



Burwell Architects | Unit 001 California Building Deals Gateway London SE13 7SB 111111111111111111111

Work Experience Burwell Architects | Blue Collard 23/05/22 - 27/05/22



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Introduction

The Location



Clients Brief

The client has asked for a small coffee shop to be placed in the courtyard outside of his offices. As well as a coffee shop the client has asked if the design could include a bike rack for the customers to use .

Further Information

As the courtyard is situated between three tall buildings, containing six or more floors, the client has sugested that the coffee shop is situated below ground, or is not very tall, as he believes that a taller building will obstruct the view of the residents and workers around the area.

In addition, the client commented on the lack of seating in the area and therefore I could incorporate public seating that can be used for the locals.

Initial Thoughts

We could design a single story building that uses alot of glass to try and keep the view as best we can. In addition we could use the uneven terrain to situate the building below ground, and use the terrain as an enterance for the customers.

As well as seating, due to the demographic of this location including young children, I could try and integrate fun playground like features that will allow children to enjoy the local area, as I will be removing the green space which they initially may have played on

Design Brief

The Site

Location

The site is in Deptford and is a small piece of land in between three large buildings, and provides a green space for residents to enjoy. The site is near these landmarks:

- Deptford Bridge DLR station
- Travelodge
- Co-op and Tesco Express

Further Information

The area is a junction that connects Deptford, Blackheath and Greenwich. Currently there are very few coffee shops for the local residents to enjoy, with the nearest, at the moment, being a five to ten minute walk away.

The area also lacks seating, bins, and fun activities for younger people (aged 12 and below). The location, however, does contain a park with a basketball court near by, meaning that the loss of greenery in this particular location will not be damaging for the residents.













Initial Ideas

| The Building Design

I want the building to use complex shapes and unique designs • The surrounding buildings have basements making the while trying to keep the theme of the area to show development construction process alot easier. and improve the area. To do this I could use these shapes:

- Cylinders
- Triangles / Prisms
- Polygons

| Materials

I would like to keep this project sustainable and therefore use environmentally friendly materials. My intial thoughts are: Depending on the scale of the youth children, I may look to timbers, glass, re-claimed metals.

for lots of natural light, resulting in less energy being used a coffee. overall. I was also thinking of trying to use grass in my building (probably on the roof) so that the construction can almost | Rotation blend in with the surrounding area.

Colours

Currently the colour scheme for the buildin is quite dull. The my building to, resulting in easy access from all the buildins surrounding constructions have used red, yellow, purple and around and the main road, white in their designs.

to keep a raw colour scheme for the building.

Elevation

reasons for this are:

I won't obstruct anyones view.

- There is alot more space below ground.
- I will maintain the greenery.

• I will take up less space

| Targeted Audience

To begin with, I was taretting this building towards the middle aged people, that live in the area. However with the rise in younger people, and students, I may try to incorporate a youth side to the design, or a study section that students can use.

target certain elements at them, potentially a swing set or slide that can be placed near my building, resulting in them I want to try and use a heavy amount of glass, as this will allow convincing their parents to take them, and ultimately buying

Due to the shape of the courtyard, my builing could be orientated in a number of different ways. There is a path that runs through the area which I may beable to connect

In addition, I will want to face my building in the direction I was thinking of using the natural golden colour of the timber where there is most light, as I am trying to use the sunlight rather than artificial lihting to light up the interior.

Ideas to consider

I am thinking of constructing most of this building below The area currently contains to sculptures, one at the front and ground, rather than constructing a two story building. The one near the South building, which means that a decision will need to be made about whether these o or stay.

At the moment there are currently wooden beams within the

Initial Thoughts

ground which are being used for seating, however, they are uncomfortable, meaning that if I tackle the issue of seating, I will need to improve on the current methods that are in place.

There are also a line of trees which follow the path, and they will need to be taken into consideation when deciding on the orientation of the building, as they will obstruct some of the light coming through.

