

ONE WILDERSLOWE

Elderly homes

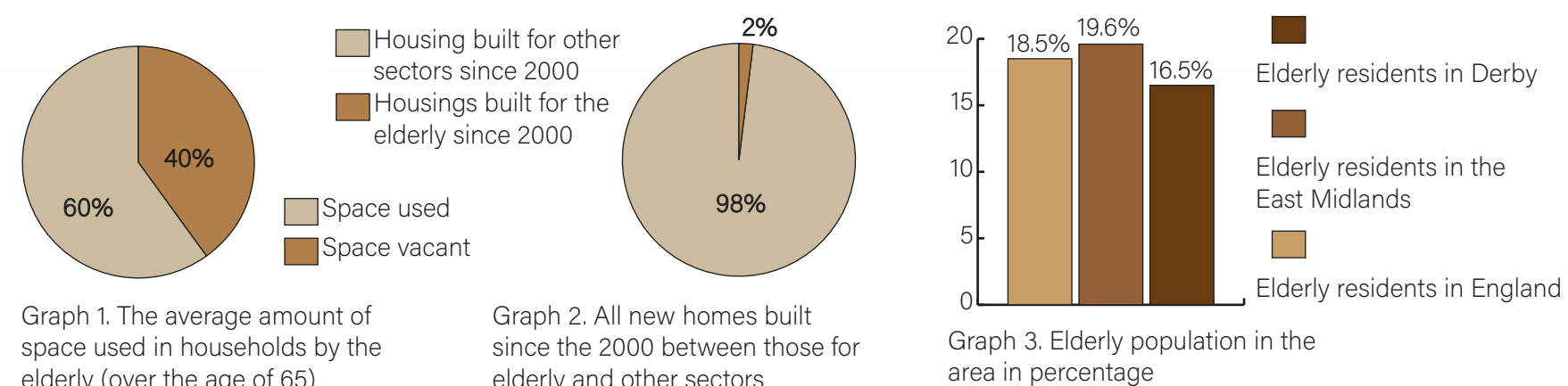


SECTION AA
Scale 1:125

DESIGN BRIEF

One Wilderslowe is a proposal for elderly housings located in Derby, UK with an intention of solving problems related to insufficient housing for the elderly while contributing to the overall community at the same time. The proposed intervention can accommodate 12 residents in 11 separated flats. While the entire first floor consists of private quarters for residents and communal kitchen with a dedicated dining space, the ground floor has more of a public character and accommodates a lounge, a dining area and a café which is open to non-residents.

The project not only aims to tackle the insufficient housing problem within the Derby area, the goal is also to create a space that allows the elderly to live safely, and even uplift and elevate their quality life.



Graph 1. The average amount of space used in households by the elderly (over the age of 65)

Graph 2. All new homes built since the 2000 between those for elderly and other sectors

Graph 3. Elderly population in the area in percentage

The majority of the elderly who reside in their own home only use up to 40% - 60% of the space, however, the insufficient numbers of elderly homes available to them have prevented some to downsize (Mayhew L., 2020). Furthermore, some cite the lack of functionality and designs of the currently existing elderly homes that prevent them from moving.

The problem is even more significance in Derby which is where the project is located in, the number of elderly residents in the area take up to only 16.5% compared to 19.6% for the East Midlands area and 18.5% nationwide. Interviews with local organizations also found that there is a long waiting list for those wanting to move into an elderly home with the most popular reason as looking for the elderly community to join.

SOLUTIONS



Fostering community



Nature connectedness and Biophilic design



Historic preservation

The proposal will create a community for not only those who live in this housing but also for those who live nearby. Through additional spaces provided such as café, communal spaces and large gardens, the project provides spaces that encourage a strong sense of community while creating more jobs for those who want to work at the same time. Having a café on the ground floor will not only function as a public space where the elderly can meet and spend time together but will also allow them to have a job which leads to the elderly feeling more connected to the community and giving them more life purposes.

The use of the Biophilic design is integrated throughout the building as it has been proven to have positive impacts on humans both physically and mentally. The research found an improvement in the aspects of mental health, well-being, stress recovery, creativity, productivity, memory and recognition (Gillis & Gatersleben, 2015, Hung & Chang, 2021, Peters & D'Penna, 2020, Ryan et al., 2014).

The Wilderslowe house is a historical building with significance heritage, it is located in Derby and has become abandoned as of 2021. By turning the site into elderly housing will not only enable more accommodations for those in need but will also save a historical building that helped shape and define Derby into what the city is today.

