
Students Learning with Communities: All of these projects were undertaken in collaboration with community partners and supervised by academic staff members

DIT Access and Civic Engagement Office

2015

Universal Design Project St. Michael's House 1.

Andrea Deac
Technological University Dublin

Jamie Lyons
Technological University Dublin

Jennifer McAuley
Technological University Dublin

Jennifer Olakitan
Technological University Dublin

Follow this and additional works at: <https://arrow.tudublin.ie/comlinkoth>



Part of the [Interior Architecture Commons](#)

Recommended Citation

Deac, Andrea; Lyons, Jamie; McAuley, Jennifer; and Olakitan, Jennifer, "Universal Design Project St. Michael's House 1." (2015). *Students Learning with Communities: All of these projects were undertaken in collaboration with community partners and supervised by academic staff members.* 39.
<https://arrow.tudublin.ie/comlinkoth/39>

This Other is brought to you for free and open access by the DIT Access and Civic Engagement Office at ARROW@TU Dublin. It has been accepted for inclusion in Students Learning with Communities: All of these projects were undertaken in collaboration with community partners and supervised by academic staff members by an authorized administrator of ARROW@TU Dublin. For more information, please contact yvonne.desmond@tudublin.ie, arrow.admin@tudublin.ie, brian.widdis@tudublin.ie.



This work is licensed under a [Creative Commons Attribution-NonCommercial-Share Alike 3.0 License](#)



St. Michael's House

Services for people with intellectual disabilities

Universal Design Project
St Michael's House

Andrea Deac, Jamie Lyons,
Jennifer McAuley, Jennifer Olakitan

1. UNIVERSAL DESIGN

2. THE PERCEPTION OF COLOUR

3. CLIENT BACKGROUND

4. PROJECT OVERVIEW

5. DESIGN PROPOSAL

6. SURVEY SKETCHES (CANTEEN/
DINING AREA)7. PROPOSED FLOOR PLANS AND
EVEVATIONS8. 3D RENDERED VIEWS OF
CANTEEN9. PHOTOGRAPHIC SURVEY OF
PATIO

12. 3D RENDERED VIEWS OF PATIO

13. MOOD BOARD

14. SAMPLE BOARD OF CANTEEN/
DINING AREA

15. SAMPLE BOARD OF PATIO

Universal design is to cater for a wide range of people. These designs could be for products and spaces so it is not limited to specific users. Universal Design has stemmed out from Accessible Design that applies the needs for people with disabilities. Everyone can benefit from Universal Design. It is a user friendly and functional process for everyone. It caters for people with conceptual, cognitive and physical (dis)abilities. Universal Design can be applied to any product/ building, public or private, public transportation and urban planning.

7 Principles of Universal Design:

1. Equitable Use: Design is functional for all users regardless of their mobility
2. Flexibility in Use: Practical for a wide range of users
3. Simple and Intuitive Use: Easy design that a user that may have language difficulties, poor concentration levels or little knowledge can understand
4. Perceptible Information: Easy communication between the design and the user
5. Tolerance for Error: Minimum hazards for unintended accidents
6. Low Physical Effort: Easy design that doesn't use up too much energy
7. Size and Space for Approach and Use: Appropriate height and space for all users regardless of their mobility, height etc.



Dementia and Vision problems

1. Difficulty re-adjusting one's spatial orientation when moving around.
2. High-stepping over carpet rods or shadows, thinking they signify a change of level (depth) difficulty problem solving visual illusion effects
3. Resisting walking on shiny flooring because it looks wet or slippery
4. Walking on the darkest patterns (or shadows) of flooring to try to avoid falling
5. Difficulty in positioning oneself accurately to sit down in a chair, on the bed, on the toilet
6. Inability to find objects or places because of a lack of colour contrast

Categories of visual mistakes

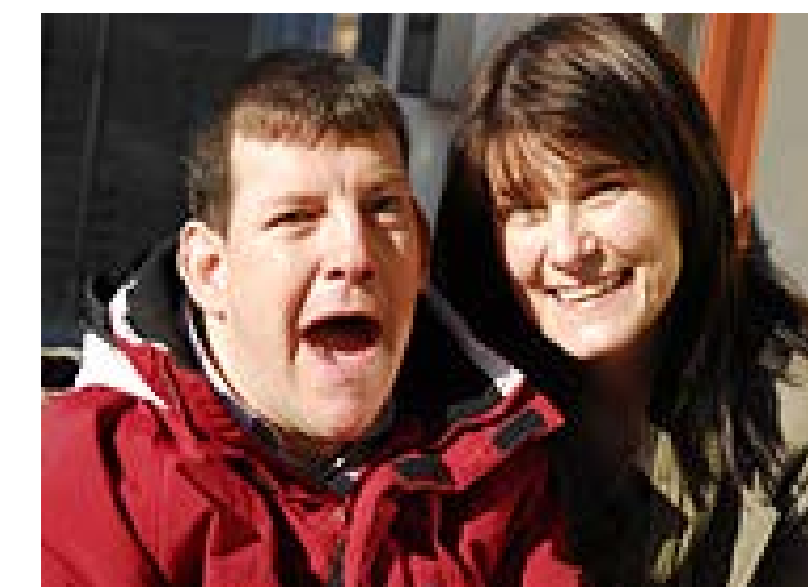
Illusions- a 'distortion of reality' resulting from some physical property or characteristic of the image. This may result from a particular characteristic of the object, such as its surface being shiny or it being the same colour as the wall behind. An example might be seeing a face in a patterned curtain.