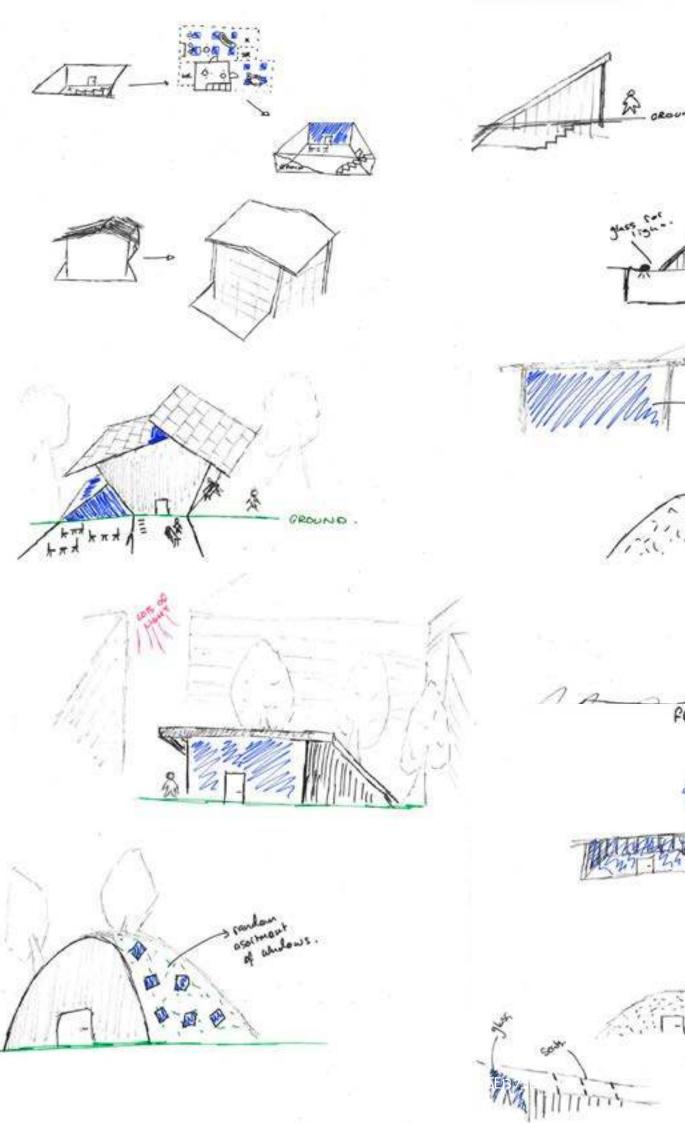


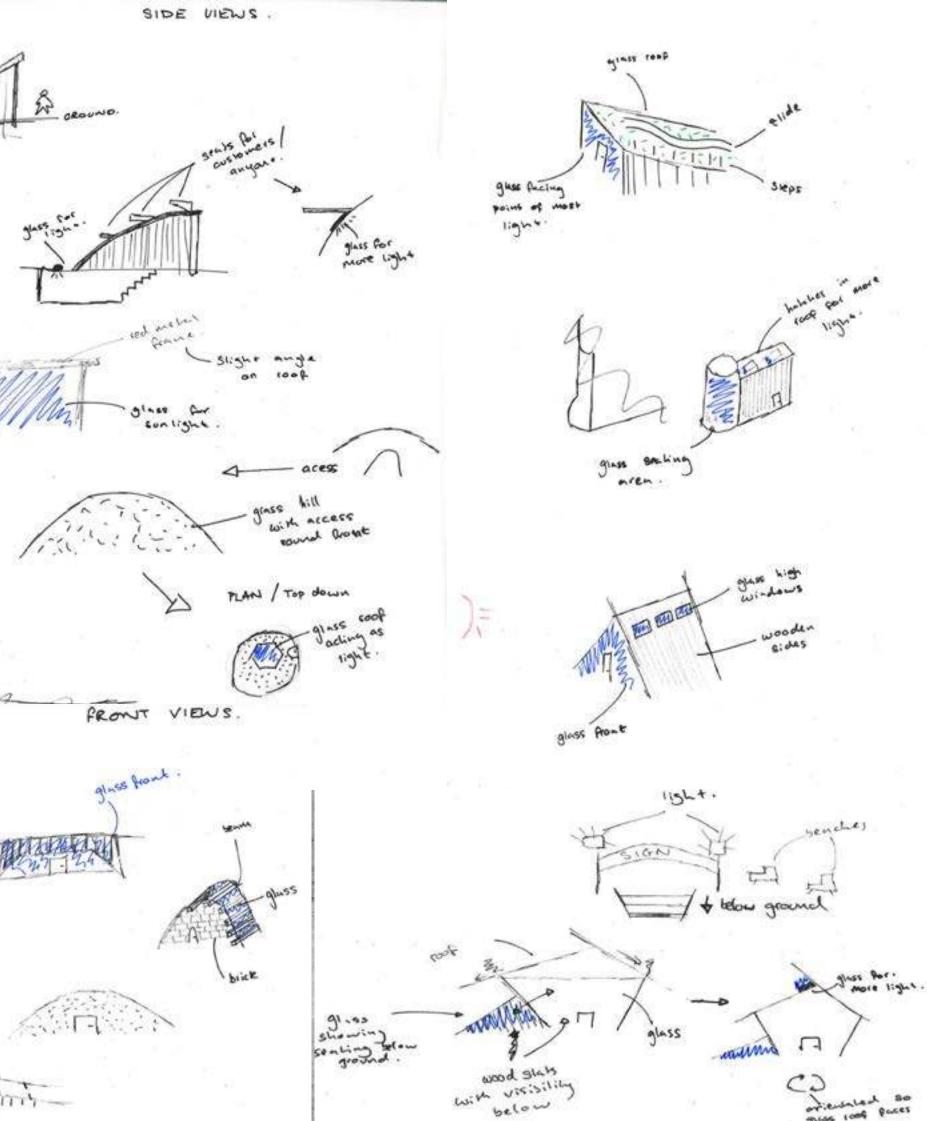






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Reflection on Initial Ideas

| Concepts I like

From my initial ideas, I have realised that I like the idea of constructing this project below ground. In addition, I am a fan of the unusual and unique shapes for my project.

