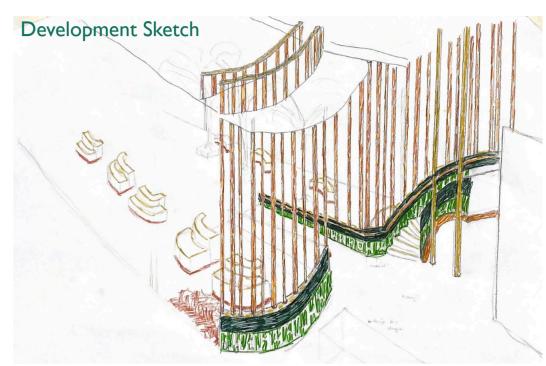




The main space in the design is the double-height Greenhouse Room, in the existing fire engine bays.

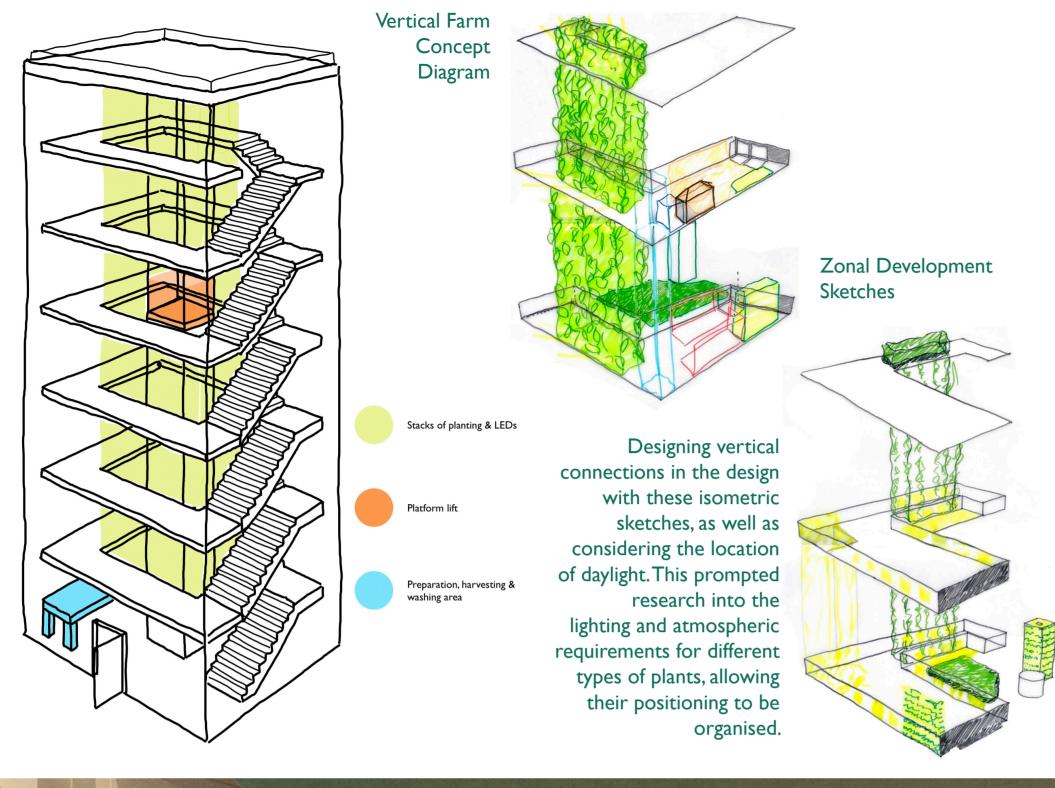
This had the most significant structural intervention, with skylights introduced, walls turned into glazing and the floor turned into walkways.

As a result, daylight is abundant in the space, allowing plants to grow indoors, protected from the outside elements.