Misperceptions – what the person sees is a 'best guess' at the inaccurate or distorted information the brain has received from the eyes. This is usually the result of damage to the visual system due to diseases such as glaucoma.



According to www.smh.ie, St Michael's House was founded by a woman whose son had down syndrome. She wished to change how people with intellectual disabilities were seen within society. So she posted an ad in the local newspaper in 1955 asking for anyone interested to contact her so as to set up an 'Association for parents of mentally backward children'.

State-Funded Michael's is an organisation which developed new community services for many like Patricia's son. They cater to both children and adults providing 1,663 people with intellectual disabilities and their families around the GDA and Navan Co. Meath with their service. St Michael's is one of Ireland's largest providers of these community-based services and have led their development within the country for 57 years.



PROJECT OVERVIEW

This project is to help the people of St Michael's house renovate their canteen/dining area and their patio to make it all look more welcoming and habitable. We have faced many problems and our job was to fix them all.

The aim of the project is to create a perceptually beneficial area with block colour, which will easily distinguish objects for users. Modular and multifunctional furniture will be incorporated for a dynamic use of the room. This should result in more diverse social situations. This project will entail brinign colour, calmness and positivity to the environment in order to keep mood levels up and encourage users to be social or engage in activities. The proposal will create a wide s election of low budget items and solutions the organisation can choose from to benefit their environment.

Obstacles:

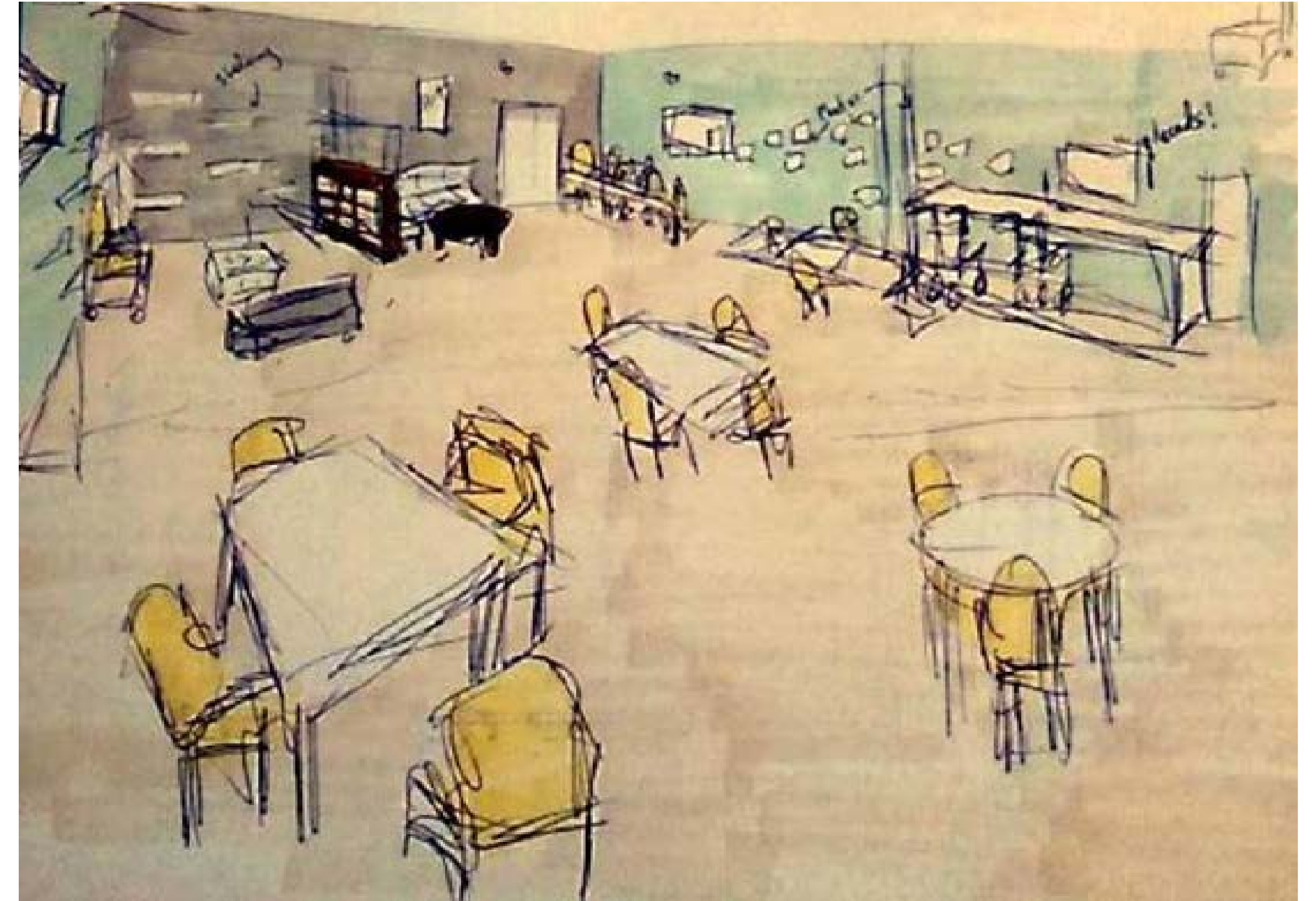
- Redesigning the layout to improve the life of the occupants without overwhelming them.
- Keeping their daily routines in mind and imporving it with-out hindering their habits or favourite leisure activities.
- Considering users who may not like change.
- Keeping within a low budget while seeking quite unique furniture for such a space and our clients needs.



