

PERFORM

“GREASE THE MUSICAL”

ADZ6003 Major Project
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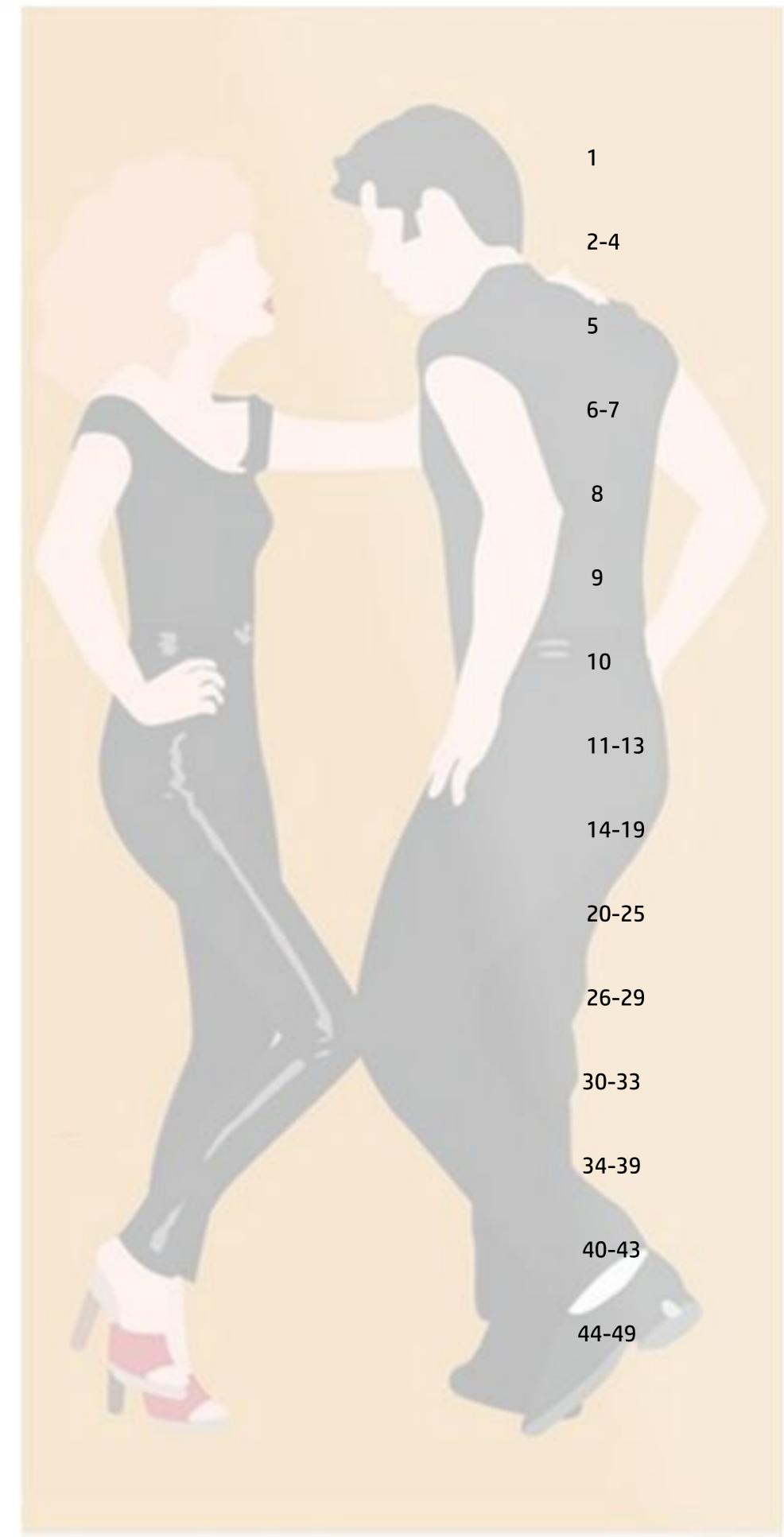
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DETAILED DESIGN BRIEF

VENUE: Boneyard, Paper Mill Road, Cardiff, CF11 8DH

BUILDING: Shipping Container

DESIGN: Musical Theatre

A musical performance starring Grease set in the genre of Rock 'n' Roll expressing how performers act, sing and dance all in one.

The site will be reformed into a 1950's retro theme taking members of the public go back through time showing how it once was. Grease the musical is an upbeat performance of a love story, where the public can interact by dancing and singing along allowing them to be part of the act but era it was set in. By even dressing up in the style or as the actor's roles.

By recreating The Bone Yard in Cardiff into a 1950's musical I will be making use of the whole site to achieve my desired outcome, by redesigning the site to create an approachable atmosphere drawing customers into the space allowing them to explore their surroundings.

The performance, refreshments and promotion buildings will be spaced out allowing them to have their own zones where COVID-19 measures are taken place drawing customers in while making is safe for their wellbeing.

Throughout this design project I want to achieve this by focusing on the era and the musical and the range of colours used to create the outcome for it to be an upbeat and fun time allowing customers to enjoy themselves and have fun due to difficult circumstances that has occurred throughout this pandemic.

Throughout this project my design will consist of three key elements such as:

PERFORMANCE SPACE: A large area for the stage to be positioned to allow the musical Grease to take place, whilst also including a seating area for the audience to relax and watch

REFRESHMENT SPACE: A smaller area of the site for a bar thats redesigned into a 1950's theme diner allowing customers to have refreshments throughout the performance whilst also having snacks that would be found in a theatre

PROMOTION SPACE: A shop that will allow merchandise to be sold to the customers allowing them to have a souvenir to remember what the performance was like when they came to watch the show.



HOST BUILDING ANALYSIS: LOCATION ANALYSIS

Surrounding fence has different heights making the area look untidy as well as the vandalism sprayed on it

The site has one main access point where the entrance is on the road

Streetlamps used to light up the area



The site is surrounded by a metal fence making the site suitable and safe from the train tracks to have activities take place

Fairly even grounds around the site for wheelchair users



The site sits in between two train tracks

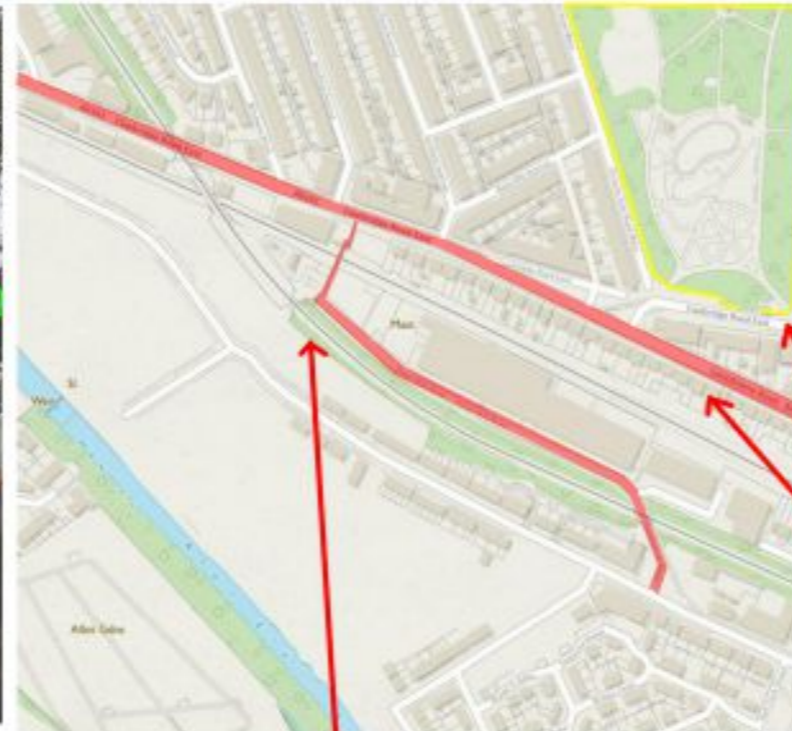
One train track is quiet and the other is fairly busy



The location gives the atmosphere of an industrial site feel due to the use of shipping containers as buildings but also the warehouses of different businesses

Less likely to have noise complaints for a musical theatre to be designed on the site due to houses not being directly beside the site

The exterior of the site gives the impression that there would be lots of heavy vehicles driving up and down the road all day



The location of the site is based around the outskirts of the city centre not far from Victoria Park

Major bus routes on Cowbridge Road East

On one side of the train tracks is a newly developed housing estate and the other side there is more housing positioned on a busy road. This gives a great opportunity to redesign the site into a musical theatre due to lots of families living close by

Railway bridge footpath so customers can walk to the site and not drive or use any other transport, however it isn't suitable for wheelchair users or push chairs due to the stairs

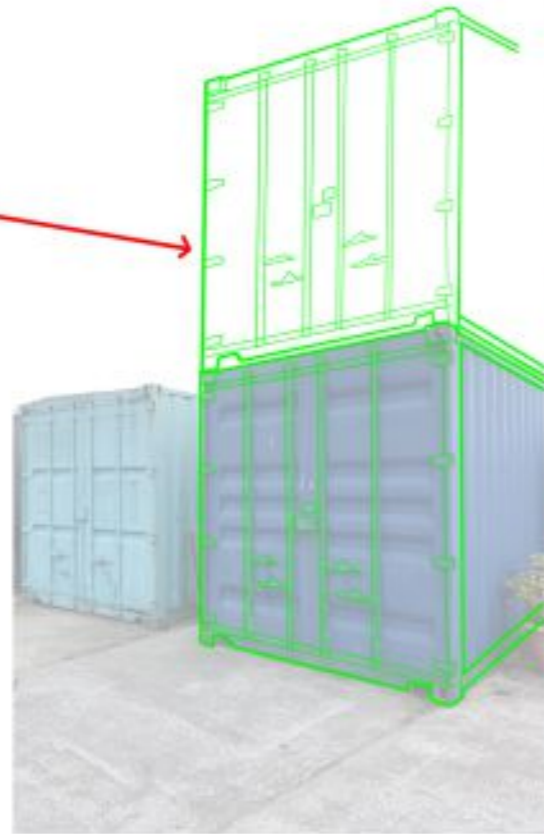
Multiple types of transport to get to the site: car, bike, train, bus, and walking

HOST BUILDING ANALYSIS: SHIPPING CONTAINER & SITE ANALYSIS

The use of bright coloured containers gives an inviting approach to customers

Structure of the containers are along the boarder of the fence creating an open space courtyard

Can stack containers vertically and horizontally to create a unique structure, whilst also using a vertical container to create a lift shaft making it suitable for all abilities