After experementing with the uses of windows to allow as much light in as possible, I believe that this is a great idea to try and work with my final idea.

Concepts I dislike

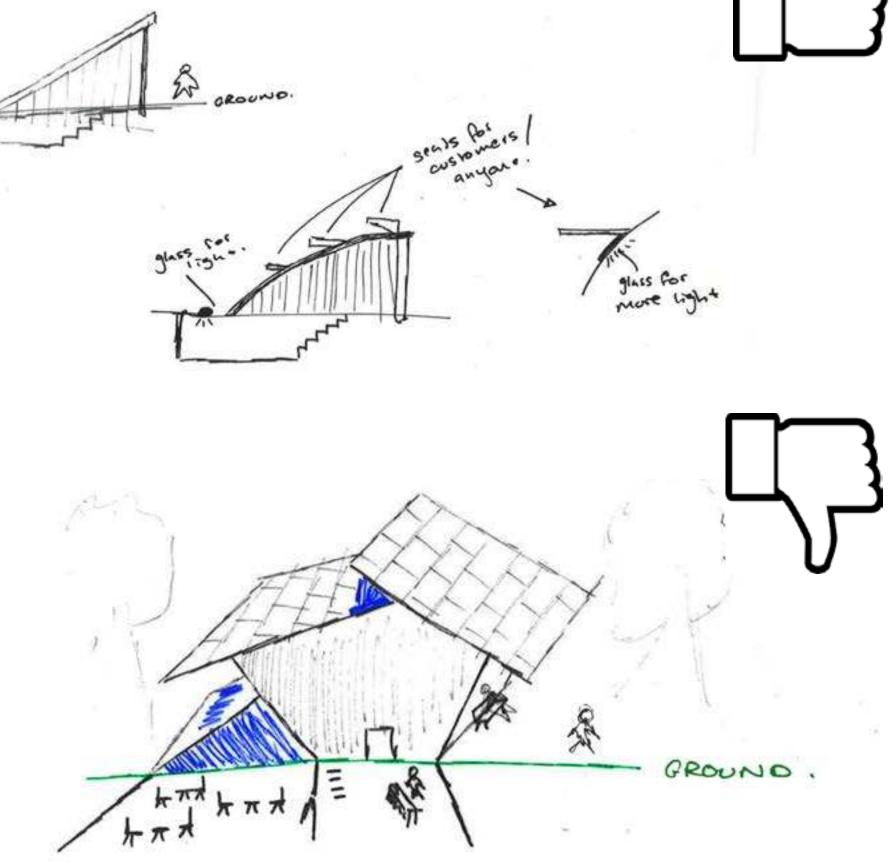
I believe that constructing a large building above ground will not work with the surroundings, and will obstruct the views of the residents. in addition, a larger building will take up a lot of space and ruin the greenery which is currently there.