SITE PLAN & CONTEXT



- Wilderslowe house
- Nightingale quarter site
- Existing elderly housing
- London Road community hospital
- Shops, restaurants and amenities
- Derby midland train station
- Derby bus station
- Churches



- Highest temperature in July at around 16.5 °C
- Lowest temperature in January at around 4.2 °C



- Highest number of rainy days in January at around 12.40 days
- Lowest number of rainy days in September at around 9.70 days

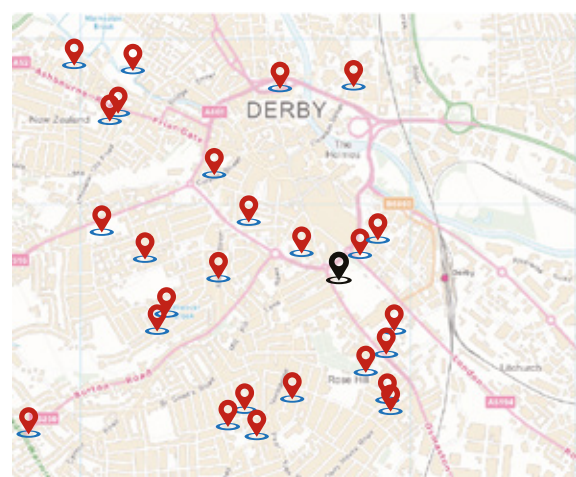
- Pedestrian pathway/circulation
- Vehicle pathway/circulation

- 11 minutes walk to the Derby bus station
- 12 minutes walk to the Derby midland train station
- Bus stop located right in front of the site

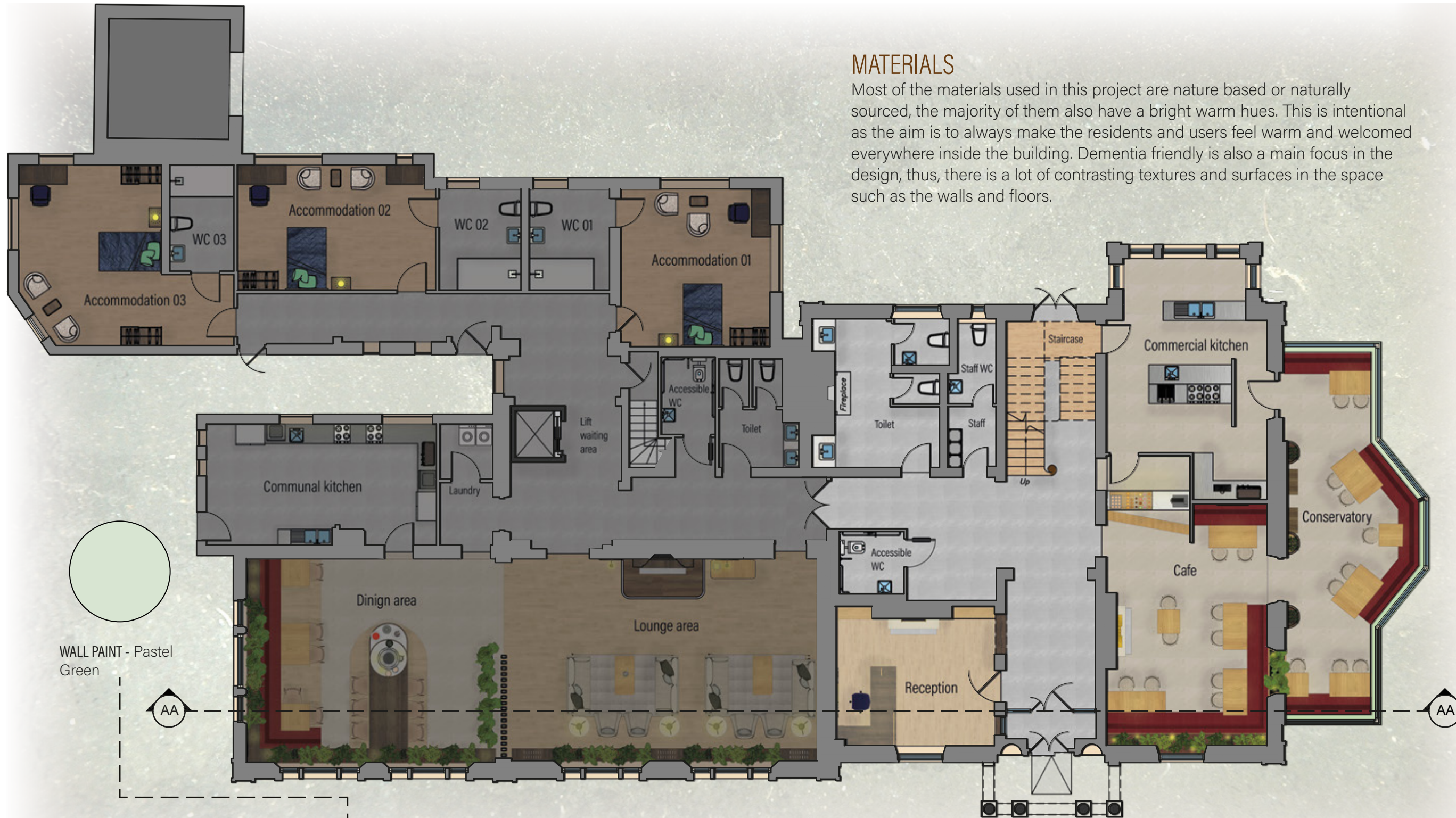
CURRENT ISSUES

As of 2021, there is around 26 elderly homes in the Derby city area, despite the significantly high amount in numbers, most existing housings contain relatively few amounts of accommodation, the average ranging from 10 - 30 accommodation units per site.