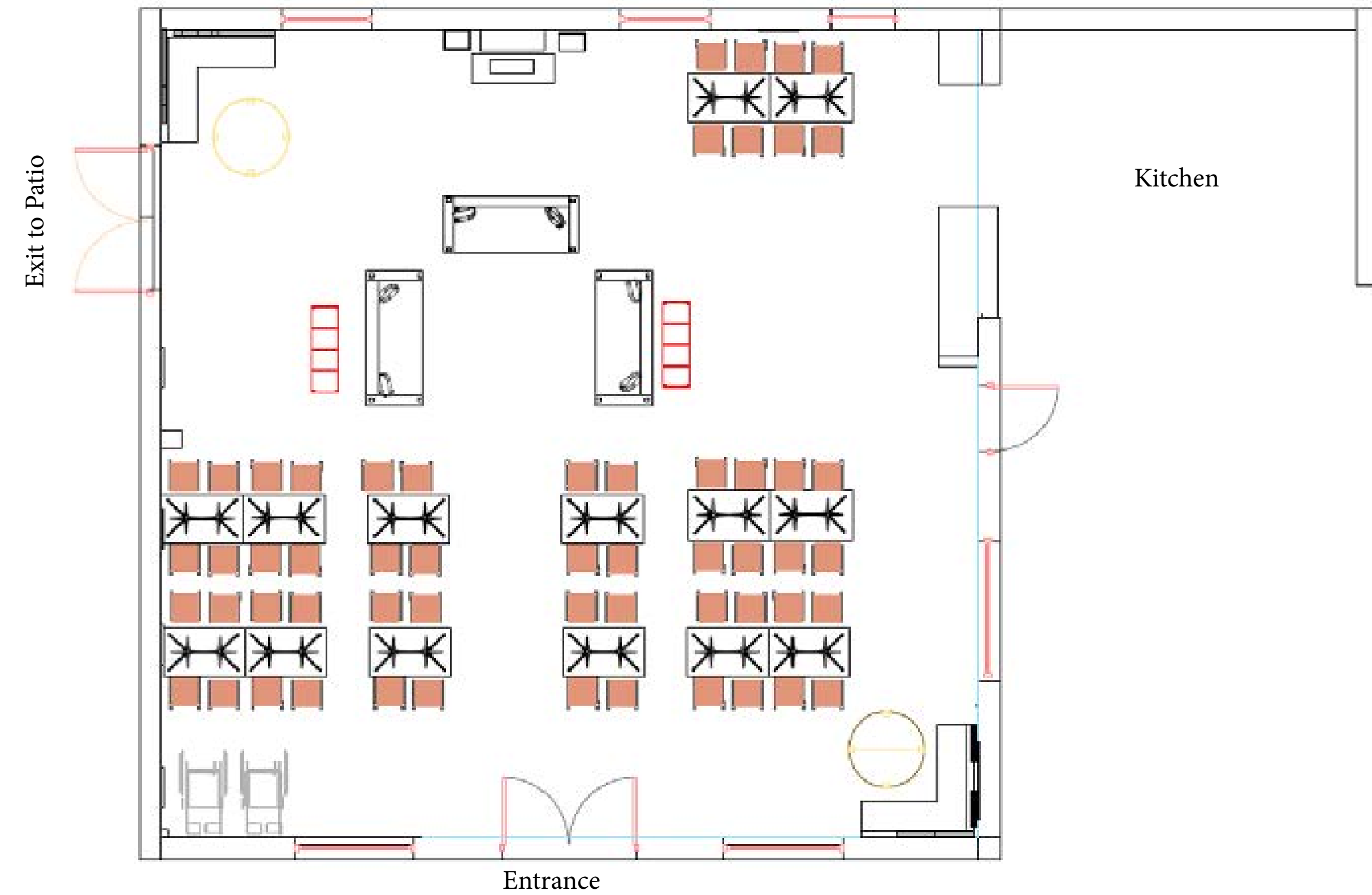
Problems:

- The interior space was dull ad the colour scheme was reminiscent of a hospitals canteen.
- There are no varying spaces for different types of group activities or individual leisure.
- their current furniture is not multifunctional, which re-stricts them.
- Noise levels can be stressful in the space, there isn't much implemented to absorb sound.
- There are no quiet areas for conversing or resting.
- The table cloths are patteren, which does not promote ease of discernment.
- The floor varies in colour, which can be distracting and hinder perspicity.