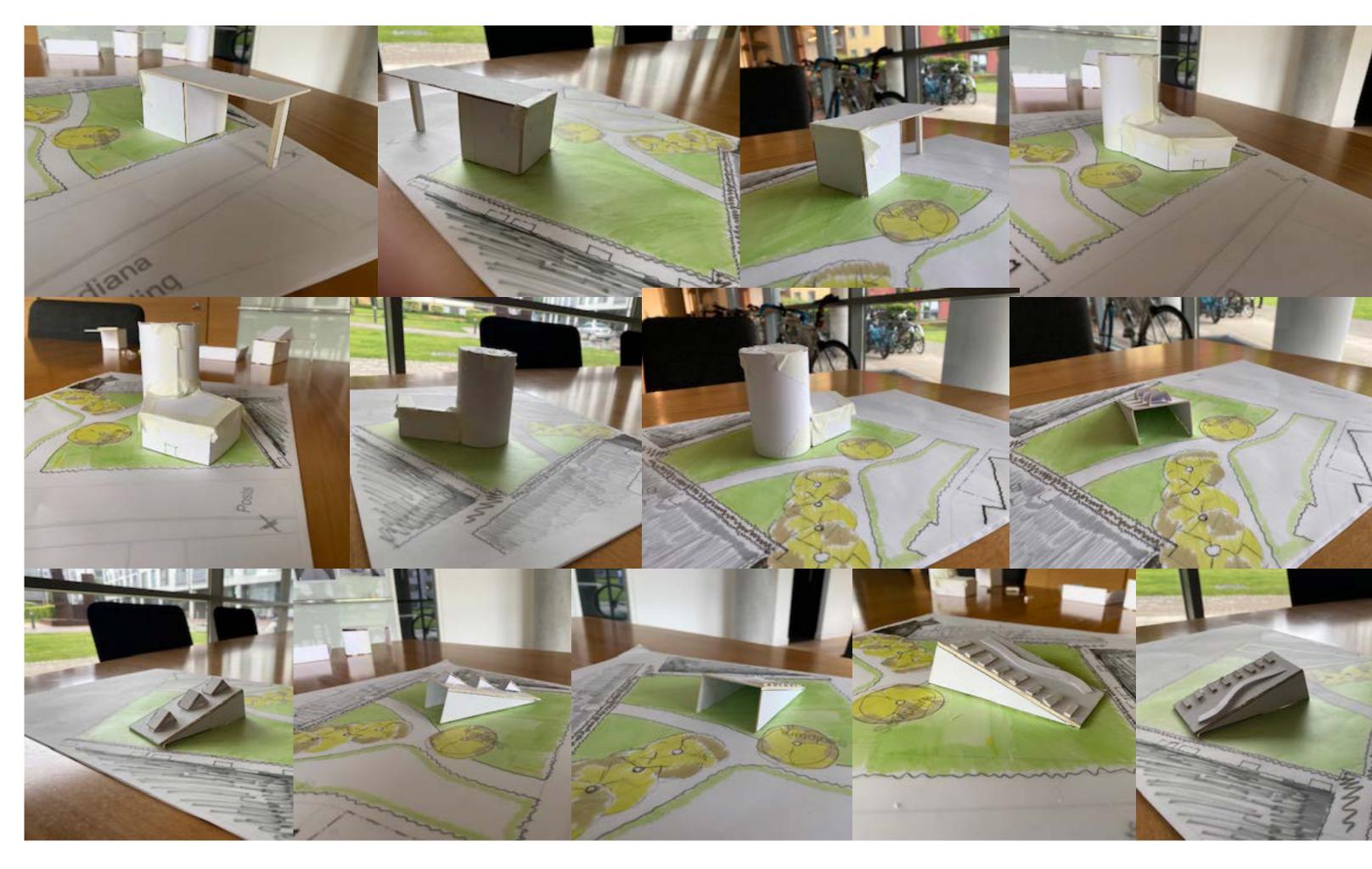
I also dislike the random windows that are placed on the ground. Despite this, I do want to experiment further to see if I can make this idea work with my final idea, as the function of these windows is still valuable.