Privately owned housing is more common than a council or public owned. Most properties sit on the main street/ road in the city area, however, not necessarily close to the shops and amenities. Some accommodations are as far as 30 minutes walk to the city centre despite being in the city area.



- Wilderslowe house
- Other elderly housings



MATERIALS

Most of the materials used in this project are nature based or naturally sourced, the majority of them also have a bright warm hues. This is intentional as the aim is to always make the residents and users feel warm and welcomed everywhere inside the building. Dementia friendly is also a main focus in the design, thus, there is a lot of contrasting textures and surfaces in the space such as the walls and floors.

WALL PAINT - Pastel Green

GROUND FLOORPLAN
Scale 1:125



RECEPTION area comes with a bar where the residents and locals can throw away their expired medicines as part of the regenerative project.

GROUND FLOOR - PUBLIC SPACE

The public space on the ground floor consists of the reception on the left handside, a cafe with a conservatory on the right from the entrance. The cafe has been designed to seat up to 40 people with some extra spaces designed to cater for the circulation of wheelchair users. The space is designed to maximise the use of sunlight as this will not only help reduce the use of electricity but will also allow those inside the space to connect with nature more. The commercial kitchen is located at the back where the elderly residents are also allowed to work at.

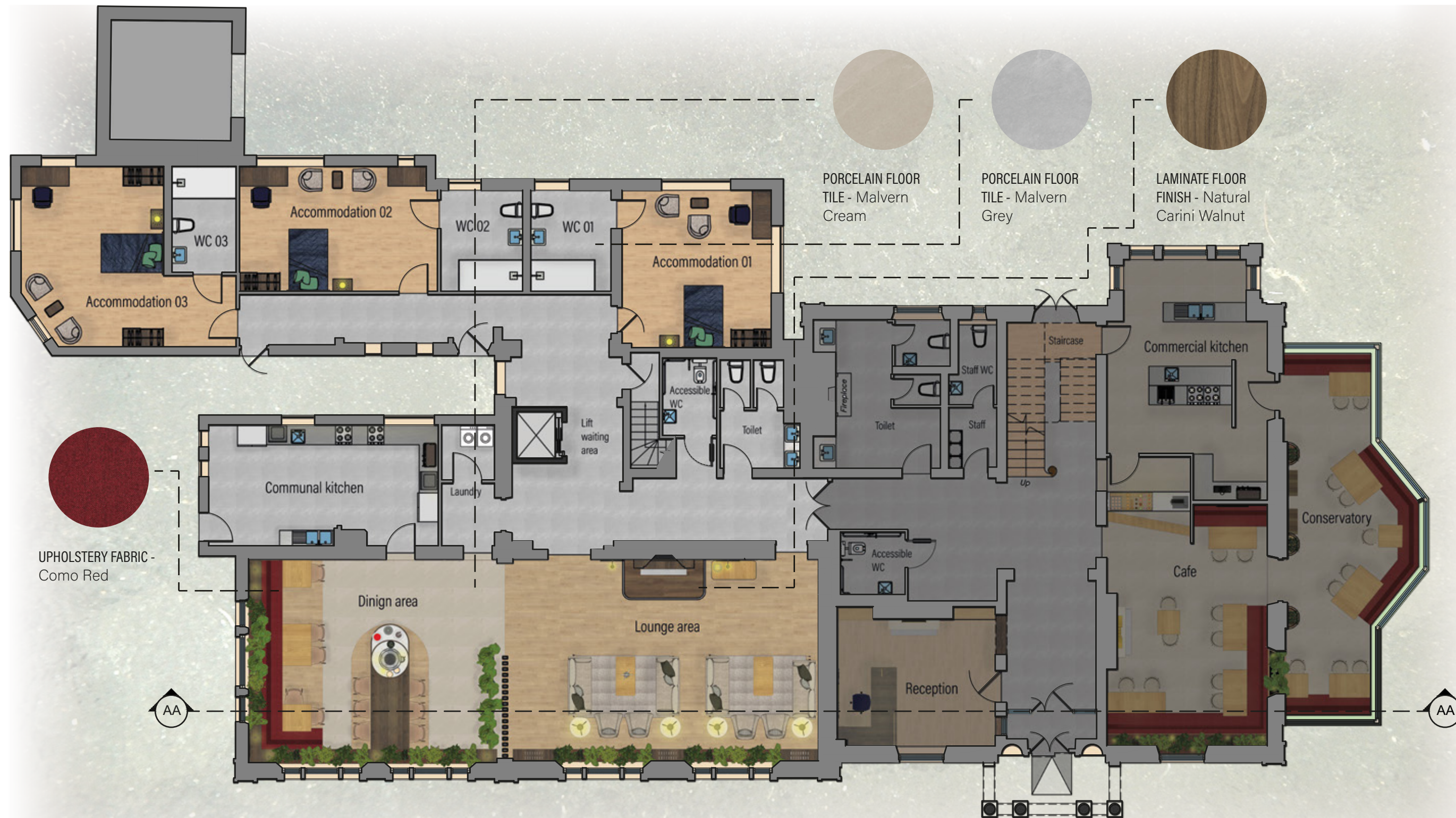
While the space is primarily designed to be elderly friendly, application of the biophilic design can be seen and engaged throughout the entire space especially in the cafe and the conservatory.