Very sturdy and weatherproof possibly loud if rain hits them (could use a soft material to quieten the noise)



Open plan site area and seating zone

Circulation flow is accessible to wheelchair users to enter each container without restrictions stopping them moving freely



Can easily space furniture out to maintain the 2 metre distancing

Sun light seems to only enter from the entrance of the site which can lead to more artificial light inside the containers



Gazebo covering so outdoor activities can still take place no matter the weather conditions

Flat concrete plot of land

Parking outside the site and enough space for on-site parking but could have a limitation as to how many cars can be parked in the area

Easy to add windows and doors to allow more circulation flow and enter points to the the shipping container



Plants and ornaments to create an inviting and friendly feel



Maintenance needed incase rust or corrosion occurs

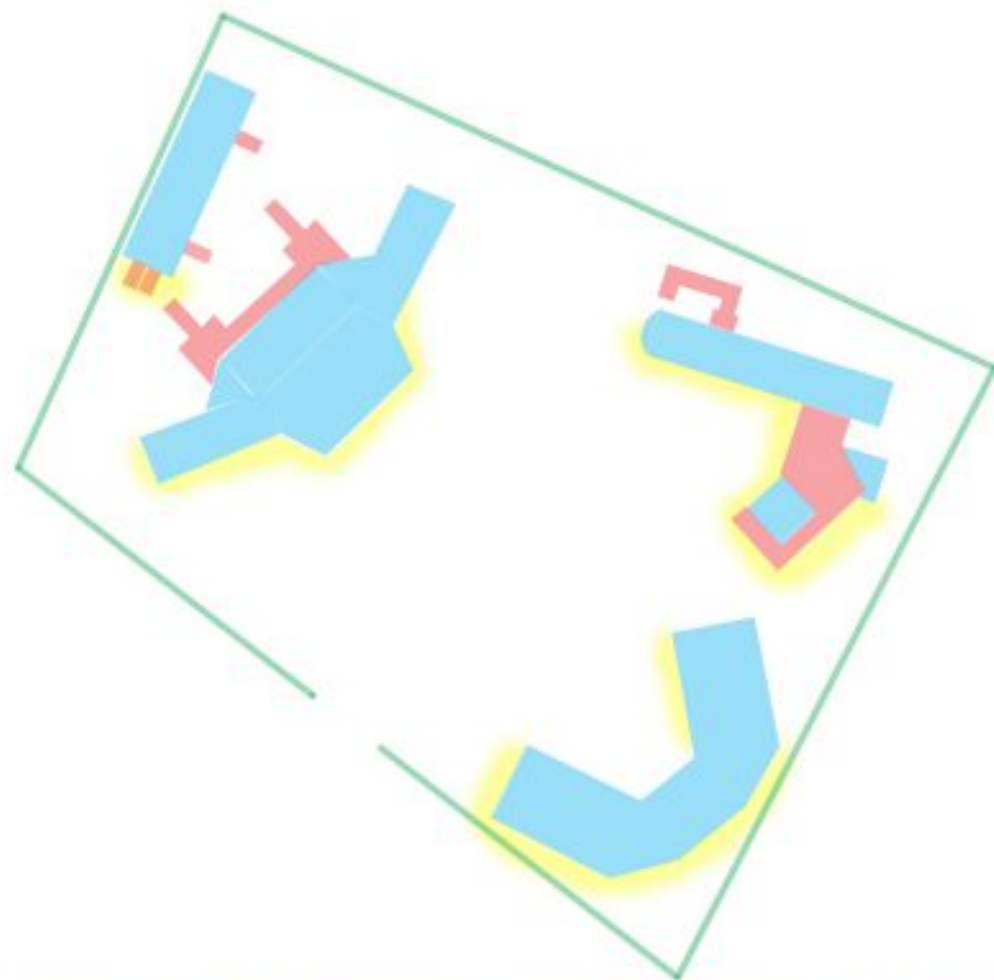
Already brightly coloured containers fitting in with the 1950's colour palette

Easy to maintain a one-way system due to Covid-19

SUN PATH ANALYSIS: BONEYARD CARDIFF

The sunpath diagrams demonstrates where the sun is most effective when positioned on The Bone Yard site. By understanding the sun path it allows my design to have the best outcome for the site and for each of the key elements **PERFORMANCE, REFRESHMENTS, PROMOTIONS.**

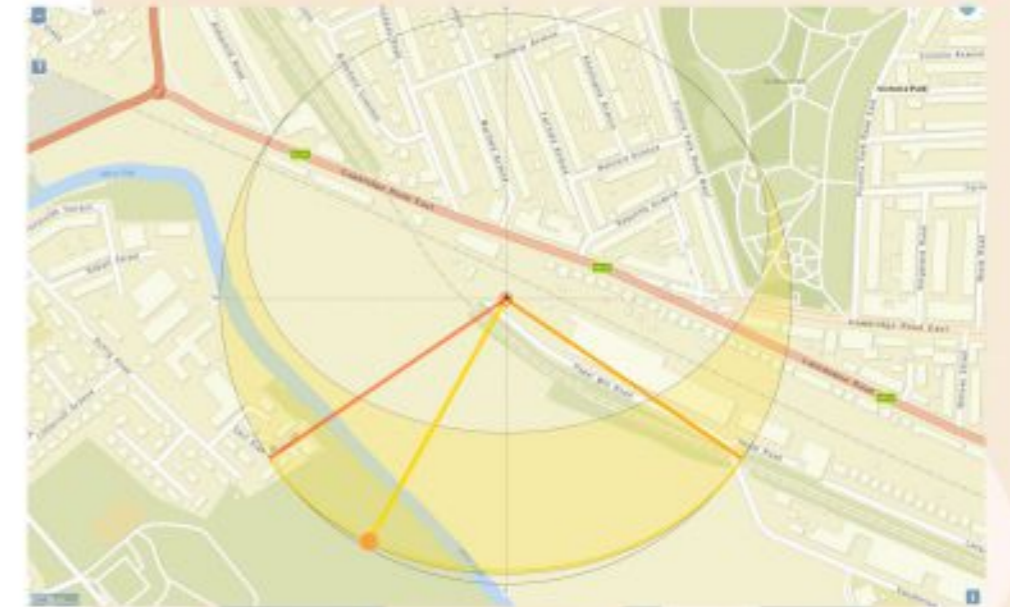
- From the front entrance looking into the site it gets the maximum sun throughout the day.
- The back of the site gets very little sunlight.
- Sides of the site gets sunlight at different times of the day, as the right-hand side would get more when the sun is setting. Where as the left side would get the sun in the morning .
- Throughout the whole site the area gets a nice amount of sun however, the containers will still need artificial lighting in them when the sun goes down to illuminate so that customers are able to see their surroundings for health and safety reasons whilst also keeping the site functional for its uses.



The diagram to the left shows a quick digital drawing focusing on the main buildings zones of my design. Where I have shown a quick sun path showing roughly where the sun will be most effective to my design layout.

- SUN PATH
- BUILDINGS
- STAIRS/BALCONY
- SITE

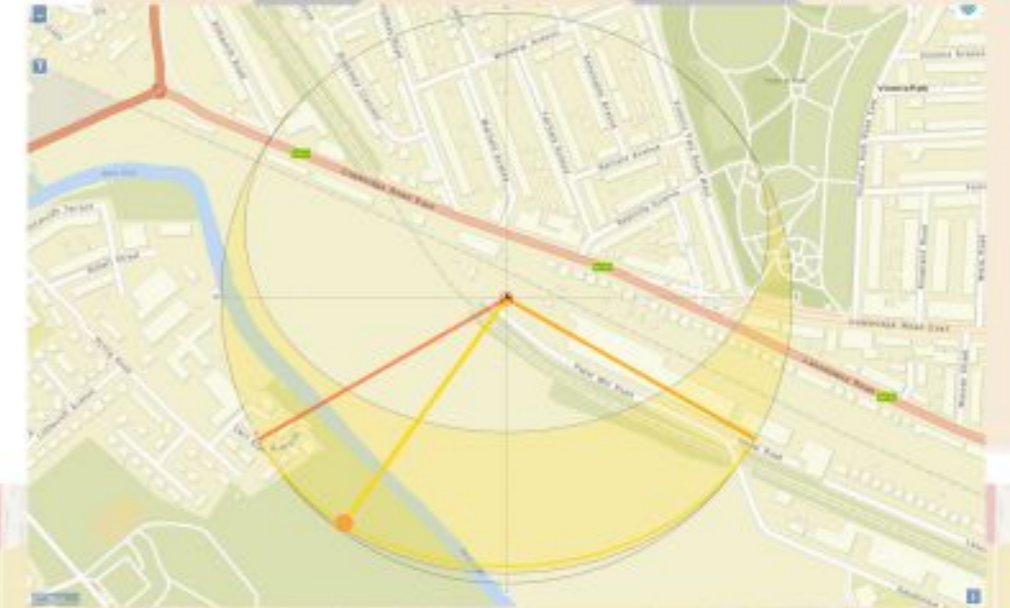
15th January 2020 @ 14:25pm



15th June 2020 @ 14:25pm



15th November 2020 @ 14:25pm



ACCOMMODATION SCHEDULE

All activities will have a one-way system put in place due to COVID-19

Activities needed for a 'Performance' area

- Toilets
- Backstage
- Control Box
- Stage
- Dressing Rooms
- Seating Area

Extra activities needed for a 'Performance' area

- Orchestra Pit
- Foyer (Box Office)
- Lighting
- Snack Stall (Popcorn/Ice-cream stall)

Activities needed for a 'Refreshment' area

- Storage
- Bar/Kitchen
- Toilets
- Dining area
- Fridge
- Neon lighting
- Jukebox
- Liqueur shelving

Extra activities for a 'Refreshment' area

- Cups/Plates/Glasses
- Alcohol press
- Soft drink press
- Posters
- Car
- Till
- Snack food

Activities needed for a 'Promotion' area

- Merchandise stall (clothing) pink ladies/t-birds
- Till area
- Shelving
- Posters
- Records, CD's, DVD's