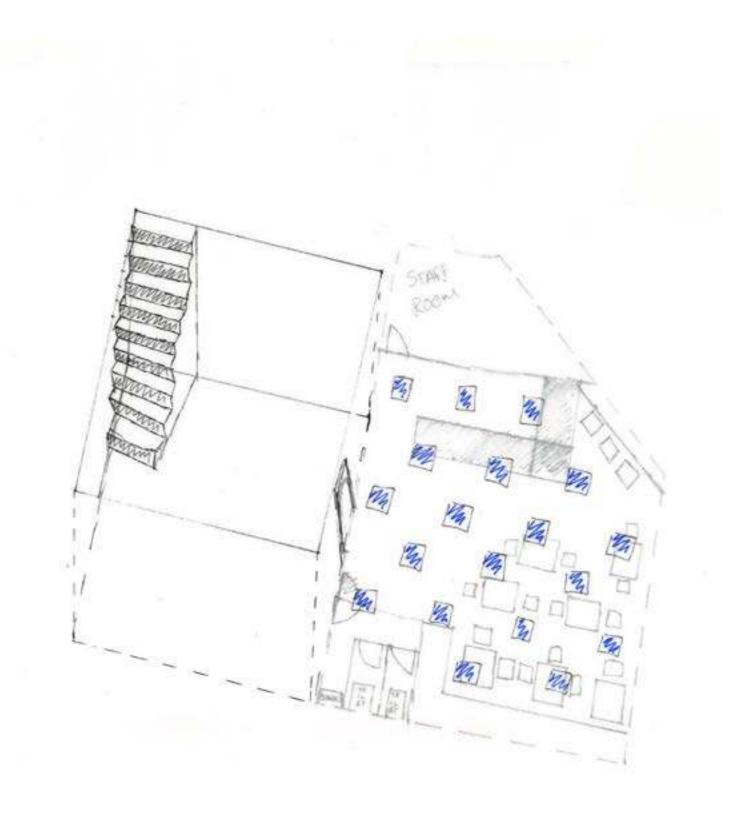
Conclusion of Ideas for the Final Project

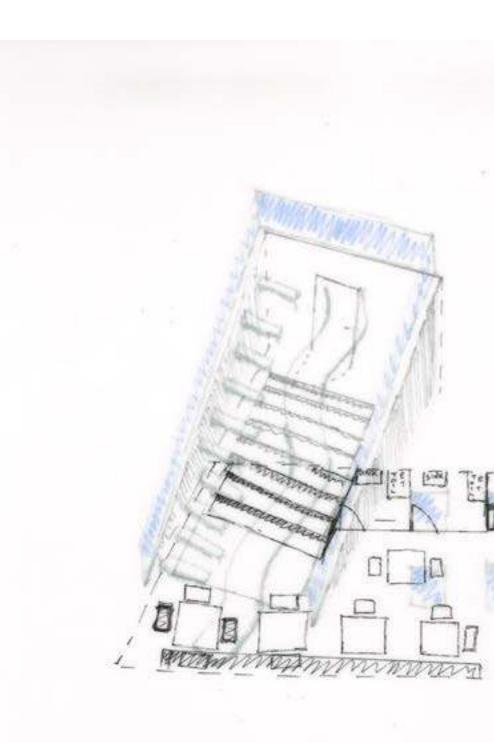
For my final idea, I am going to use the below ground structures, and experiment with different possibilities for how this design will look and function. Furthermore, I will test the lighting, to see if enough natural liht will leak into the cafe below ground.

I will also use complex and unique shapes to create a modern look, as well as hopefully obstruct a smaller amount of space, and view.