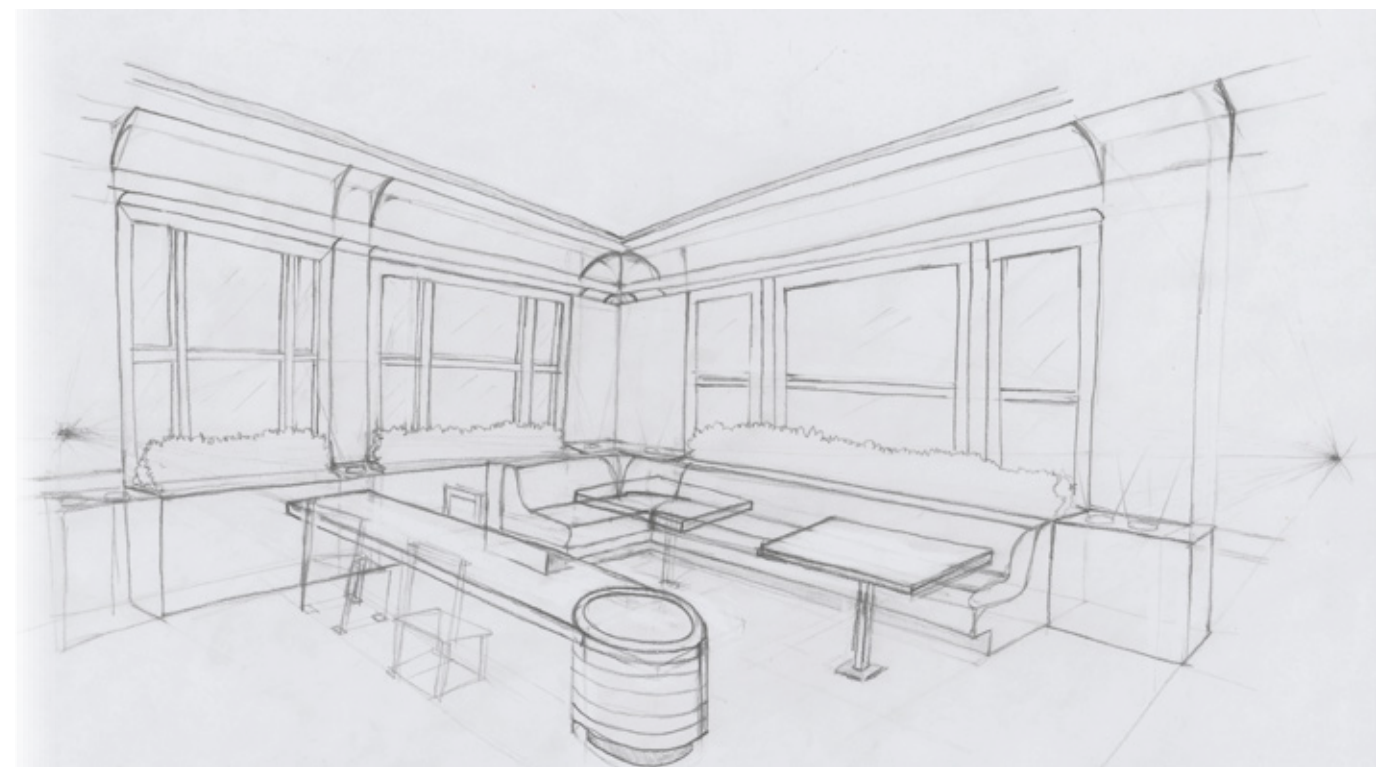
CAFE



CONSERVATORY



GROUND FLOORPLAN
Scale 1:125



DINING AREA CONCEPT SKETCH

The sketch of this dining room helps visualise the outcome of what the dining area will look like regarding the preservation of the existing elements and nature integration.