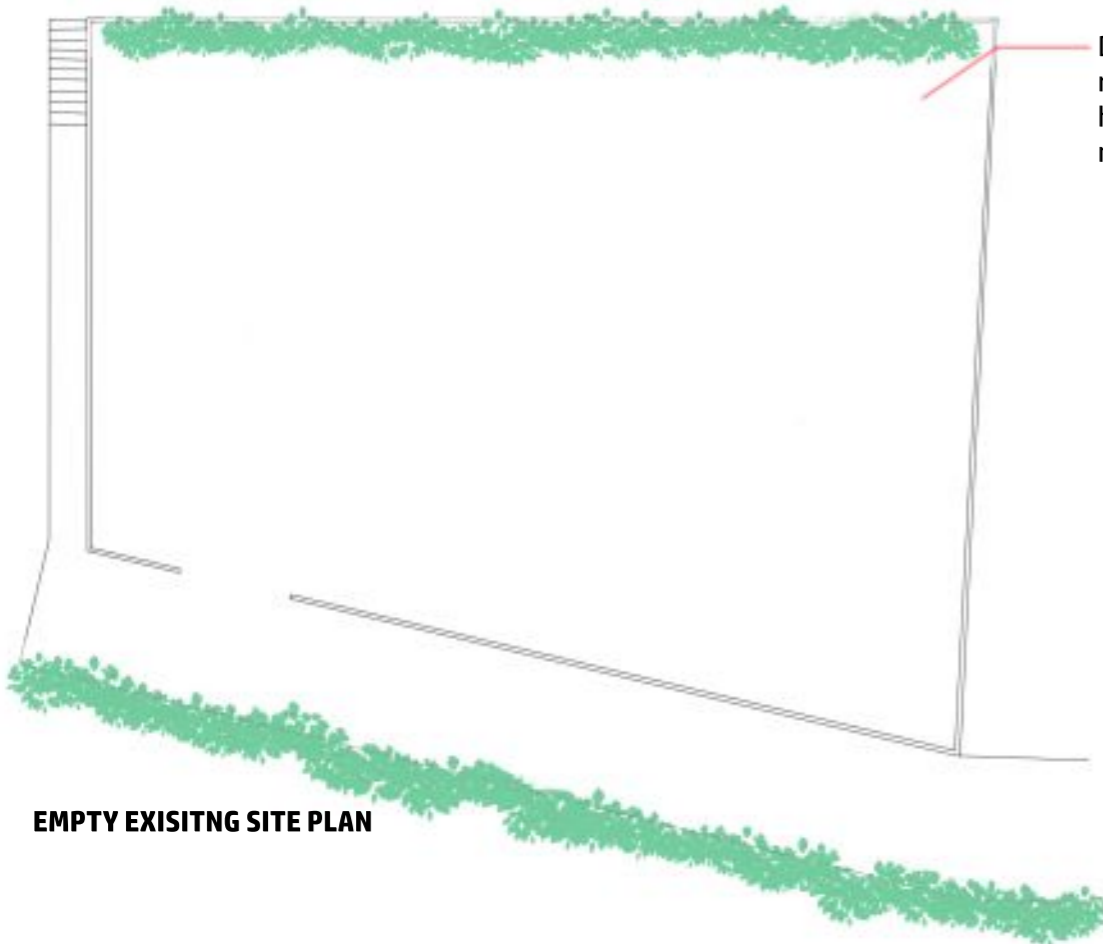
HOW TO PUT ON A MUSICAL:

- Producer
- Directors
- Assistant Director
- Musical Director
- Choreographer
- Set Designer
- Costume Designer
- Lighting/Sound Designer
- Stage Manager
- Stage Crew
- Property Master
- House Manager
- Publicity Coordinator
- Program Coordinator



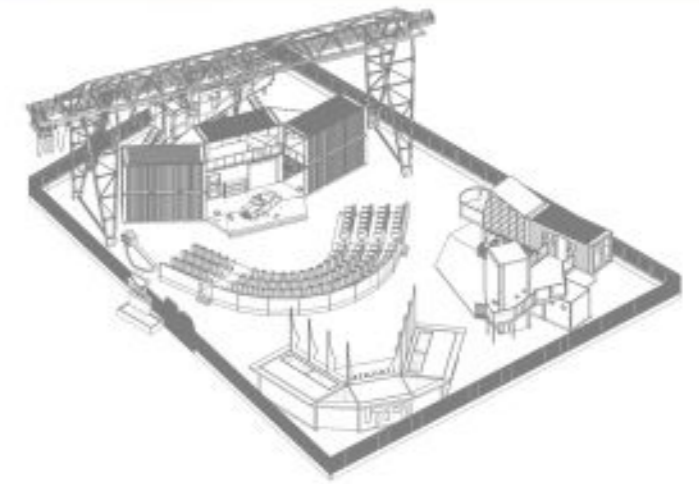
Another key element to my design is that when entering the site is that the box office will have the NHS track and trace section so that customers can use their app to scan the barcode for the health and safety of the customers. Customers will also have to scan their tickets on arrival and leaving to allow staff how many customers are on site incase of a fire

KEY MOVE DIAGRAMS
THE POSITIONING OF SHIPPING CONTAINERS
 SCALED 1:200



EMPTY EXISTING SITE PLAN

Due to the site plan containing shipping containers. I decided that by removing them to create an empty existing site plan it allowed me to have a great understanding on how I would redesign the site by having no obstacles in the way.

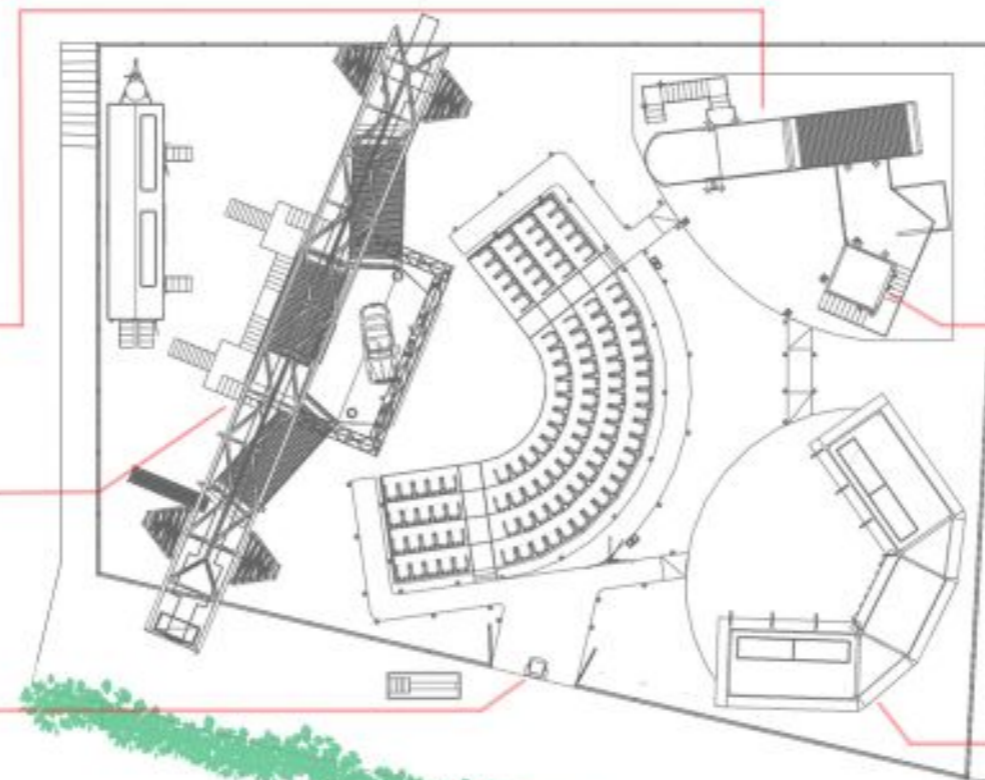


AXONOMETRIC REDESIGNED SITE 1:200

Positioning the Refreshment/Promotion area at the back right of the site allows customers to make use of all the existing site plan but also draws them in to explore all areas of the site.

By positioning the stage to the left side of the site plan it creates a more private zone from the customers to allow cast members to leave the stage and access the dressing room area without being seen during outfit changes for the scenes.

When entering the site I have included a box office for health and safety reasons, to keep count on how many customers are entering and leaving whilst also keeping track of COVID-19 cases.



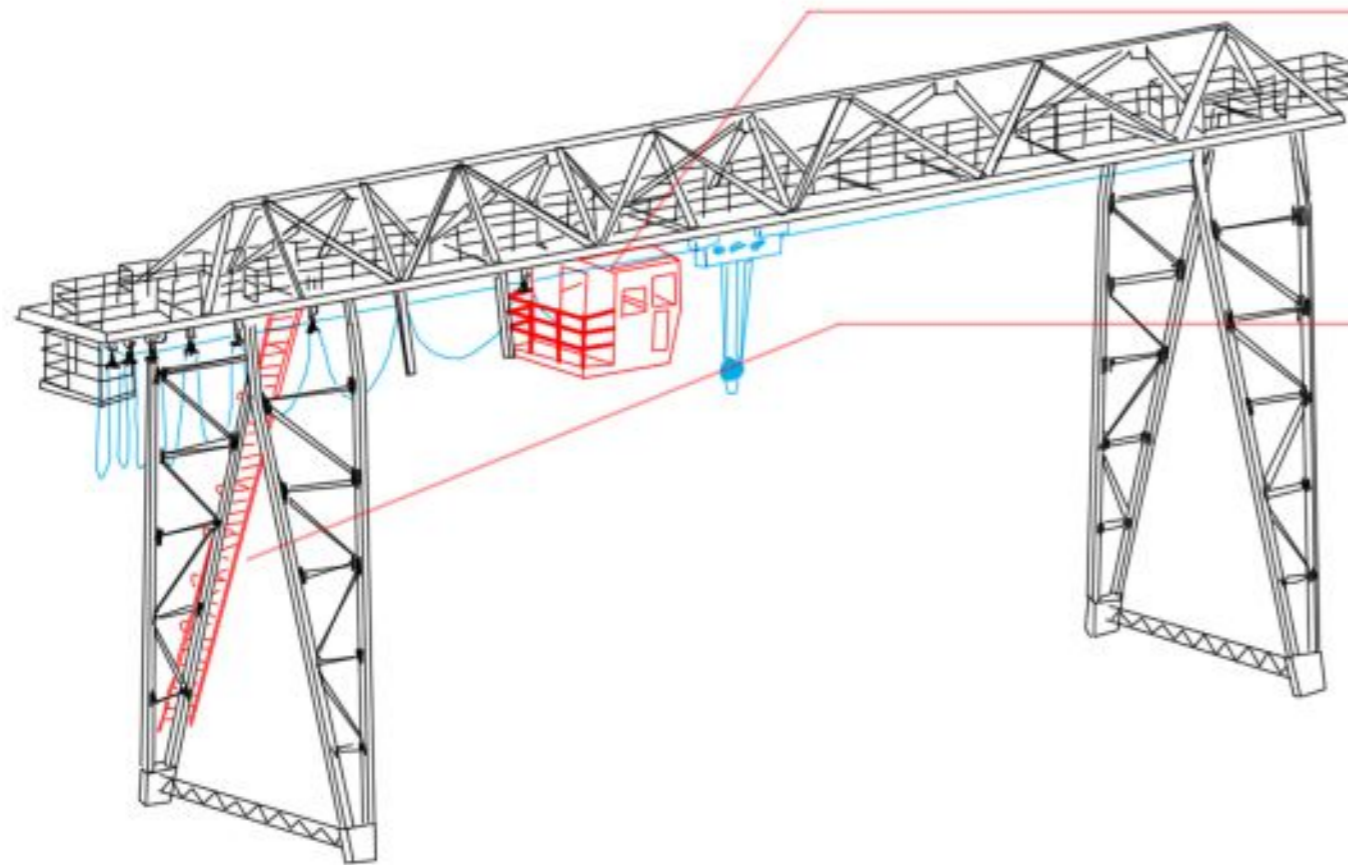
REDESIGNED SITE PLAN

A vertical shipping container has been used to create a lift shaft so that it's accessible for customers in wheelchairs or pushchairs to access the Promotion area to view the merchandise.