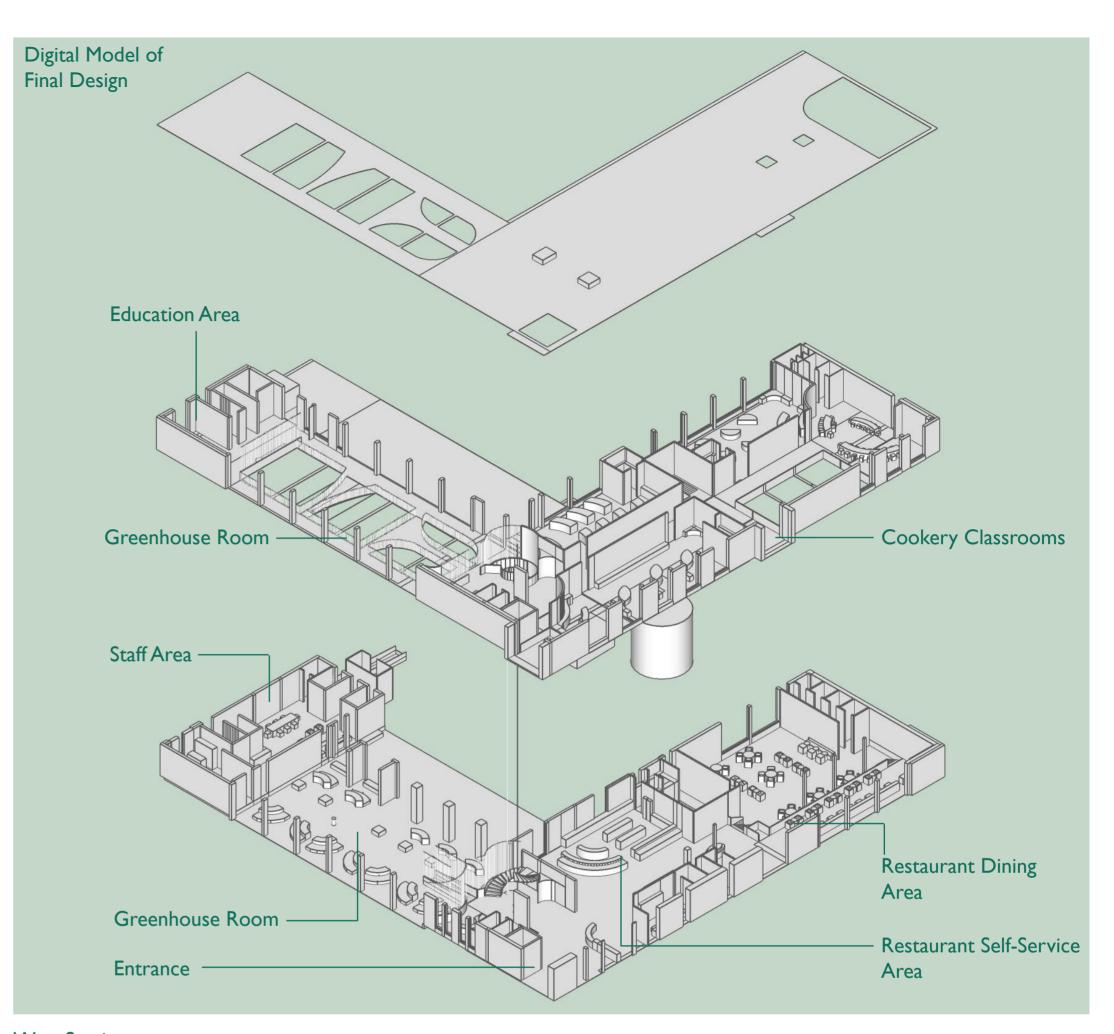


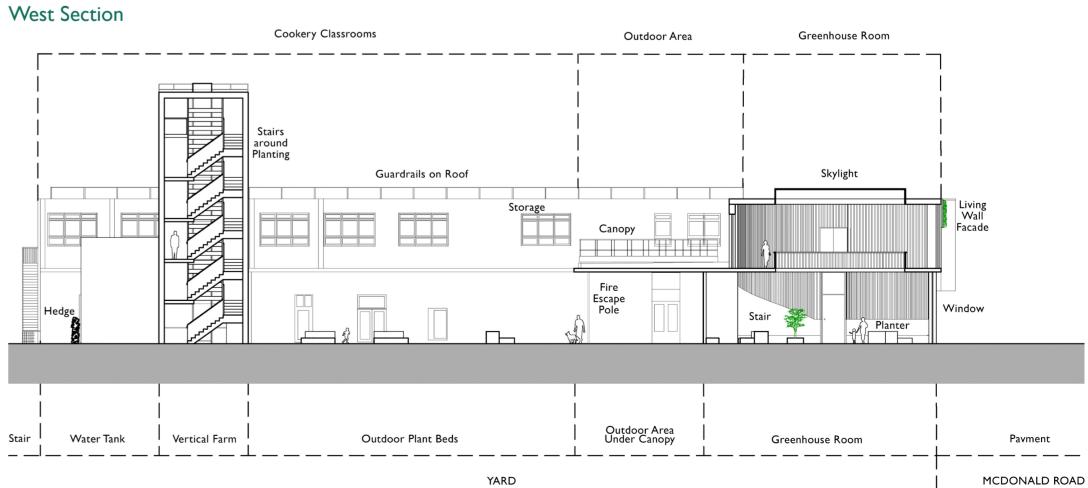
Ground Floor Finishes Plan