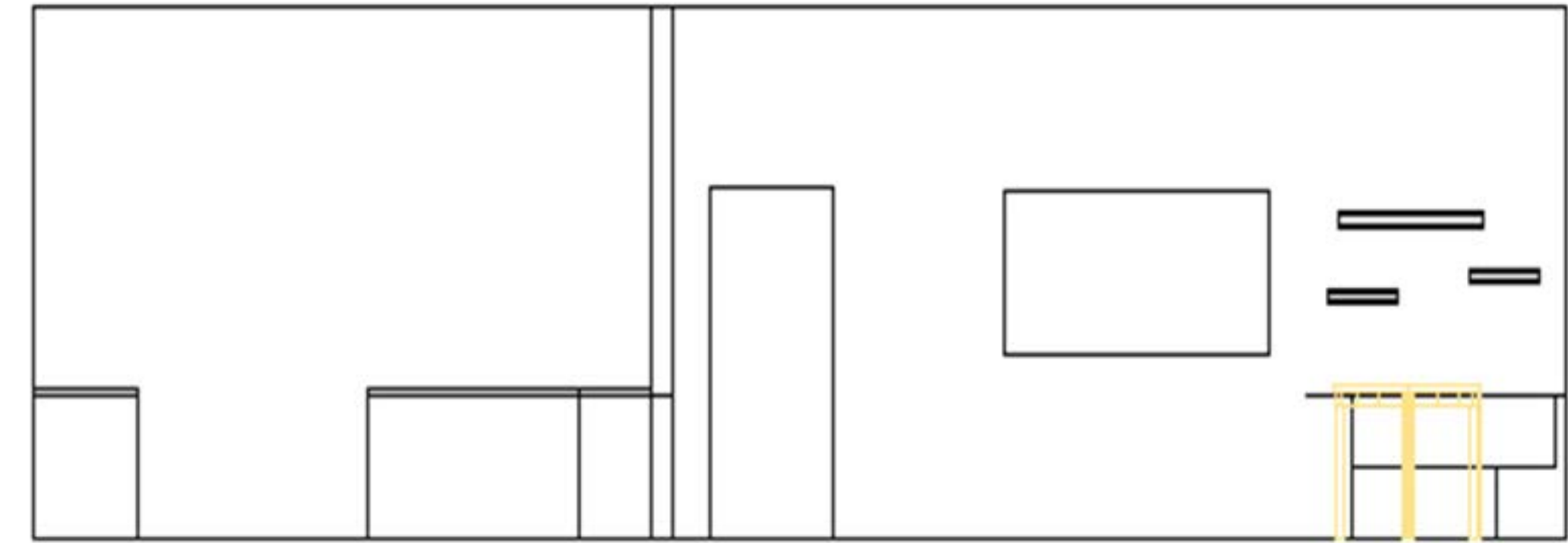
PROPOSED SKETCHES CANTEEN/DINING AREA



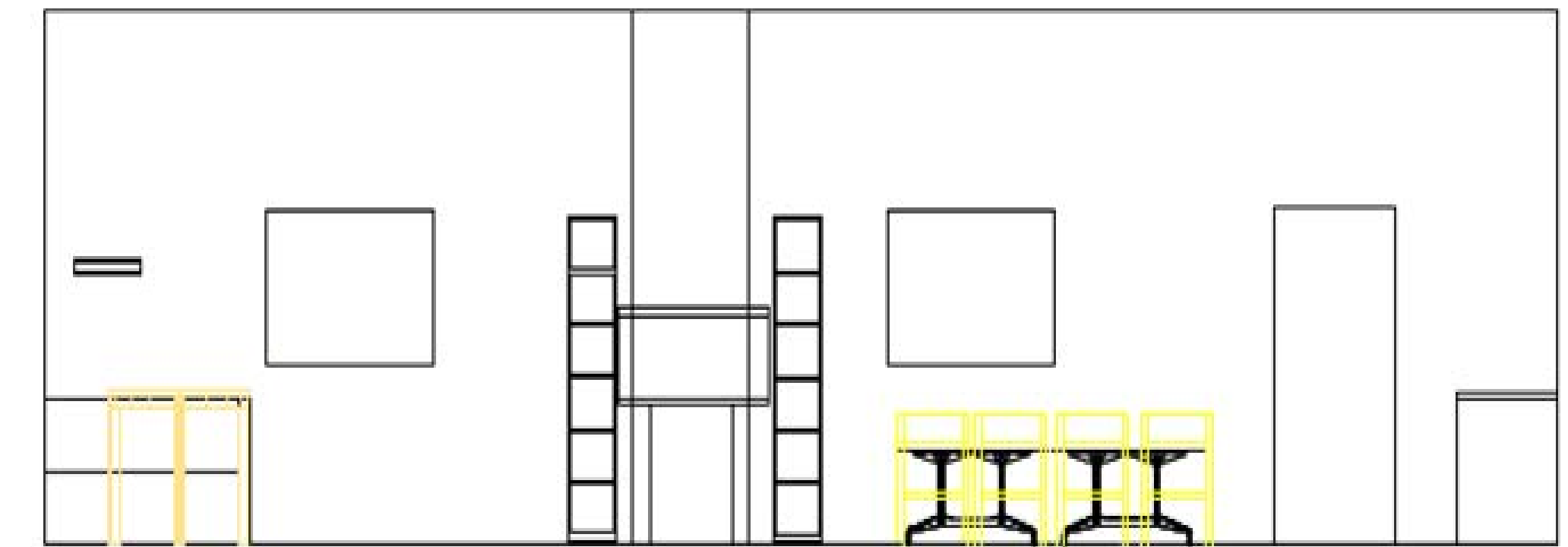
PROPOSED FLOOR PLAN



PROPOSED ELEVATIONS

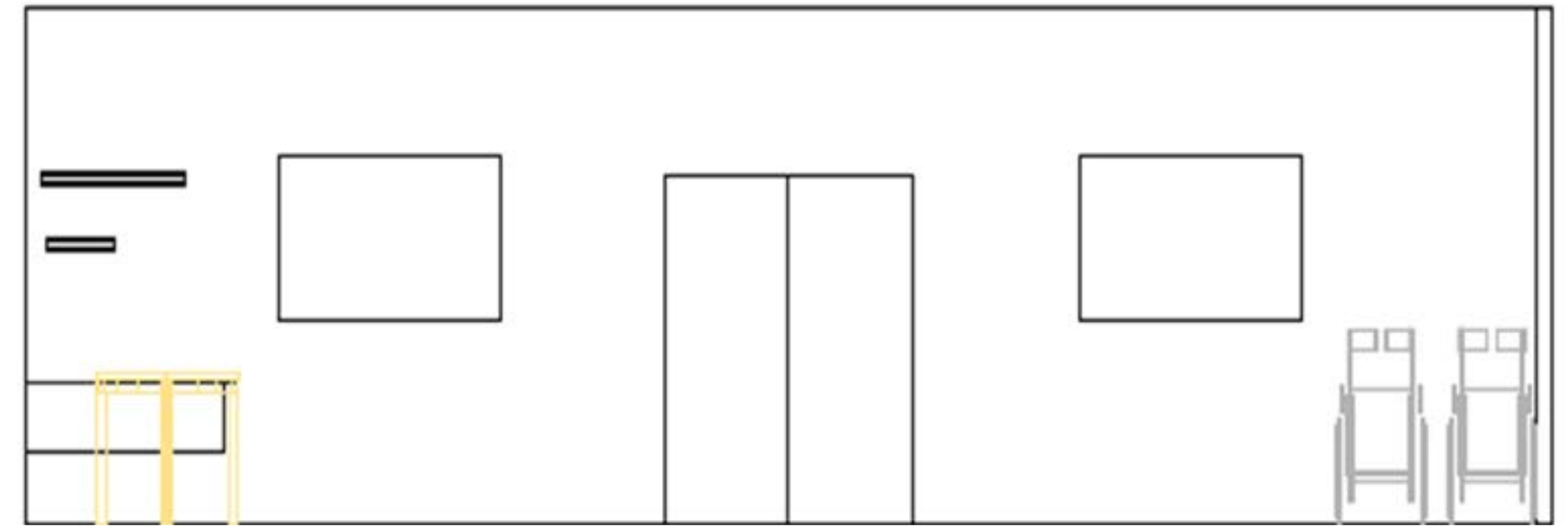


EAST ELEVATION