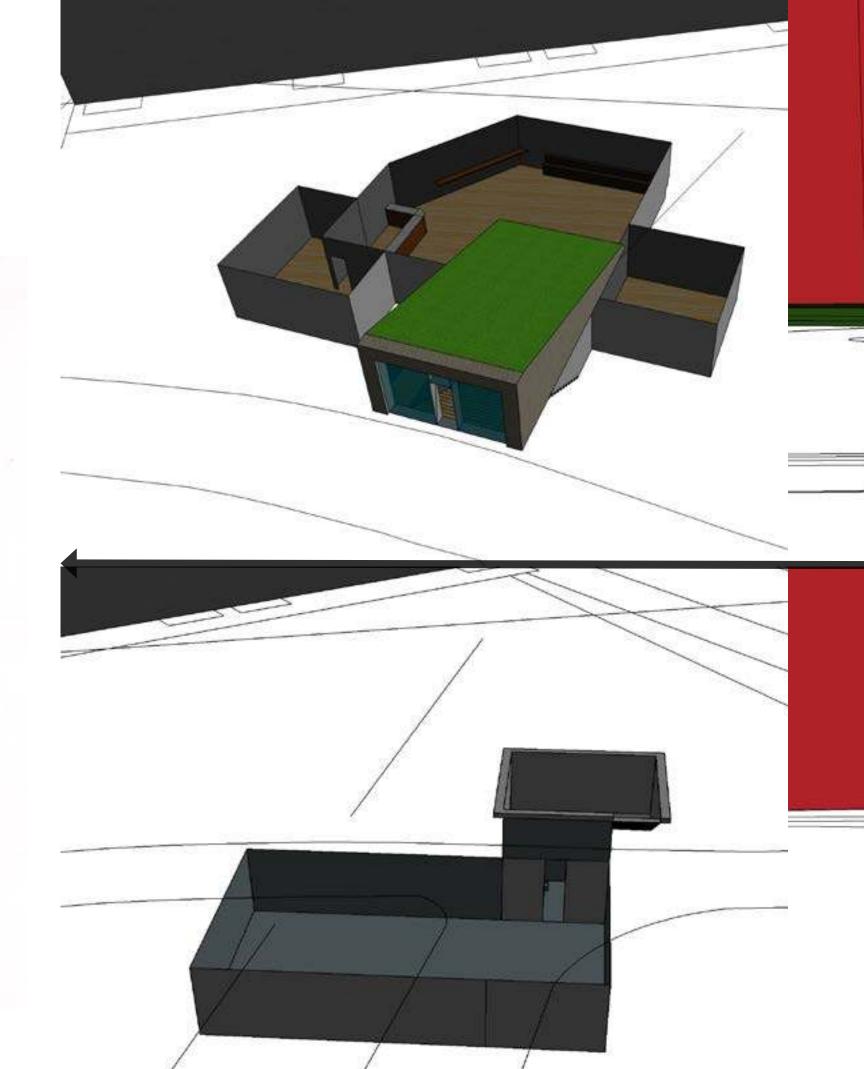










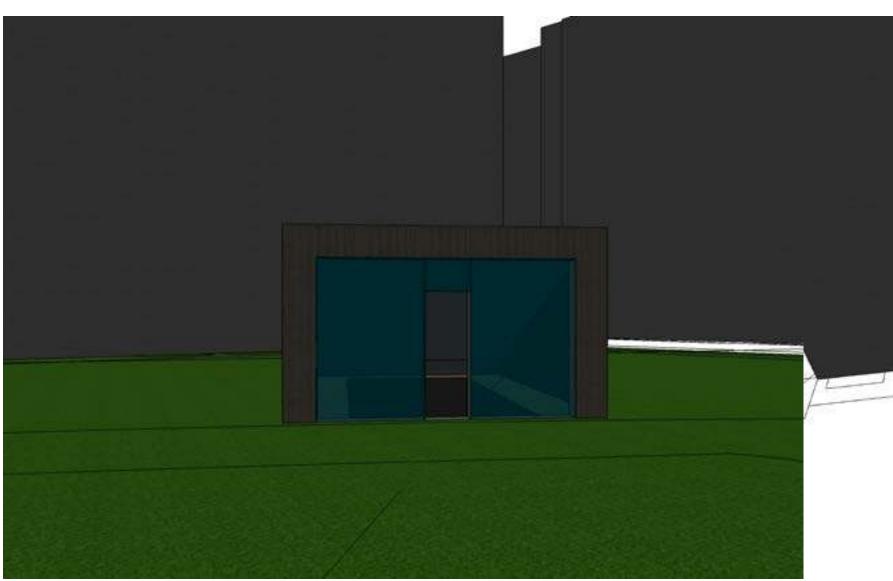


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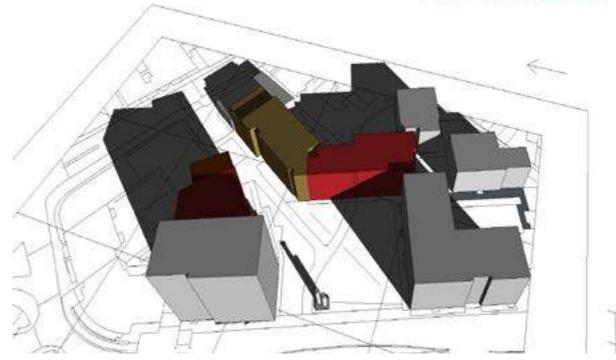


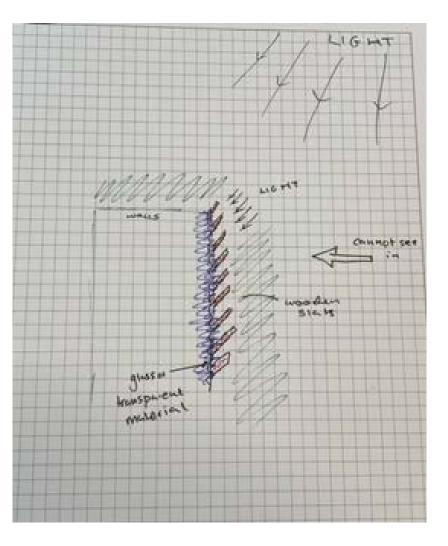




Final Idea

Shows that the light goes through the gap in building





Thoughts for Final Idea

Final Idea Conclusion

I will place my building to the North of the most Southern building, facing towards Burwell Architects. I will connect the front of the builiding to the path allowing easy access for everyone..