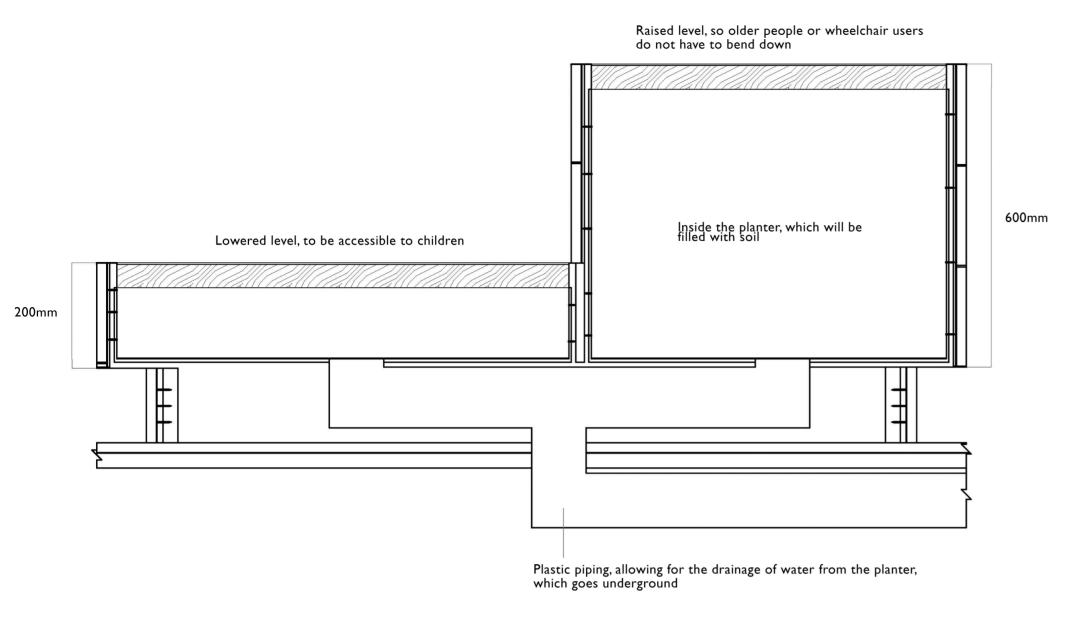


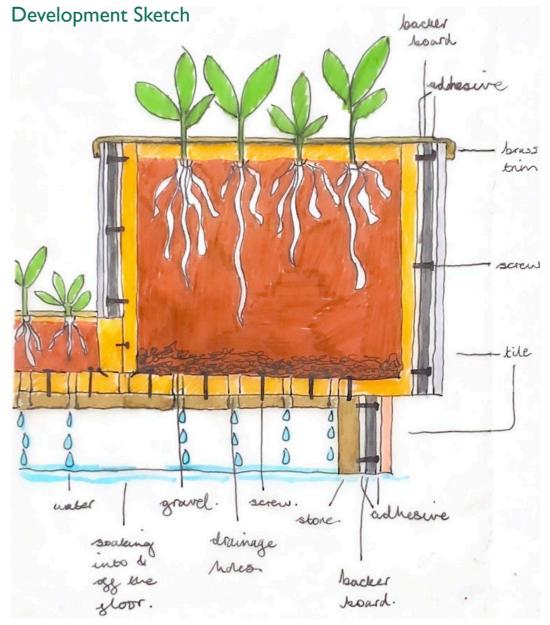


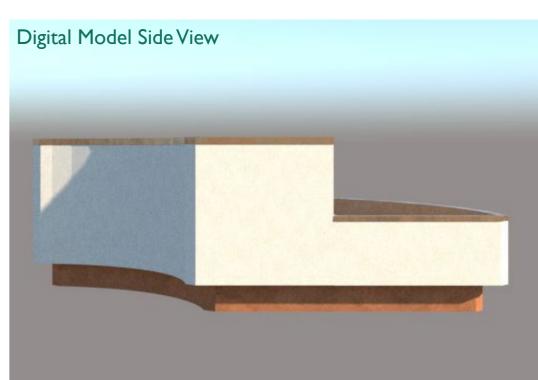


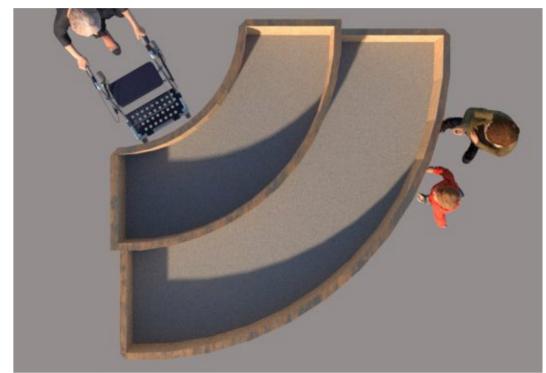