Overall the arrangement of the areas in the site plan gives an approachable feeling, inviting you into the site to exploring the surroundings following the one-way system that has been put in place due to COVID-19.

The toilets have been positioned to the entrance allowing customers to know where they are when entering the site plan allowing them to have a clear understanding when needing to use them.

KEY MOVE DIAGRAMS
THE SCENERY CHANGE
NOT TO SCALE

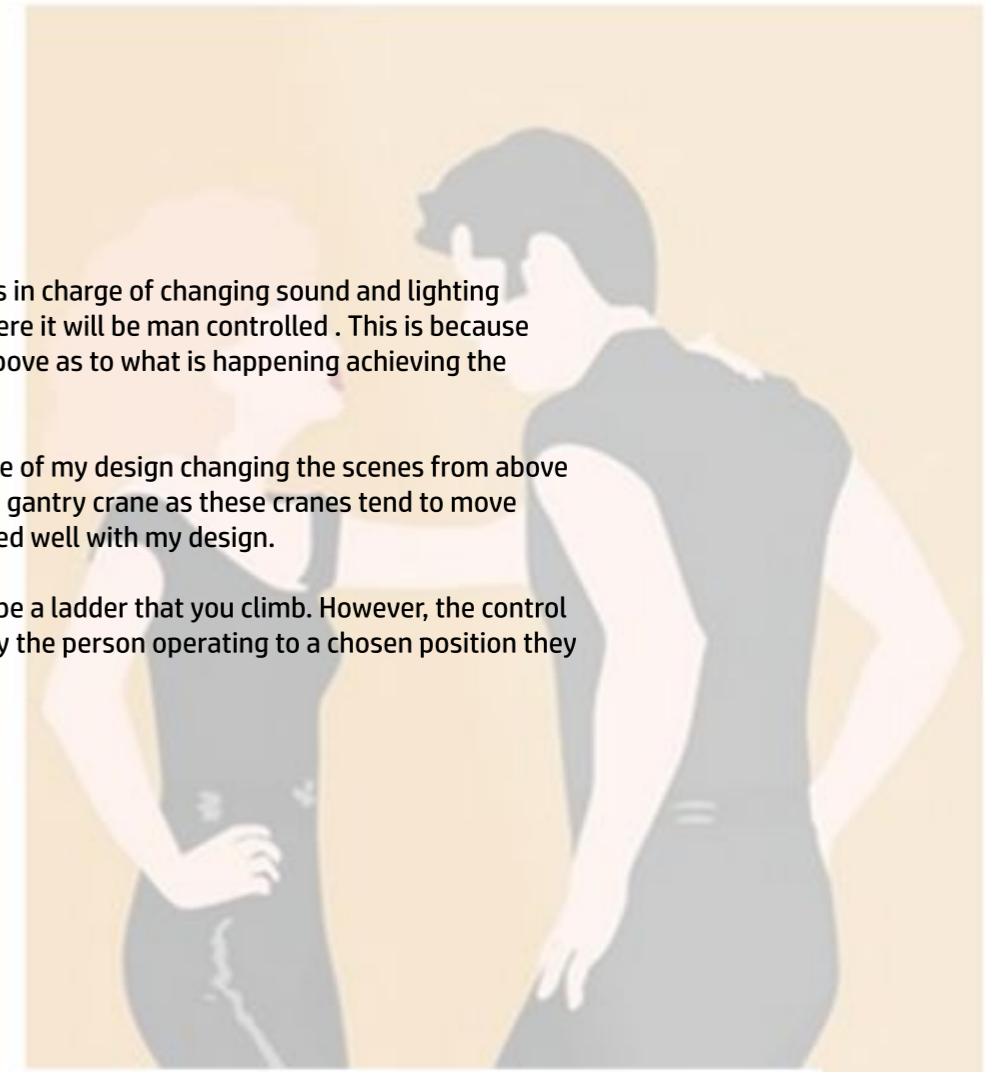


GANTRY CRANE WITHOUT SCENE

For my design the control room, that's in charge of changing sound and lighting will be built onto the gantry crane where it will be man controlled . This is because they'll have a good view point from above as to what is happening achieving the best outcome through the scenes.

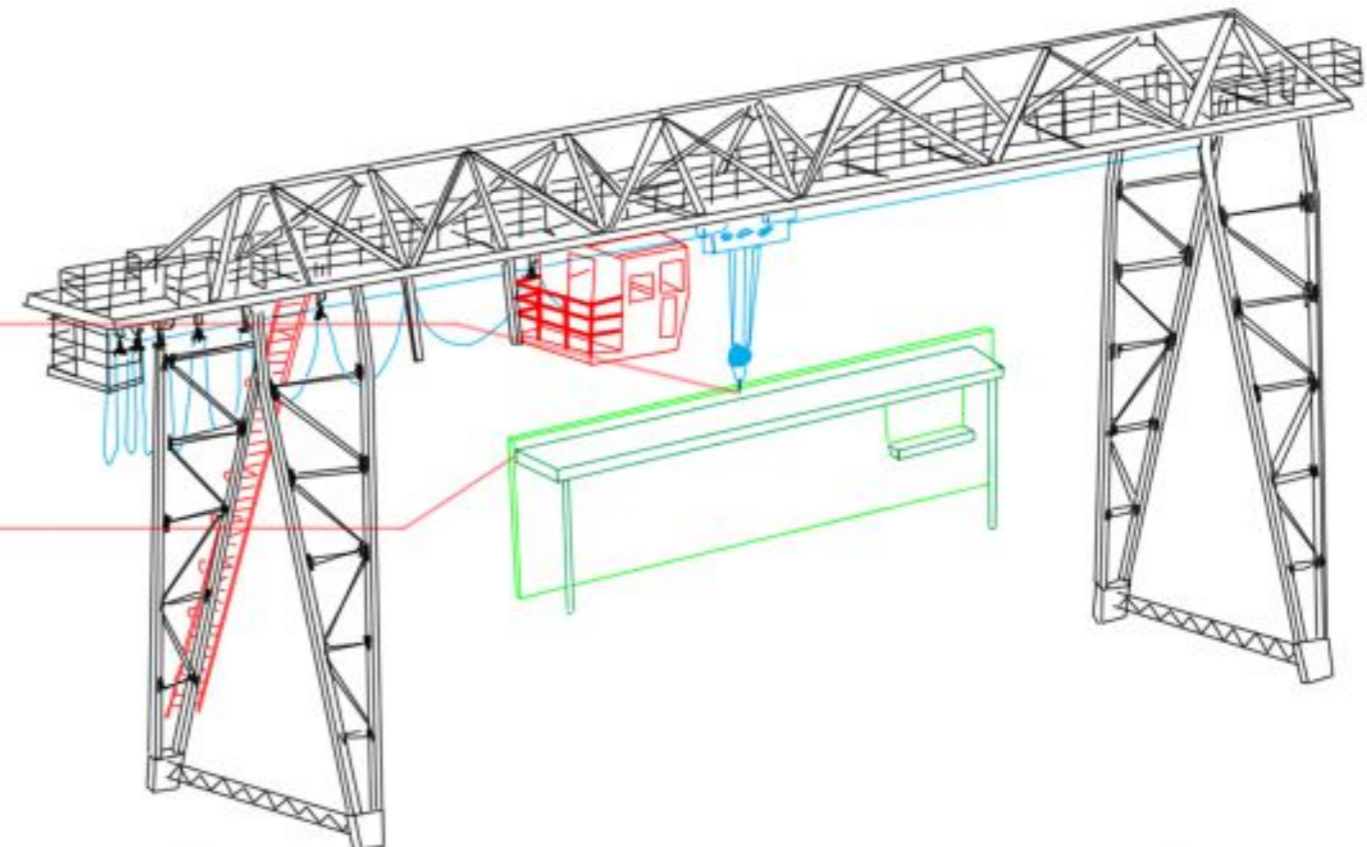
The crane will also be the main feature of my design changing the scenes from above throughout the musical. I have used a gantry crane as these cranes tend to move shipping containers around which fitted well with my design.

To access the control room there will be a ladder that you climb. However, the control room itself can be moved according by the person operating to a chosen position they feel is right.



When the crane is in use changing scenes it will be picked up by a strong magnetic grabber holding the centre or sides of a shipping container. This will be done four times due to the amount of stage scenes I have designed for the performance. It will also be man controlled so that the changes run smoothly.

Each scene will be lightweight with parts of the furniture will be constructed to the scene for quick turn arounds. While other props for the scene will be hidden down the side of the stage shipping containers where they will be brought onto stage by cast members.



GANTRY CRANE WITH SCENE

MICROTECTONICS

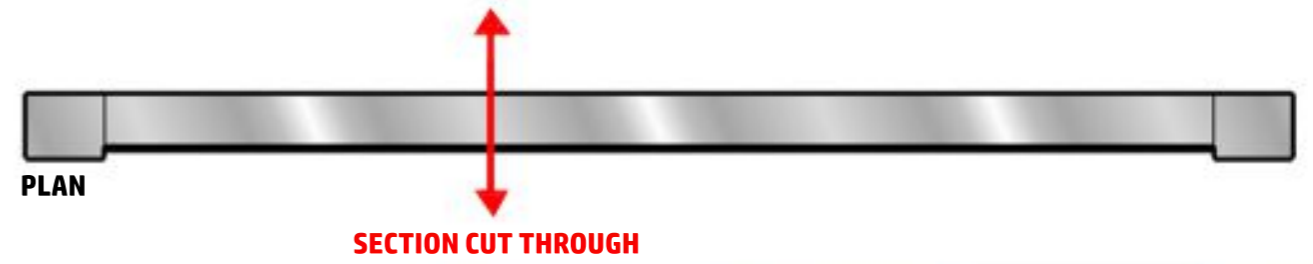
SCALED 1:200

HEALTH AND SAFETY

For health and safety using Toughened Laminated Glass for the lift shaft window prevents accidents happening i.e glass breaking due to it being x5 stronger than standard glass.