The building will be made out of glass and timber slats that will allow plenty of light into the coffee shop. To allow for the most light I will orientate the slats so that they face towards the gap between the Northern building and Eastern building as this is where there is the highest concentration and longest hours of light.

I tested this by using solidworks shadow feature, to see which area was effected by shadows the least.

Why I chose the Design

I chose my design as it combines features above and below ground. The large window at the front allows plenty of light into the cafe, and if this is not enough, roof slats can be added which direct the light into the main coffee shop which is situated below ground.

I prefer this design, as it shows a clear structure which will help guide people into the shop. The design also allows for either:

- Seating on the slanted roof
- Sldie for children
- Slats to allow more light in

Explanation for Final Idea

| Coffee Shop

When deciding where to put the coffee shop it only made When choosing my materials, I had the idea of a cheap and The lighting will be cylinderical lights, which hang down the counter and seating area, i have included a staff room and light to flood the cafe. restroom to make sure the staff and customers are happy. Furthermore, I have added sofa which should allow for a more I knew all along, that I wanted to include lots of glass into my To maintain a warm temperature, ceiling to floor radiators to add charging ports to the wall, in convenient spaces, to allow above ground structure out of glass. them to charge their phone and laptop, to allow them to study had enough room to place a decent sized staff room.

Looking at the plans it looks like there is enough space for:

- Over 20 customers
- 10 charging spaces
- Up to 30 seats

is space (if desired) to increase the bike storage.

Bike Storage

toilet, however, this would eliminate space and also result in a obstructed. ramp being included alongside the staircase.

Negatives to the Design

Unfortunately, there is no step-free access to the cafe. In addition, the storage for the bikes is extremely basic, and not very secure.

Materials Used

sesnse for it to be in the large room below. In addition to just sustainable material, which I could adjust to allow plenty of from the ceiling. These will have various modes, to allow the

enjoyable seating while eating or drinking. For students, I hope design. Therefore, I've chosen to construct the whole of the will be used, and hidden by false walls to not disrupt the

for as long as needed. I chose to set back the counter towards On the East and West sides, I will protect/reinforce the glass the ceiling, through the slants they will be fitted to the ceiling. the furthest wall to allow space for queuing and it meant that I by placin wooden slants at a specific angle, which will allow plenty of light in, and will also allow for some privacy from When the coffee shop is closed, the front door leadin from the residents looking in.

> chosen to use laminates, which will allow for a solid base, while is smashed. matching the colour of the design.

theme with the raw look, I will leave the walls as bare concrete. be fitted with alarms, so that if it is broken, the police are In addition, there will hopefully be two unisex toilets, and there I believe that the light coloured floor, and grey wall will contrast contacted immediately. with each other nicely, and will keep the cafe nice and bright.

For the ceiling, I will use plaster and paint the ceiling white, which again keeps the room bright, and allows the area to be The roof is made out of synthetic grass, and therefore does As my focus was heavily weighted towards the cafe, I will well lit. To make the ceiling more unique, the slants used on not need to be watered / maintained. Within the roof, slots include metal bike racks which will go on the western wall of the outside of the building will be replecated, and they will will be included and hidden, so that the preffered use can be the building. This should allow for 35 bikes at one time. Initially, hide the airconditioning, and air units used in the design. The installed. the bikes were to be stored downstairs, in a room next to the angle of the slants, will allow air to flow, but the view to be

> balance out the light walls, ceilings and floor, and this will be A barrier at the front of the roof may be necessary to stop given a glossy finish so the surfaces shine.

Operation

manager to adjust the light accordingly.

minamilist theme. To cool down the cafe, during summer time, an airconditioning unit will be fitted, and will be ejected from

outside to the inside will be locked via two key holes, which allows double the protection. Furthermore, the door at the For the flooring, I have kept up the wooden theme, and I have base of the stairs will also be locked in case the glass exterior

Fitted to the roof both externally and internally will be cameras For the walls, I was inspired by 'Tadao Ando', and to keep in with night time modes, that will operate 24/7. The glass will

Roofing

As the building is not very tall, I did not believe that saftey railings were necessary, however, signage signifying the risks The furniture will be made from a darker mahogany, which will of falling off of the roof will be strongly advised. Furthermore, teenagers, or any other demographic jumping from the highest point of the roof for fun, as this may lead to serious iniuries











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Site Visits

1st Visit

Condition of the site

The site has just begn construction, and is in the first stage. While I was there, the construction team were clearing the area and levelling out the ground, while also analysing the pipework and infrastructure below the ground.

| Reason for Site Visit

The lead architect of the project had to meet up with the contractor to discuss the safety measures that will be put in place to protect our building, as well as Stratford International station which is next door.