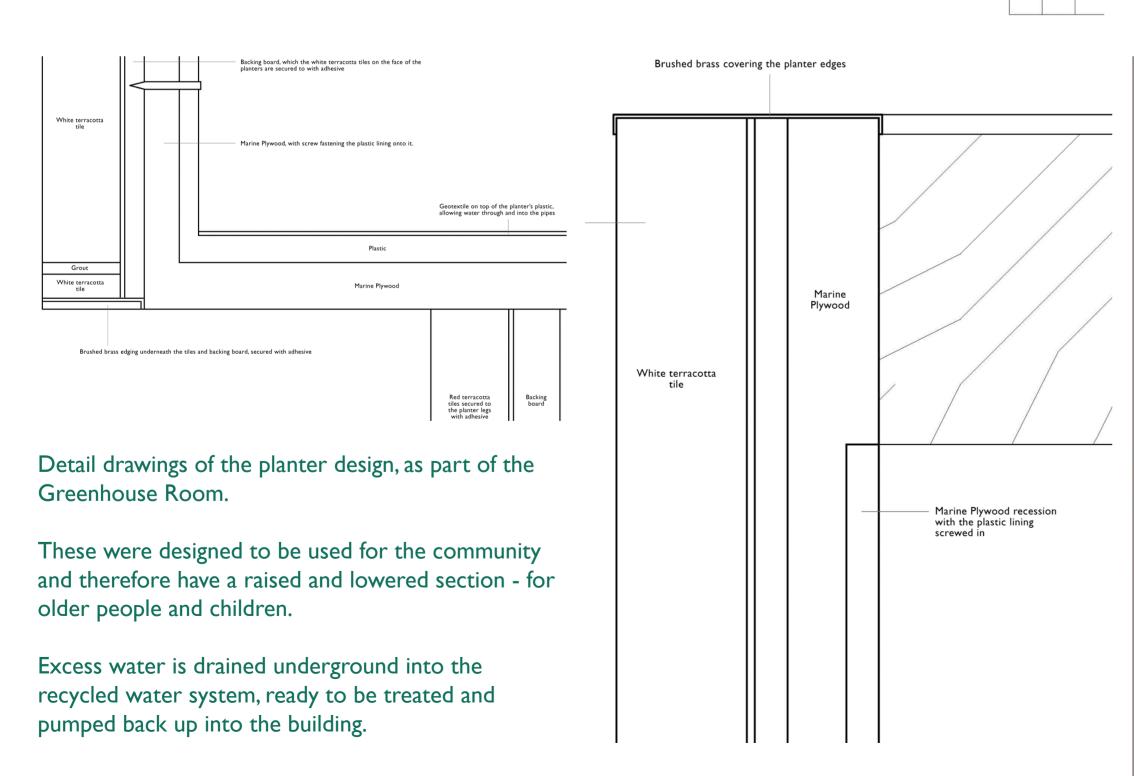
















Restaurant Dining Area

Fire

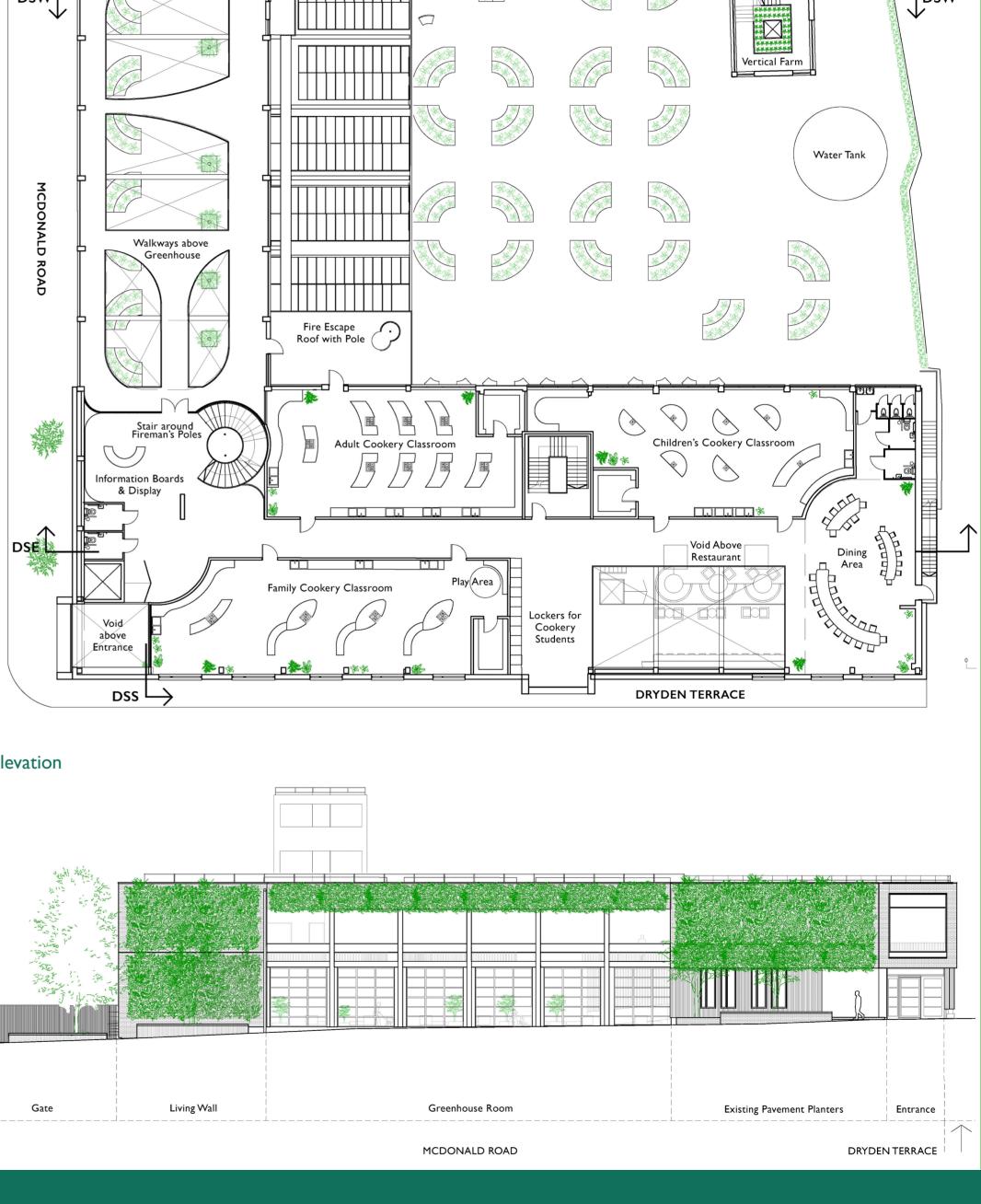
Education Area

MCDONALD ROAD

Restaurant Kitchen and Self-Service Area

Fire Escape Stair

DRYDEN TERRACE



DSW