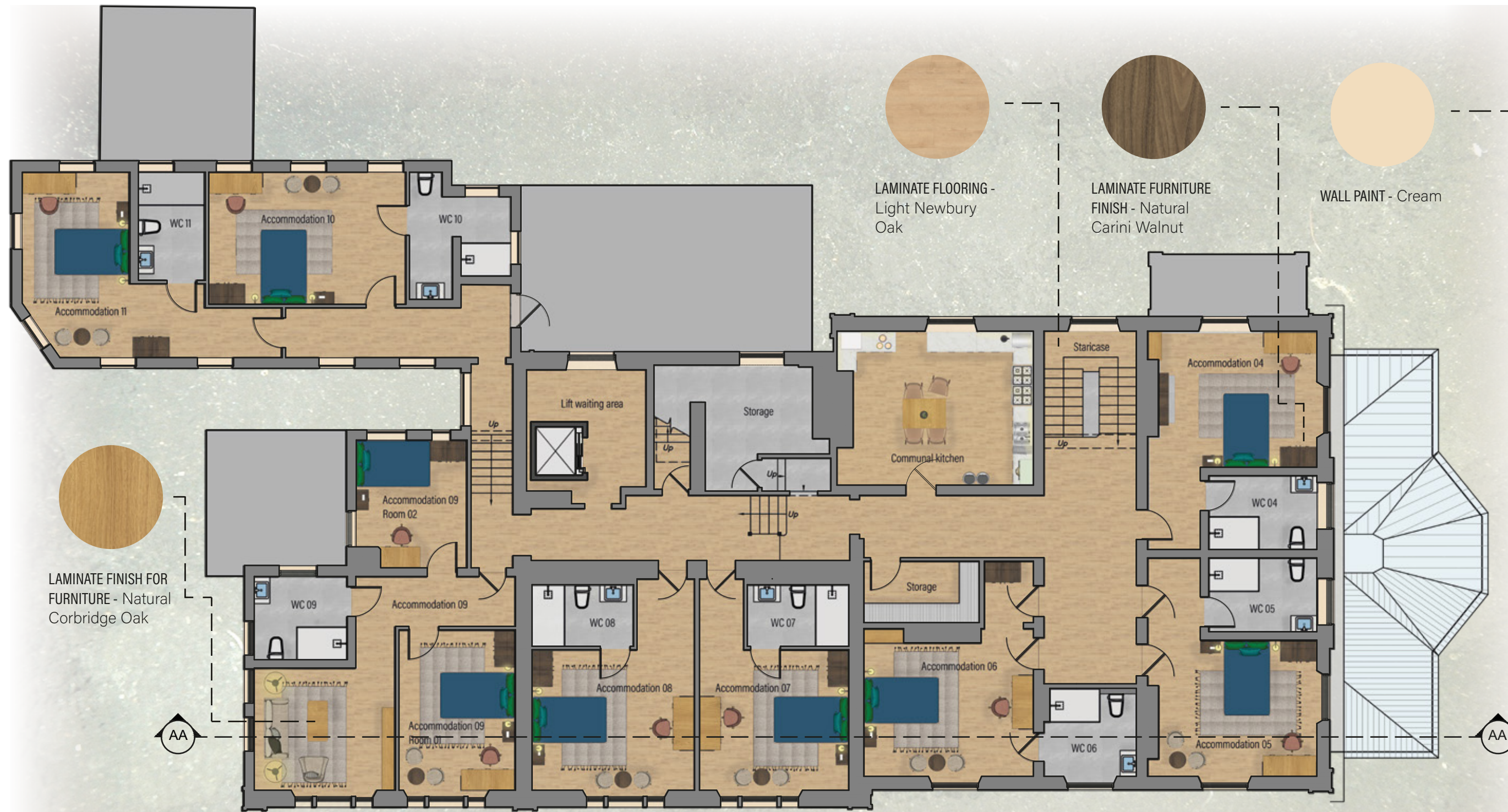
GROUND FLOOR - PRIVATE SPACE
 The private quarter consists of the lounge area, dining area and a communal kitchen where the residents can cook together. There are 3 accommodations that are suitable for wheelchair users at the rear to increase privacy. The lounge and dining areas are designed to be semi-open to allow more flexibility in activities and increase users engagement.
 Services such as the laundry room, communal WCs and storages can be accessed through here as it is enclosed from the public. The choice in contrasting materials such as grey stone floor and wooden wall panels is aimed to help the elderly navigate through the space easily.



LOUNGE AREA



DINING AREA



FIRST FLOORPLAN
Scale 1:125



BEDROOM VIEW 2

FIRST FLOOR - PRIVATE SPACE
 While the first floor is mostly consisted of residential units, the communal kitchen and dining area are provided in the great room by the stairs to allow residents to interact with each other. The bedrooms, however, are en suite to maximise the convenience and privacy of the residents.