These discussions included, the positioning of bollards in front of buildings, evacuation routes for buses, parking capacity for emergency services in the event of a terrorist attack.

Challenges of the Visit

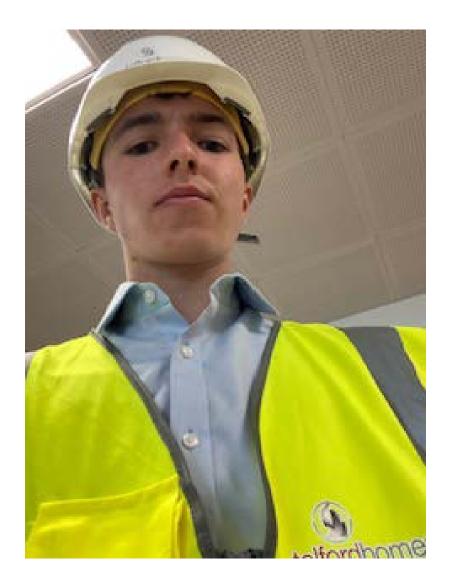
The building which will be constructed is located right next to a power station room which powers the HS2 railways and the local residents and station. Therefore, the building must keep this station protected and must plan for the event of a terrorist attack or failures.

What I learnt

This visit showed me how much there is to think about when designing and constructing a building which I previously would not have thought of. This became apparent when the architect, consultant and project manager discussed how lights would work for over 10 minutes, and discussing how they would turn off and on in the event of an attack.







2nd Visit

| Condition of the Site

When visitng the site, the building was almost complete. The project was an apartment block bein completed near King's Cross St Pancreas tube station.

Most of the apartments had already been sold, and most were almost finished, and the project is expected to finish by September (the latest)

| Reason for visit

This visit gave the lead architect a chance to look around and make sure that everything was correct. In addition, they would pick up on small inaccuracies and make suggestions to the construction team while finishing the building.

These visits are regular, and are used to make sure the construction process is running smoothly, and that they have no questions concerning the plan.

What I learnt

I understood the finishing processes involved in completin the building - i.e. watching the sub contractors add the finishing details to a room. It also showed light tot he incredibly long process which is involoved when building a building, as this small project has been underconstruction for over two years.



3rd Site Visit

| Condition of the Site

The site was in the "concrete phase". This meant that the construction team were building the solid frame for the builing, by using concrete.

At the time of my visit, about 5 floors had been completed and they were working on escalatin the project another two floors.

Reason for Visit

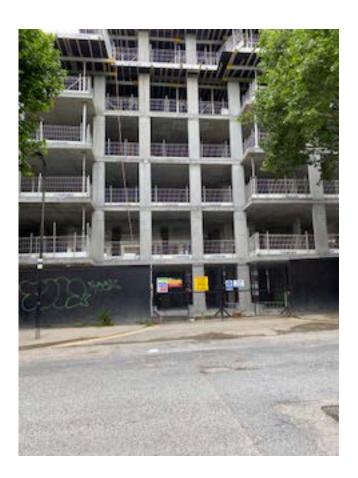
This was another weekly check up, to analyse the process and make sure verything is running smoothly. Furthermore, it gave one of the new architects on the project a chance to see his creation.

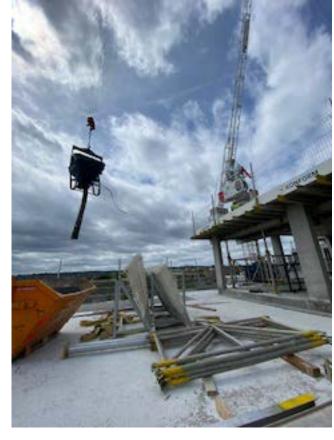
What i learnt

This visit opened my eyes to the beginning stages of the construction process. It also taught me how buildings are put together.

We watched a staircase being filled with concrete, and I was told how steel frames are used to prevent the concrete bending in the centre.

This was my most favoured visit of the three, as It tauht me the most, and it made me feel engaged in the building process.

















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