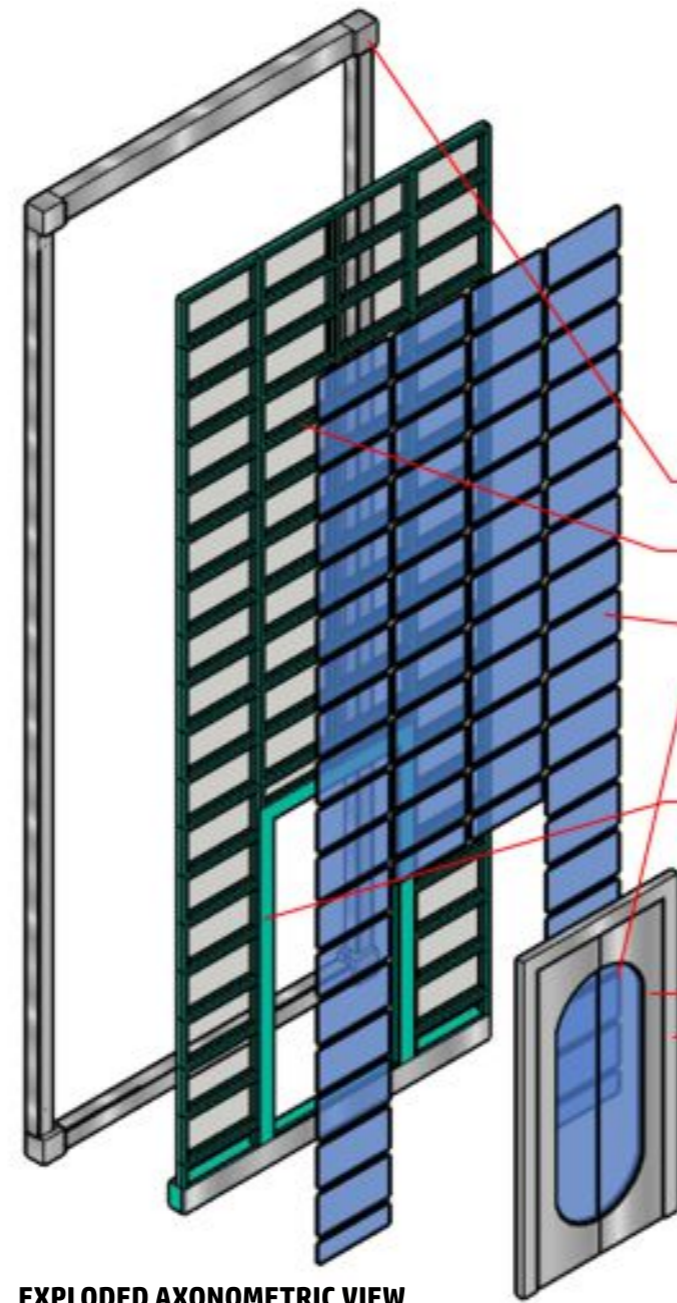


SECTION THROUGH LIFT WINDOW



PLAN

SECTION CUT THROUGH



EXPLODED AXONOMETRIC VIEW

Corten Steel - Shipping container structure

Stainless Steel - Window frame thickness 20mm

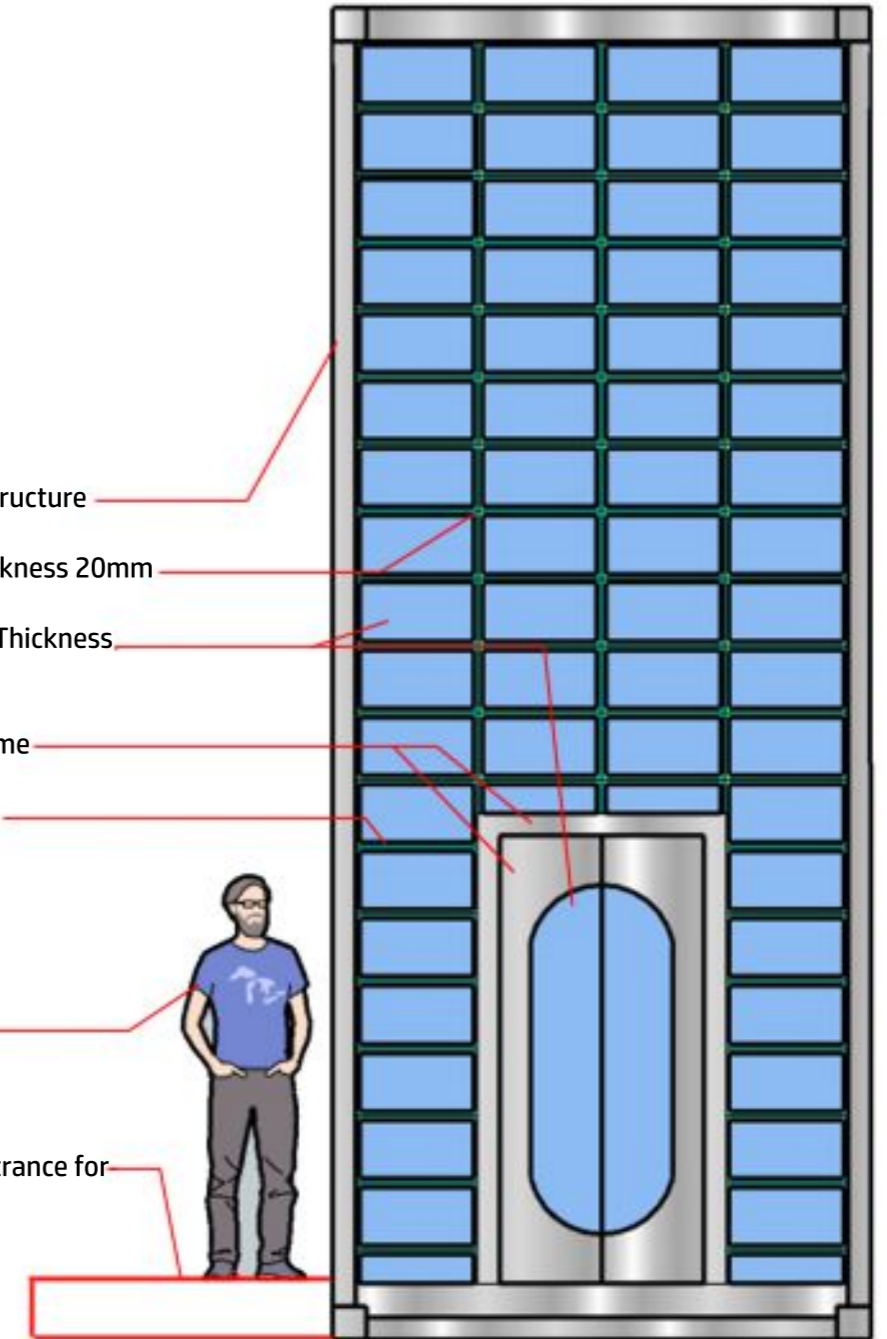
x60 Toughened Laminated Glass - Thickness 10mm, 510mm x 260mm

Stainless Steel - Door and door frame

Powder Coated - To colour the steel

Human figure showing the scale

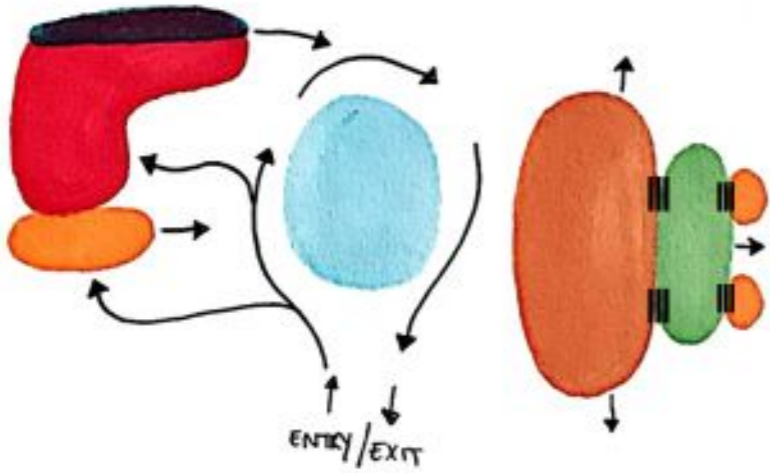
Platform 150mm - Gives a flush entrance for wheelchairs etc.