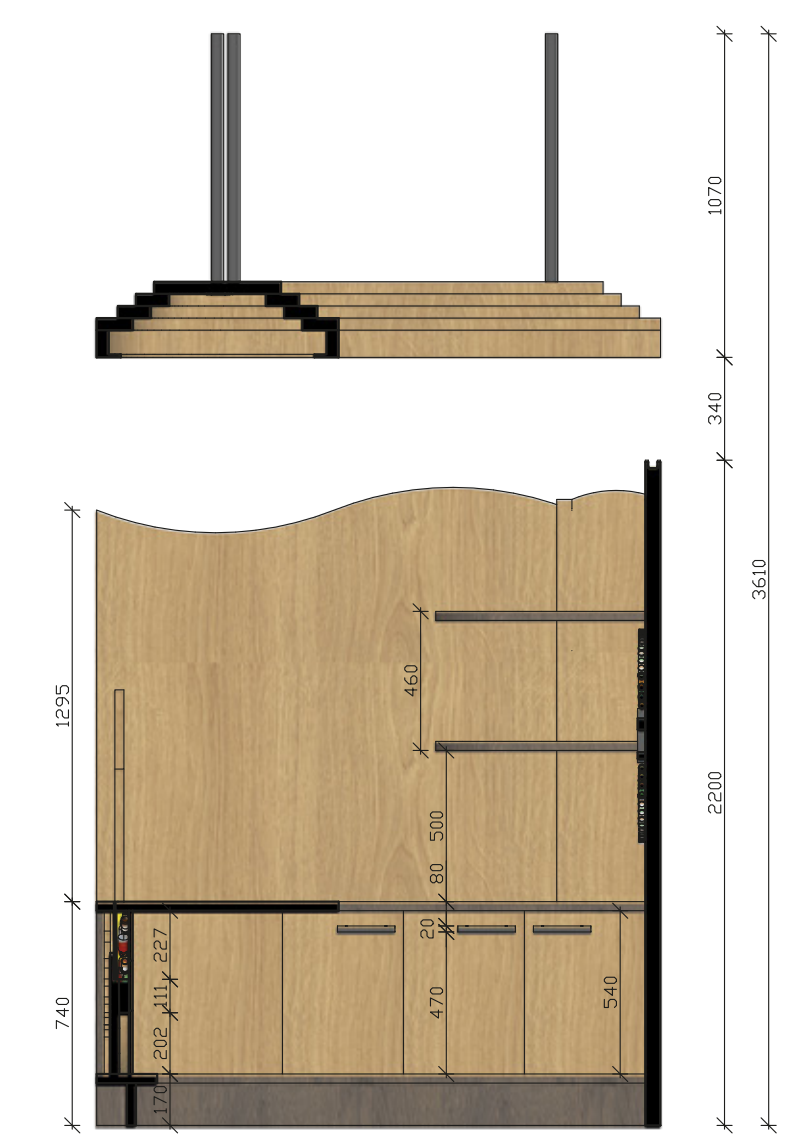
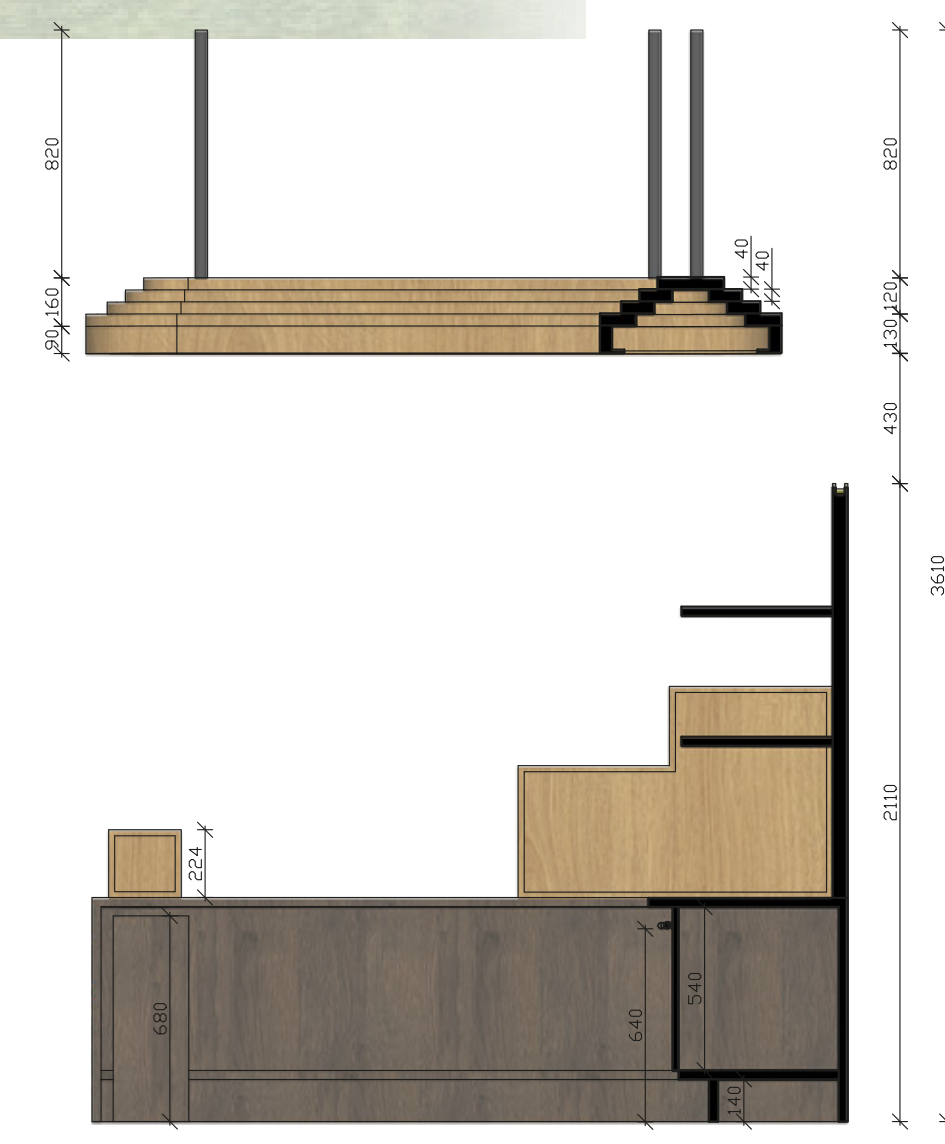
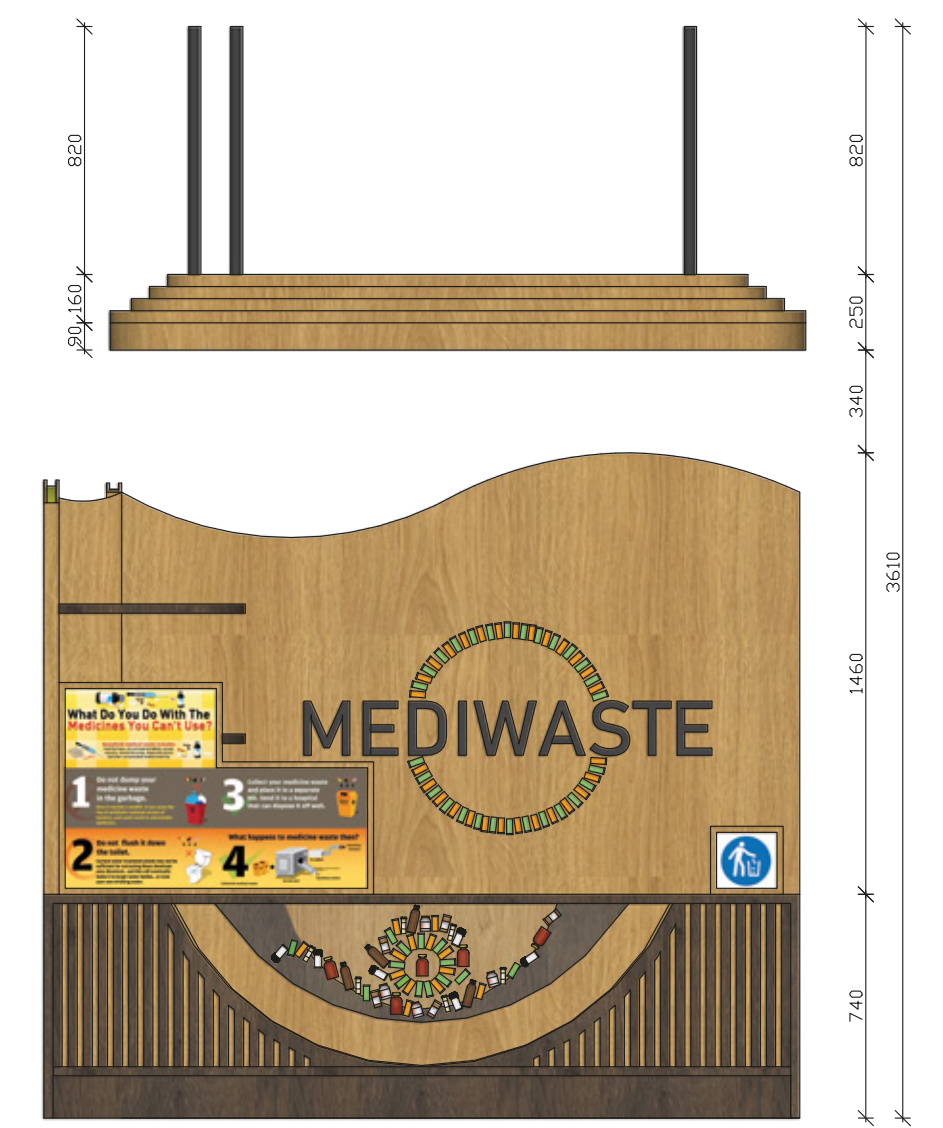
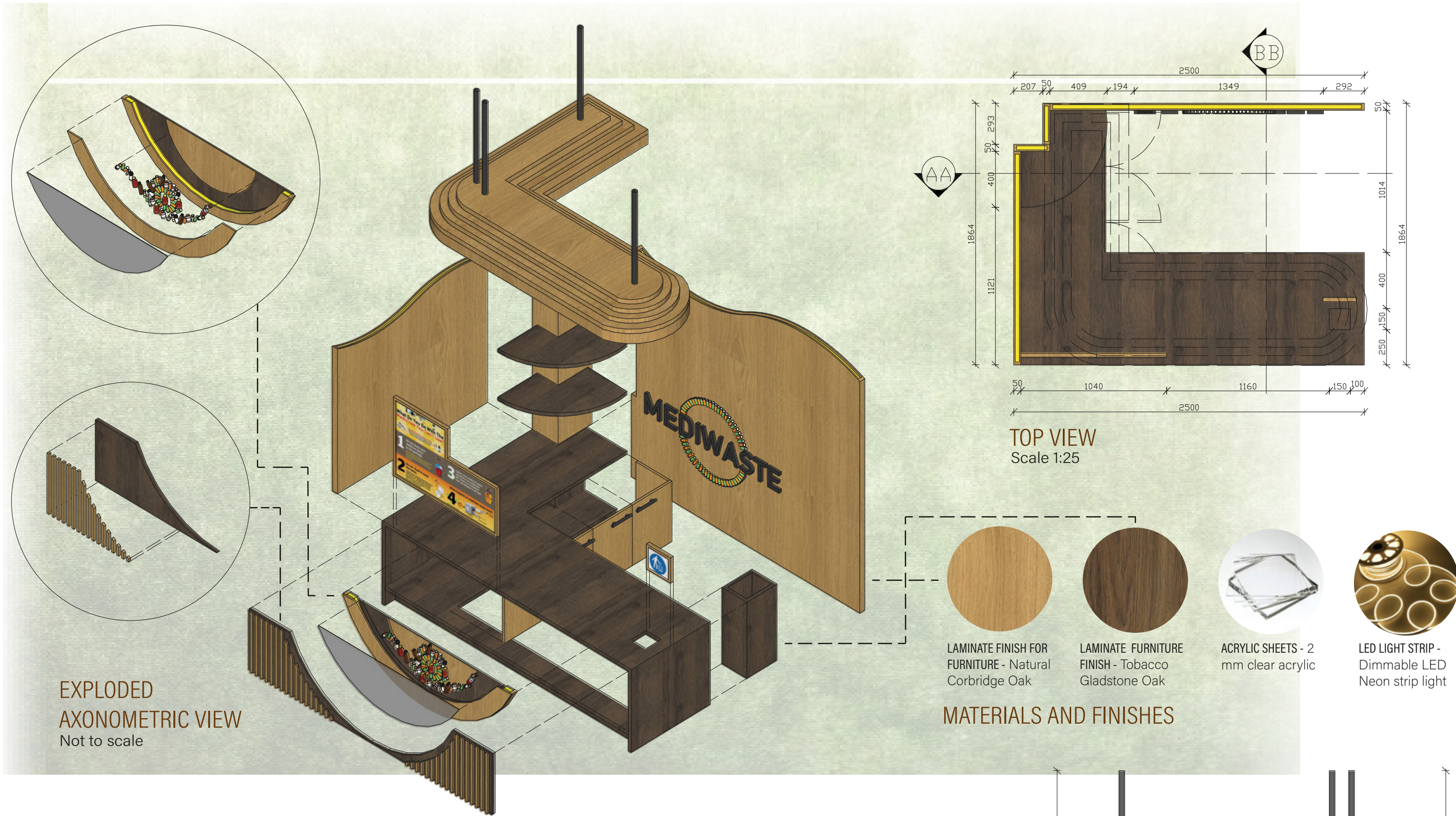
Materials and finishes used on this level are consistent with those used on the ground level with elderly friendly and biophilic designs as the main priorities.