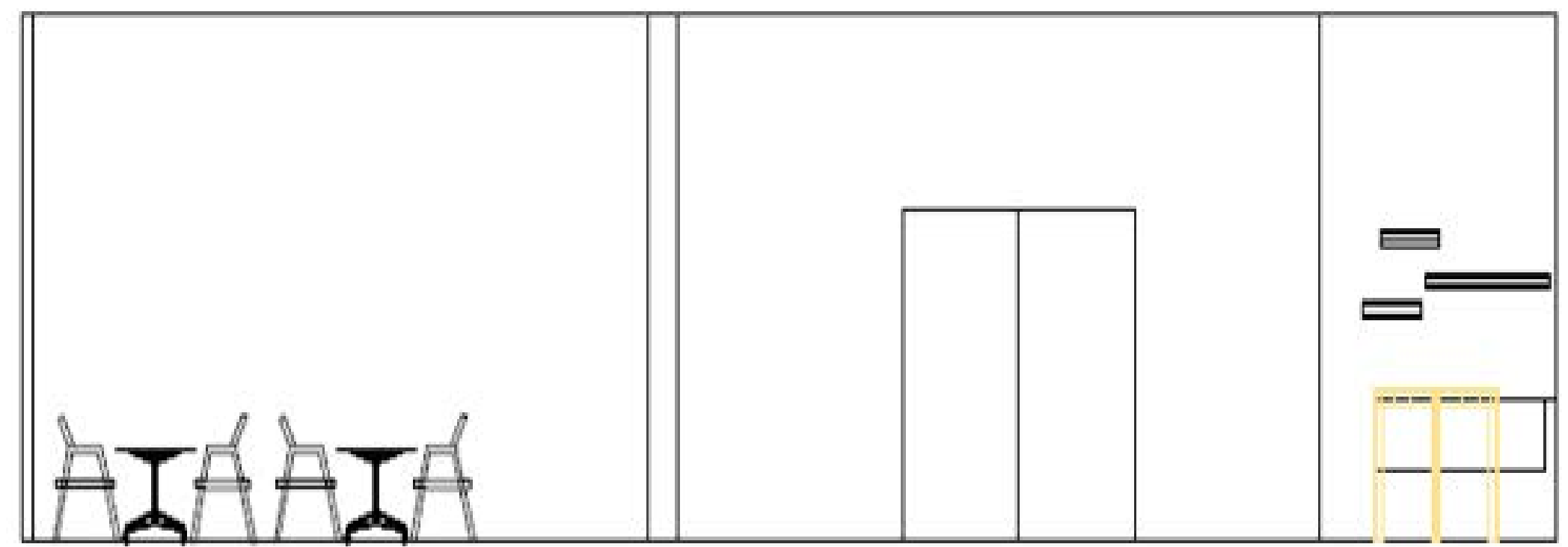


NORTH ELEVATION

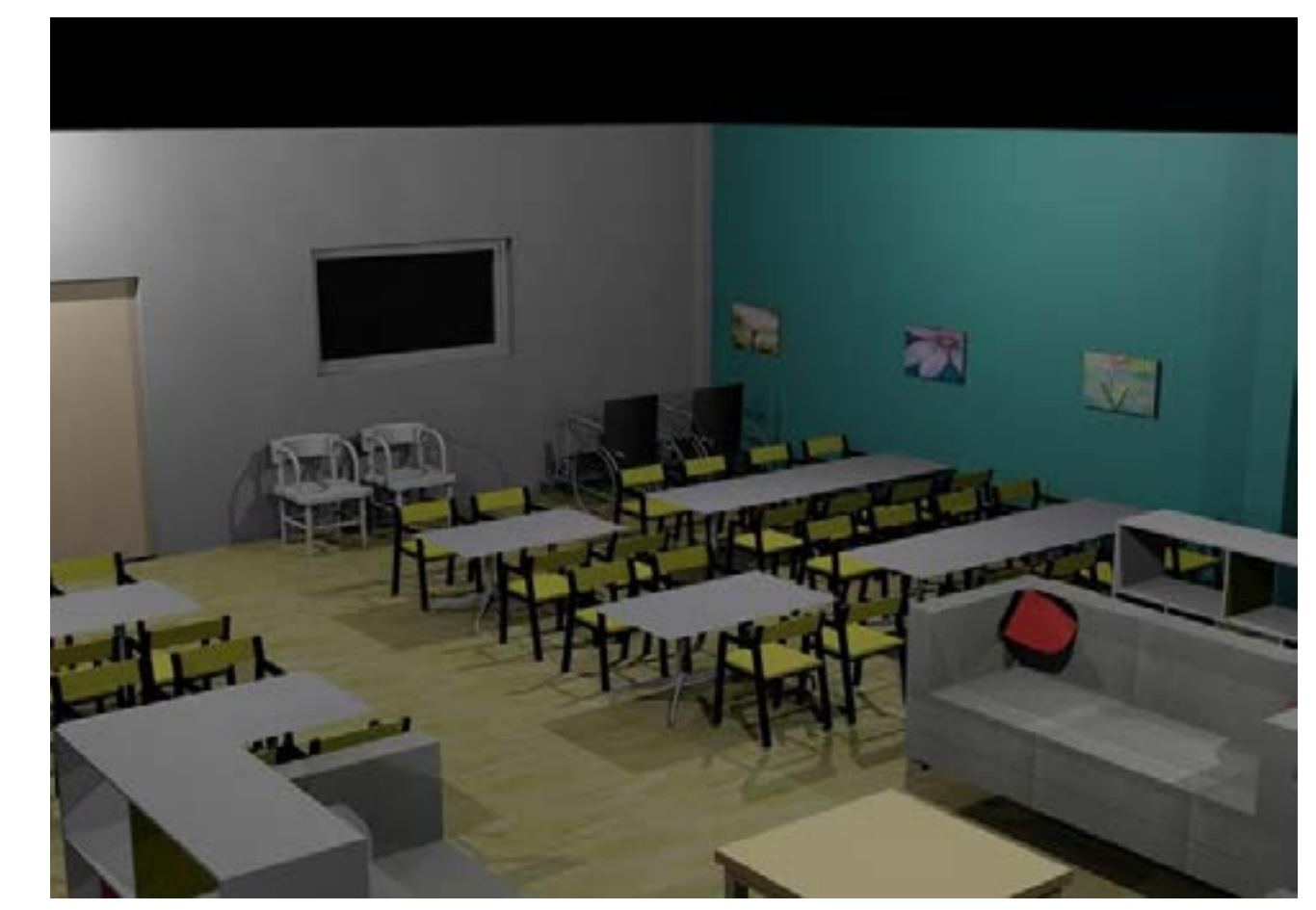
3D RENDERED VIEWS
OF CANTEEN



NORTH ELEVATION



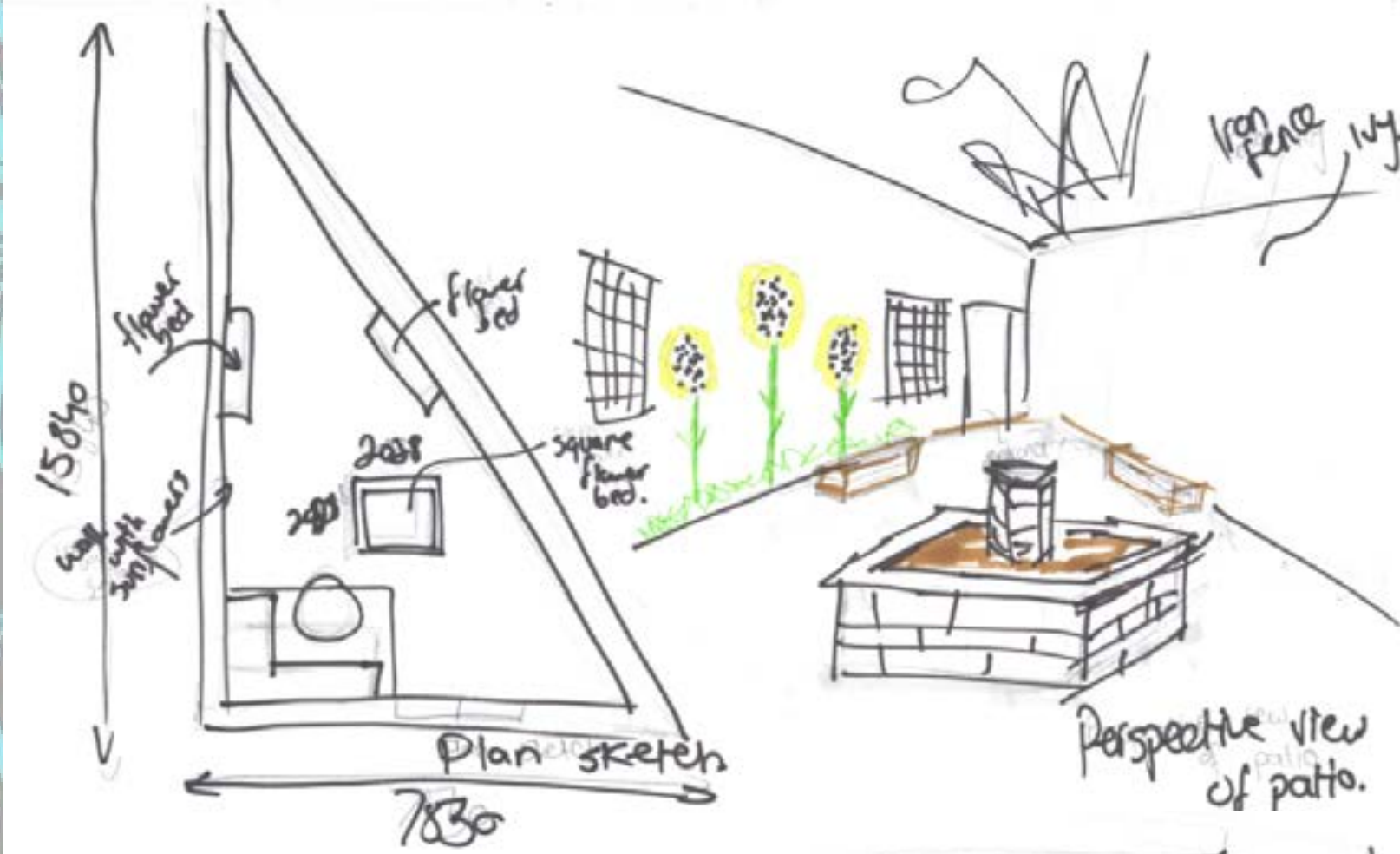
SOUTH ELEVATION



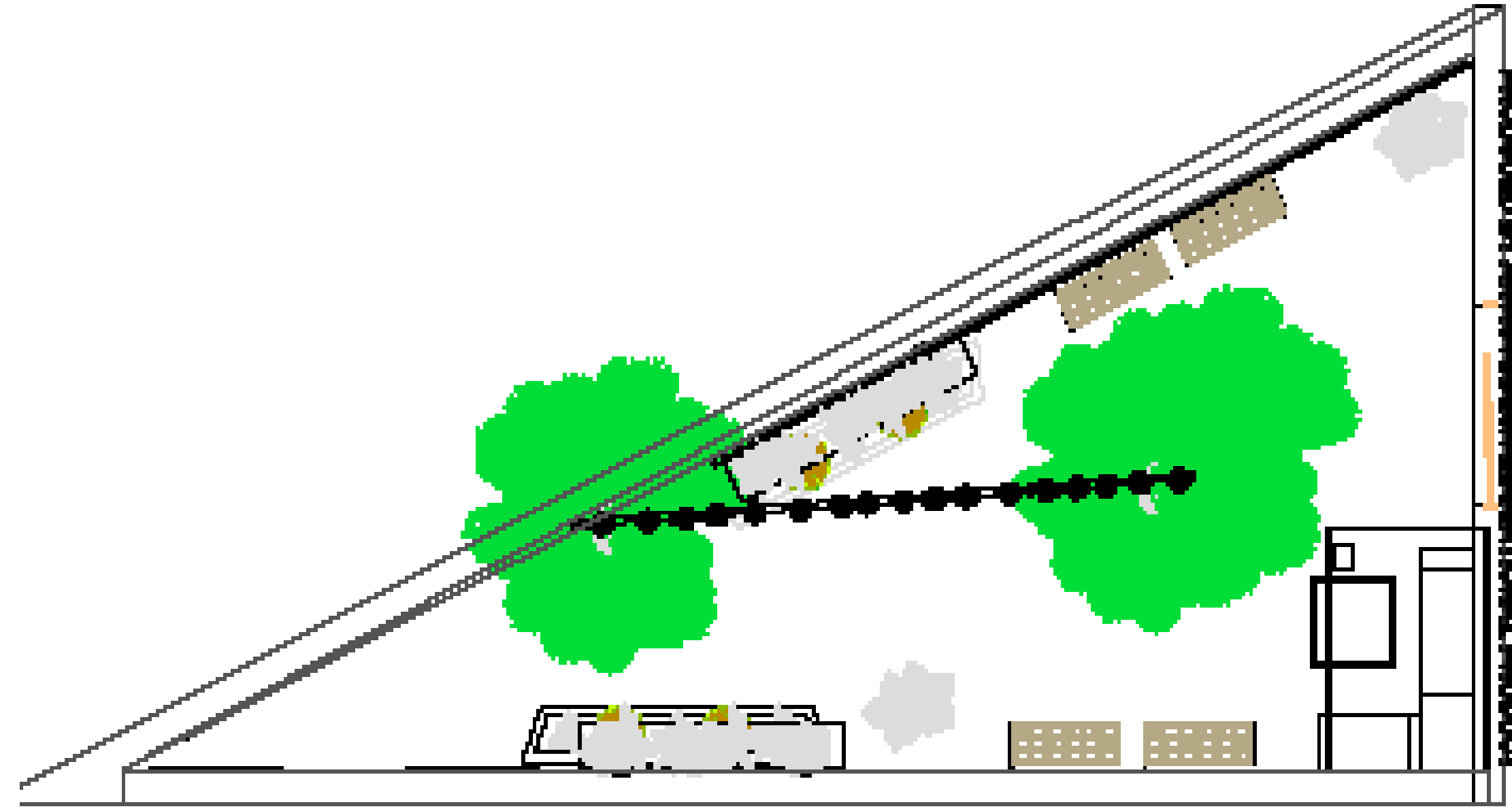