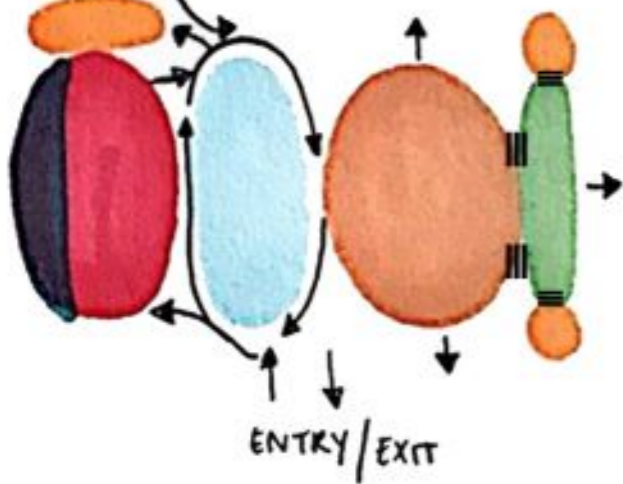
FRONT ELEVATION

BUBBLE DIAGRAMS
NOT TO SCALE

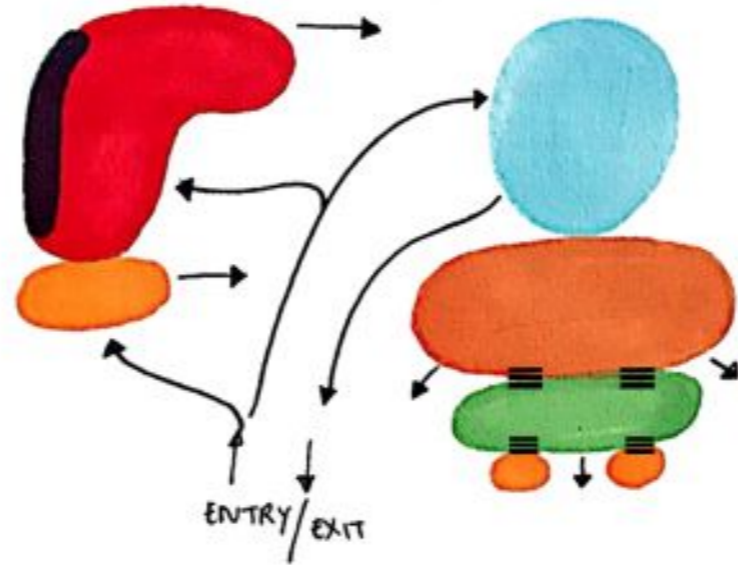
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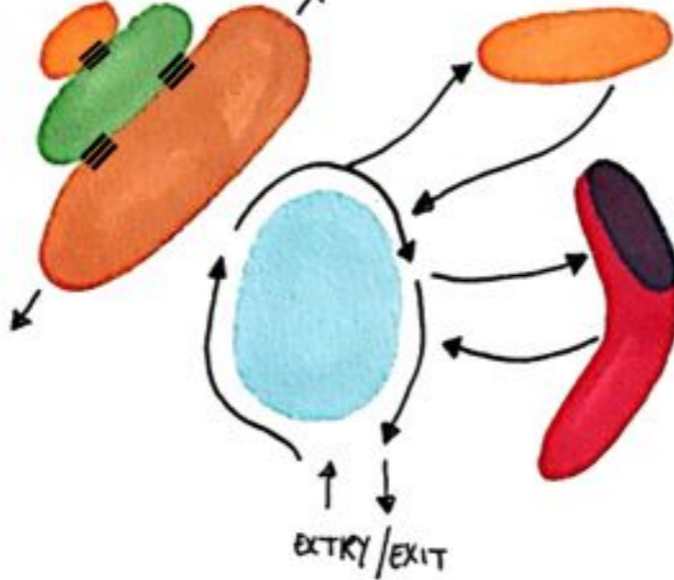
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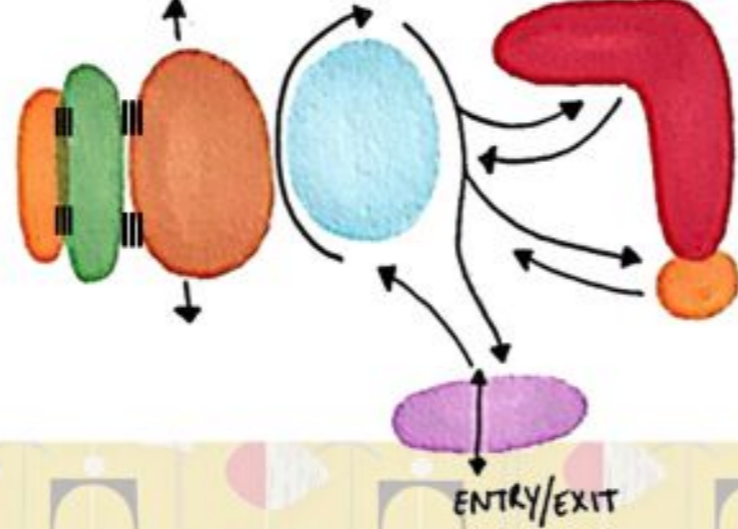
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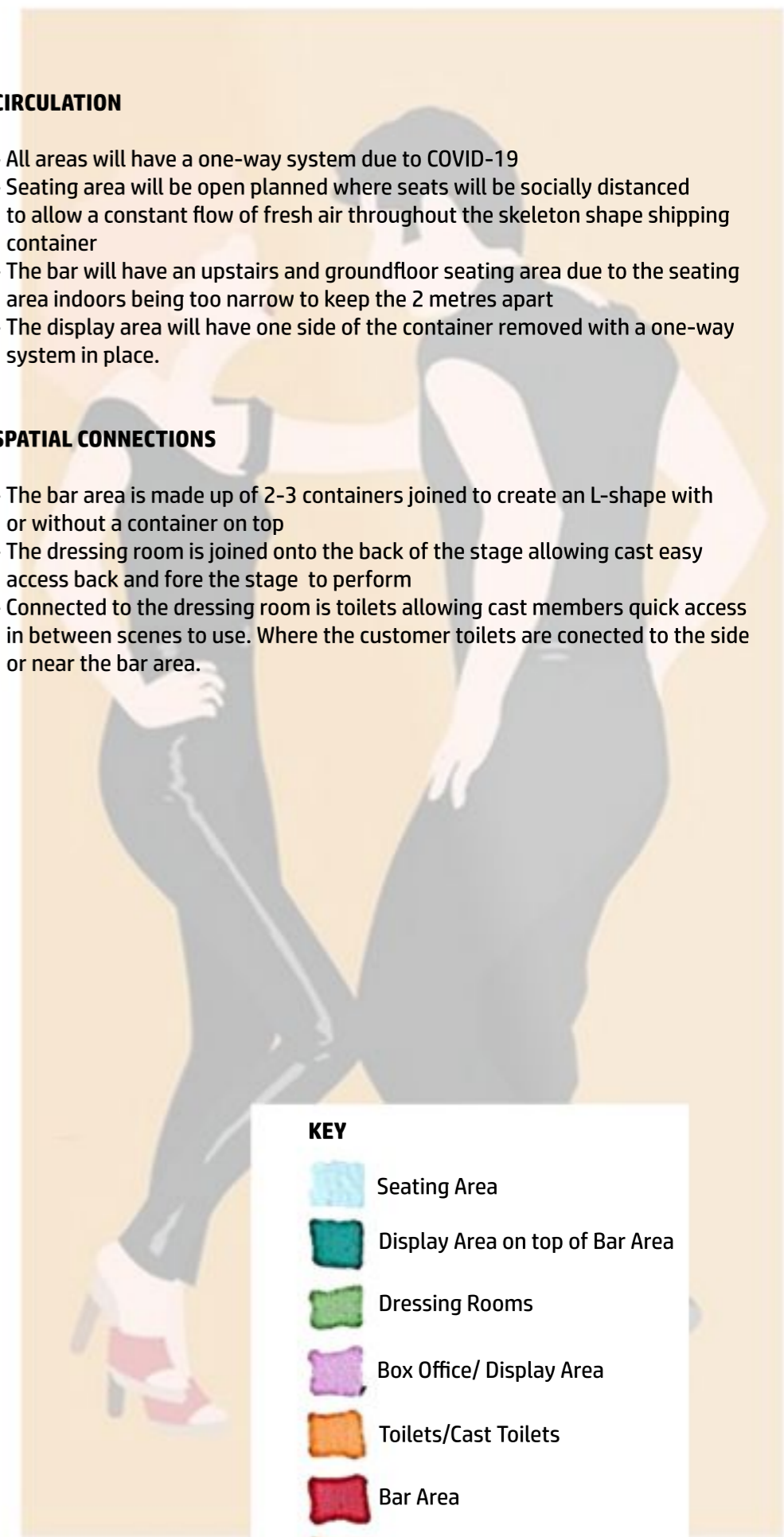


CIRCULATION

- All areas will have a one-way system due to COVID-19
- Seating area will be open planned where seats will be socially distanced to allow a constant flow of fresh air throughout the skeleton shape shipping container
- The bar will have an upstairs and groundfloor seating area due to the seating area indoors being too narrow to keep the 2 metres apart
- The display area will have one side of the container removed with a one-way system in place.

SPATIAL CONNECTIONS

- The bar area is made up of 2-3 containers joined to create an L-shape with or without a container on top
- The dressing room is joined onto the back of the stage allowing cast easy access back and fore the stage to perform
- Connected to the dressing room is toilets allowing cast members quick access in between scenes to use. Where the customer toilets are conected to the side or near the bar area.



KEY

- Seating Area
- Display Area on top of Bar Area
- Dressing Rooms
- Box Office/ Display Area
- Toilets/Cast Toilets
- Bar Area
- Stage/Performance Area
- Circulation Flow
- Spatial

ZONED PLANS

SCALED 1:500

WHAT WORKS WELL:

Design 1

- Clear one-way system on entering and leaving the site

Design 3

- Allows access to have on-site parking
- Each activity has it's own zone
- In result of fire, parking area can be easy to get to for a safe area

WHAT DOESN'T WORK WELL:

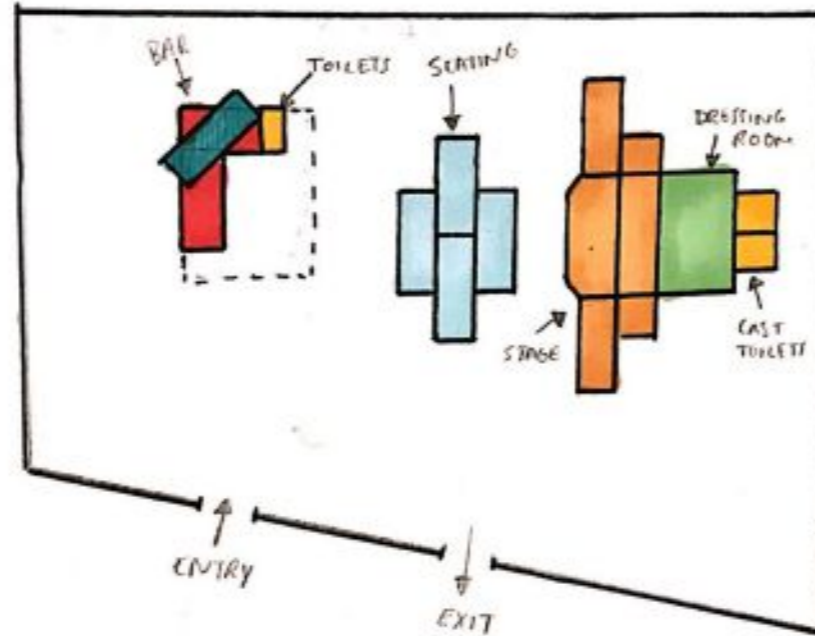
Design 1

- All looks to be in one line
- All positioned at back of the site

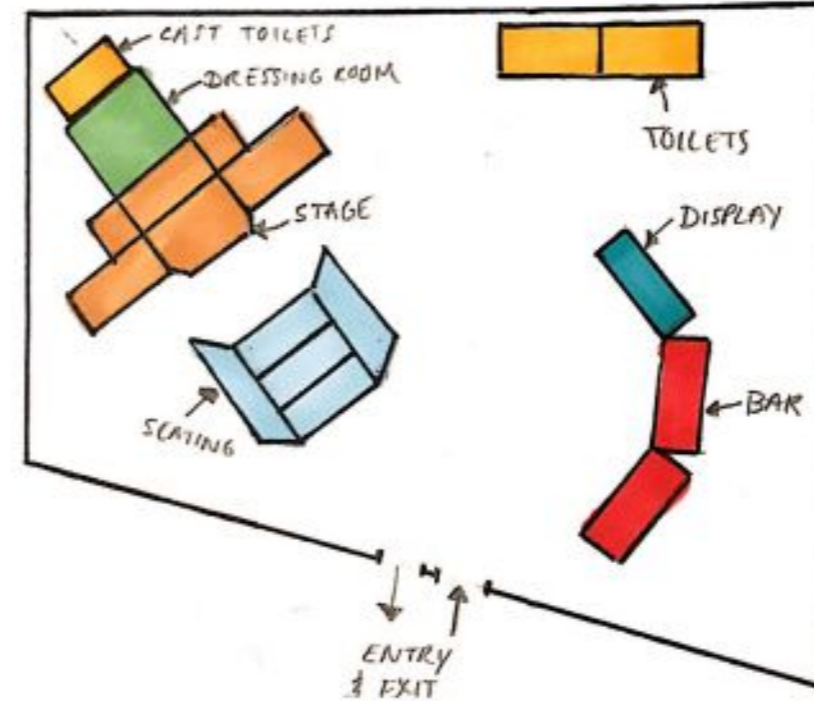
Design 3

- All positioned at back of the site
- One entry doesn't work well for COVID-19
- Seating area doesn't fit regulations
- Too much open space as you walk onto the site
- All looks to be in one area of the site

DESIGN 1



DESIGN 4



WHAT WORKS WELL:

Design 4

- Welcoming stage position
- Toilets are now separate from the bar area

Design 5

- Box office at entrance to control numbers entering and leaving the site
- Display seen at end when leaving the site making costumers look what's on sale
- Toilets one side of bar area

WHAT DOESN'T WORK WELL:

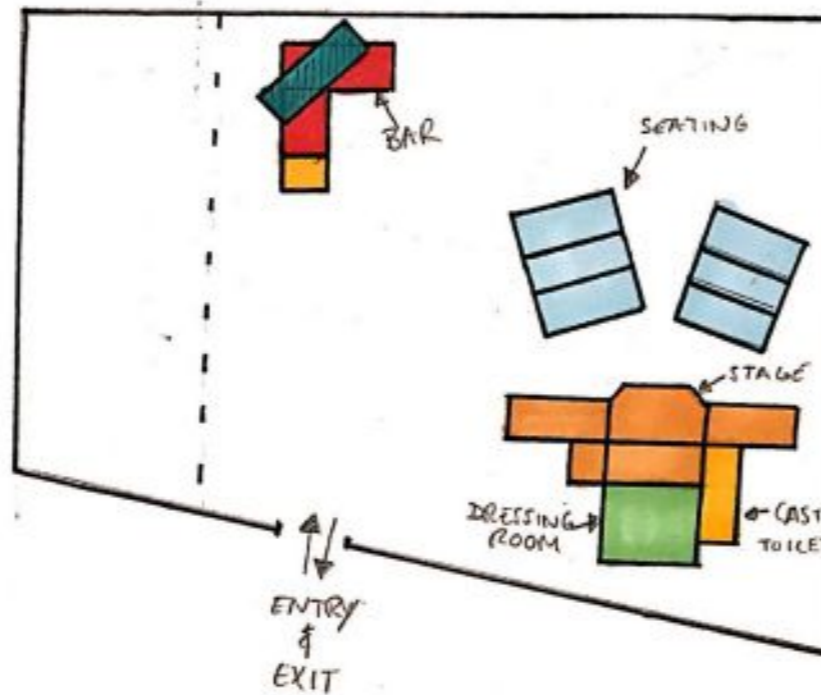
Design 4

- Seating could have walkway so it's more accessible

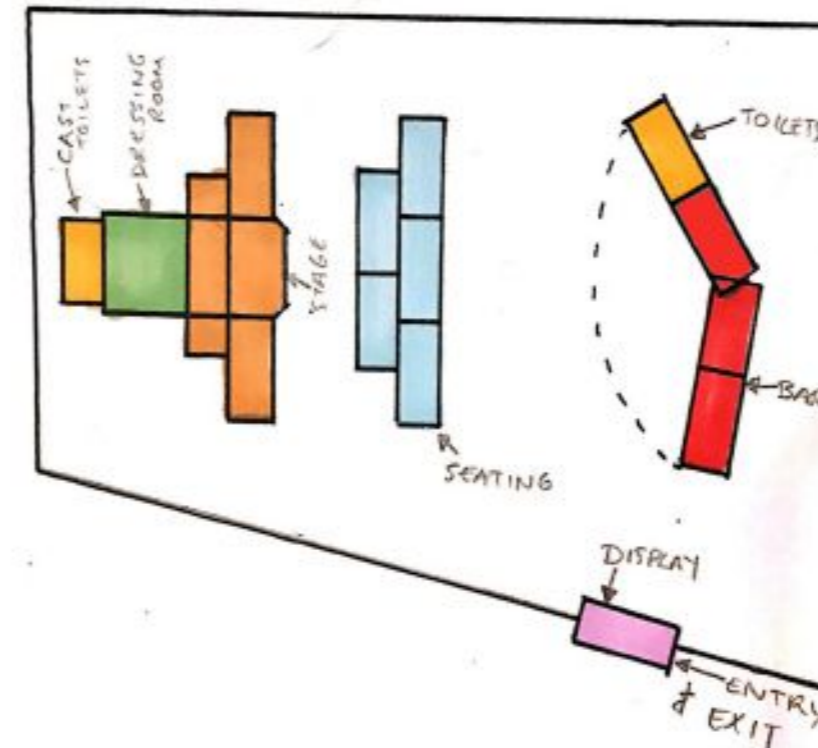
Design 5

- Set up doesn't feel approachable
- Seating hasn't been thought thoroughly to function properly

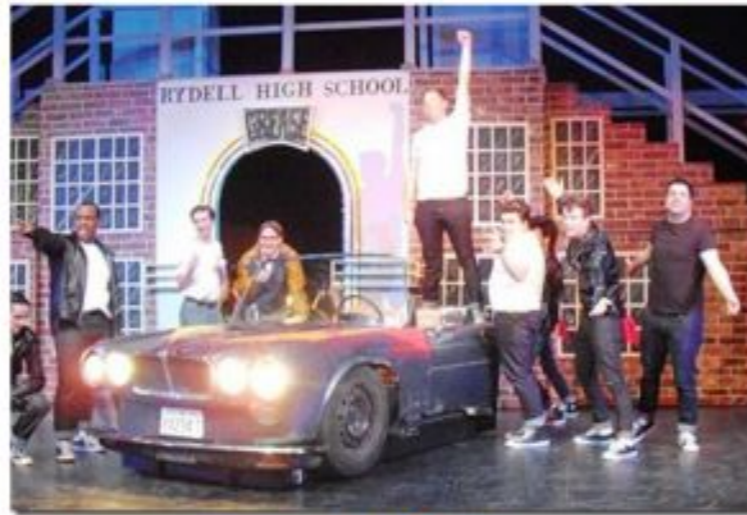
DESIGN 3



DESIGN 5



PRECEDENT STUDIES
GREASE STAGE/SET/SEATING DESIGNS



SEATING ARRANGEMENTS



By gathering inspiration based on the Grease musical and how school/theatre performances have designed and positioned their set designs, it gave myself lots of ideas on how I could recreate my chosen scenes. As by having little props on the stage it was still clear as to what scene was being presented.

I have also looked at two styles of seating areas for the performance space which I thought would be effect and suitable for the performance theme.

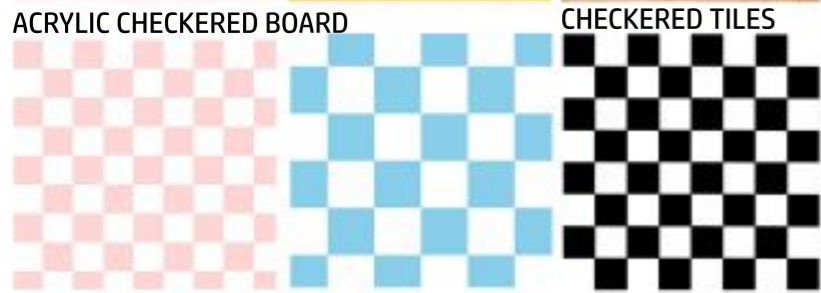
PRECEDENT STUDIES
1950's BAR DESIGNS



For the Refreshments area I knew I wanted to design the space as the Burger Palace scene from the musical Grease, this of which I would need to have lots of key features that American diners would have and look into the colour palette range used to achieve this outcome. By selecting these images it gave me a clear understanding of the use of materials, lighting and colours I would need to use if I was going to recreate these outcomes.



**PRECEDENT STUDIES
TEXTURES, MATERIALS & LIGHTING**



GOOGIE ARCHITECTURE

Throughout this project Googie Architecture had been a major factor with my design due to the use of unusual building shapes and the use of bright colours that link with the 1950's colour palette.