COMMUNAL KITCHEN

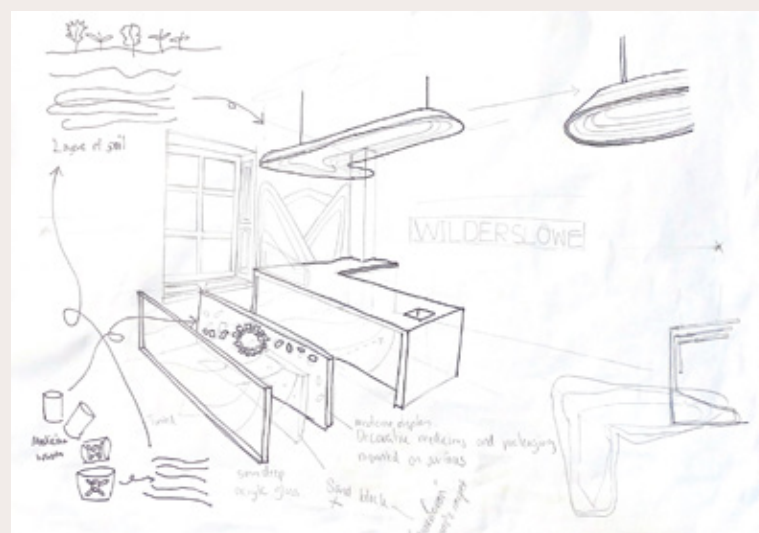


BEDROOM VIEW 1



MEDIWASTE BAR AT ONE WILDERSLOWE ELDERLY HOMES

This regenerative bar is a part of the reception desk at the One Wilderslowe elderly homes, located right next to the entrance to the building. The given name for this project and the bar is MediWaste which is a shorter term for medical waste, a topic that is being tackled on in this project. The bar aims to educate and make awareness of the fact that every day, tones of medical wastes have been disposed to nature especially onto the soil causing damages to the environment. This bar will not only provide useful educational materials to the visitors but also a bin specifically for medical wastes located on the right end of the bar. This will enable not only residents who already live in the building but also for every visitor to be able to dispose their medical wastes here.



CONCEPT SKETCH

PERSPECTIVE VIEW

SECTION AA
Scale 1:25

SECTION BB
Scale 1:25