PHOTOGRAPHIC SURVEY
PATIO



SURVEY SKETCHES
PATIO



PROPOSED FLOOR
PLAN OF PATIO



3D RENDERED VIEWS OF PATIO



MOOD BOARD



SAMPLE BOARD
CANTEEN/DINING AREA



SAMPLE BOARD
PATIO



SPECIFICATIONS SHEET

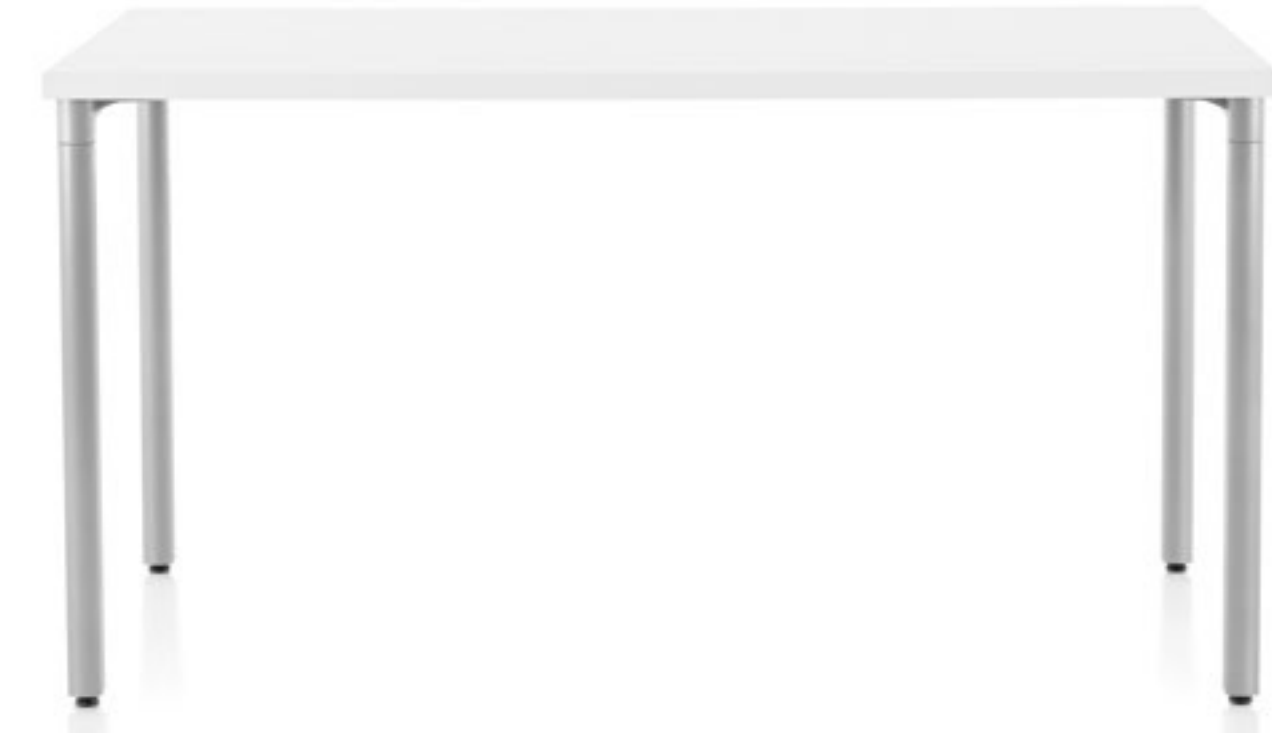


Hygena Merrick Storage Unit - Solid Pine with Oak Effect. €237.99 from Argos.



HERCULES
Shop:stackchairs-4less
Price:\$29.99

EverywhereOccasional Table
Shop: <http://www.sit4life.com>
Price: \$459.00 (Free Shipping)



sofa
Link:ikea.com
Price:€495.00

SPECIFICATIONS SHEET



FÄRGRIK
Mug
Shop: ikea.
com
Price: €00.45



HEMNES
Coffee table, white
stain white
€ 130.00



FÄRGRIK18-piece
service
Shop: ikea.com
Price: €16.99

GALANTRoll-front
cabinet
Shop: sit4life.com
Price: €375.00