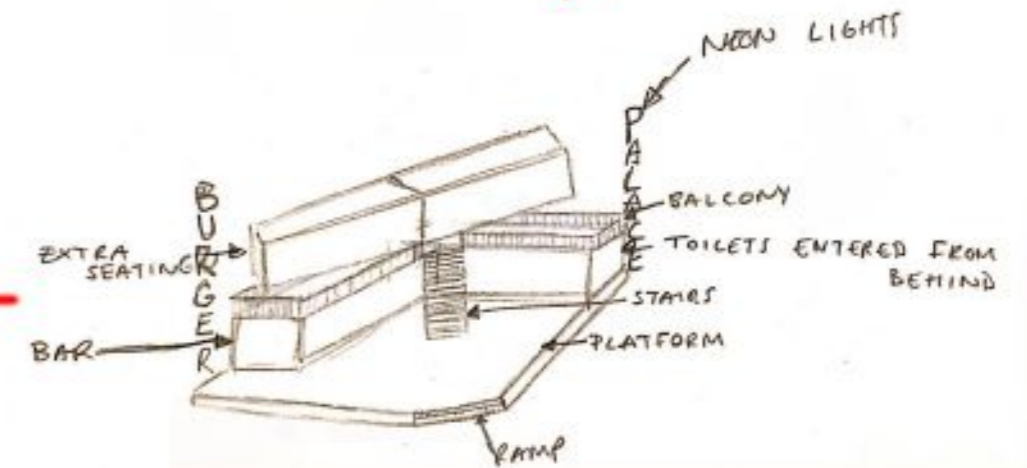
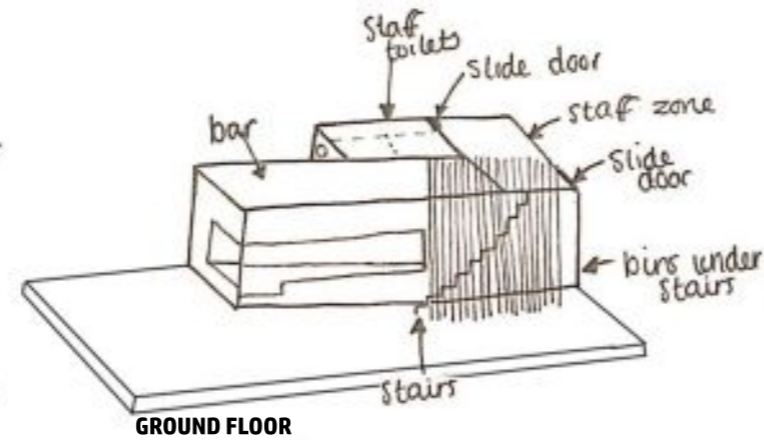
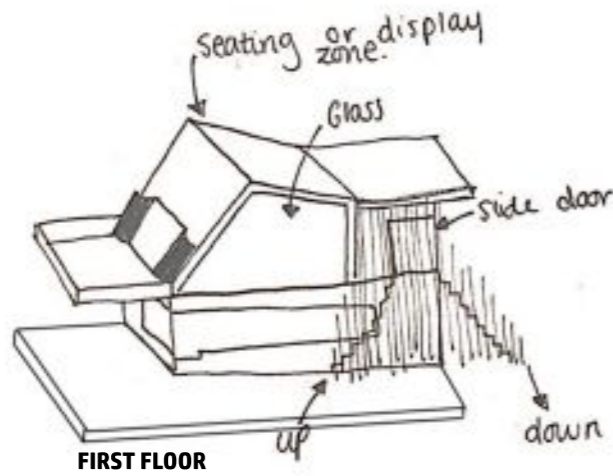
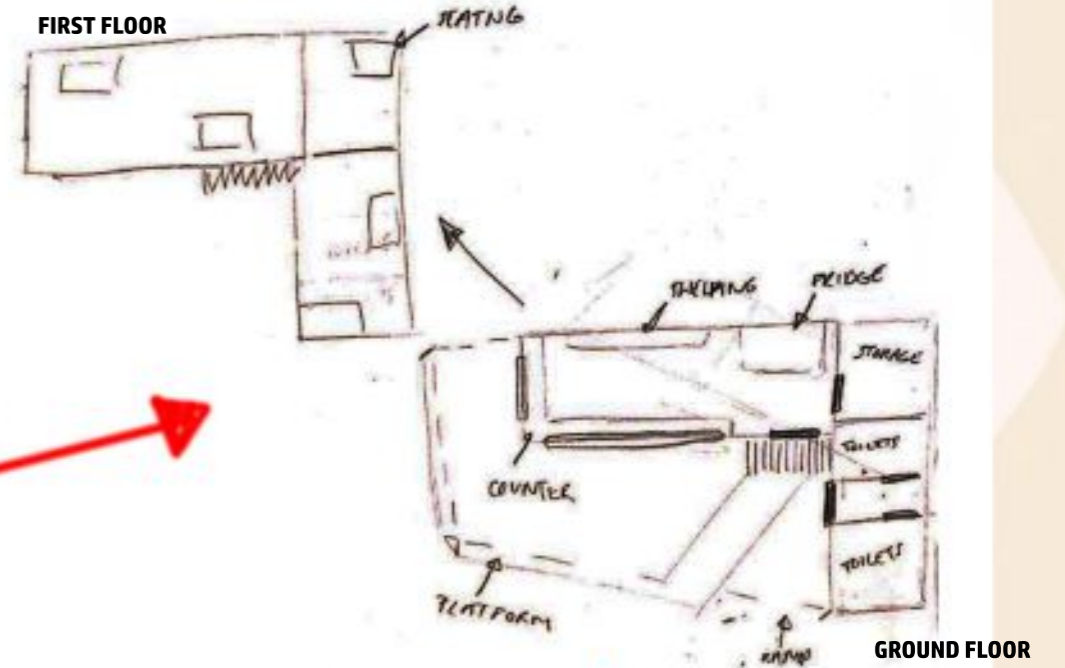
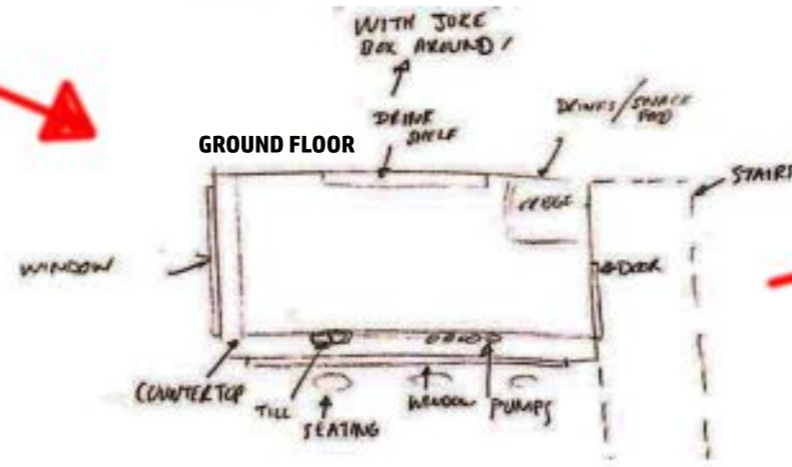
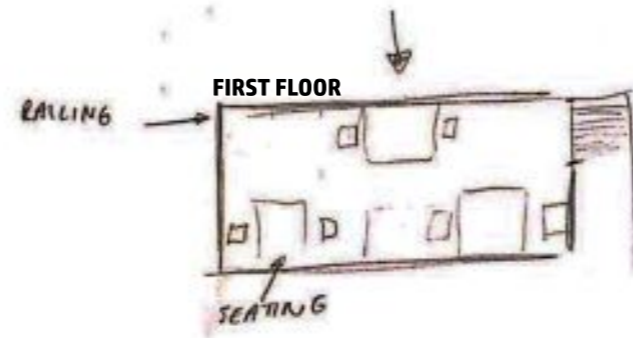
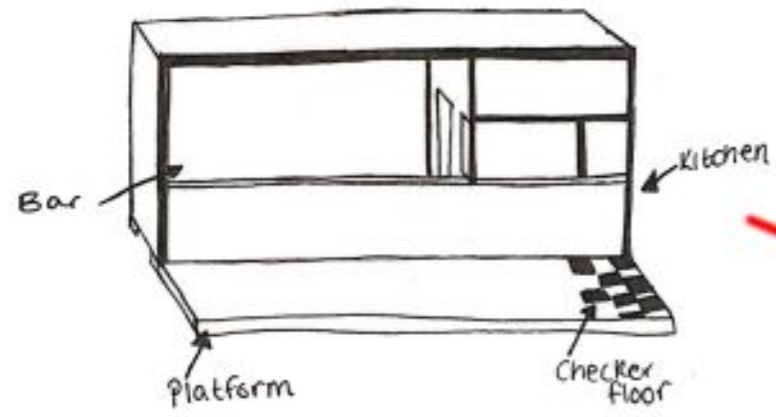
Googie Architecture is a futuristic design style that was originated in Southern California where it was very popular in the 1950's where it has features of Space Age and Atomic Age.

Some design features of this theme are:

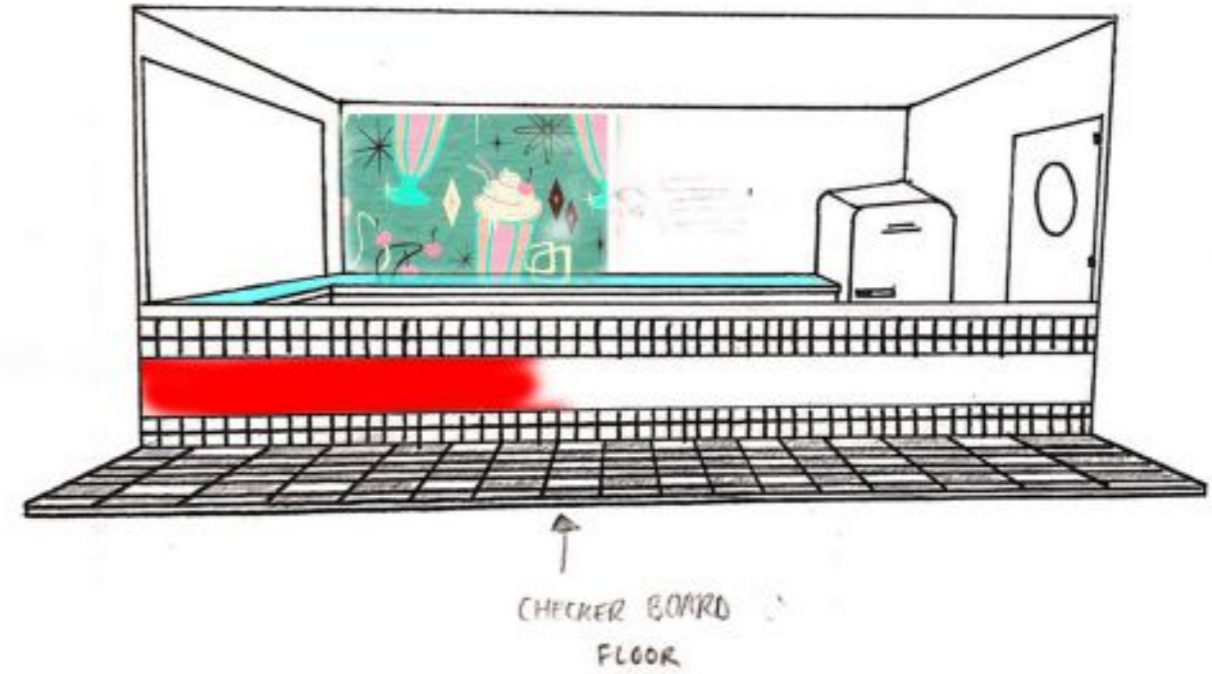
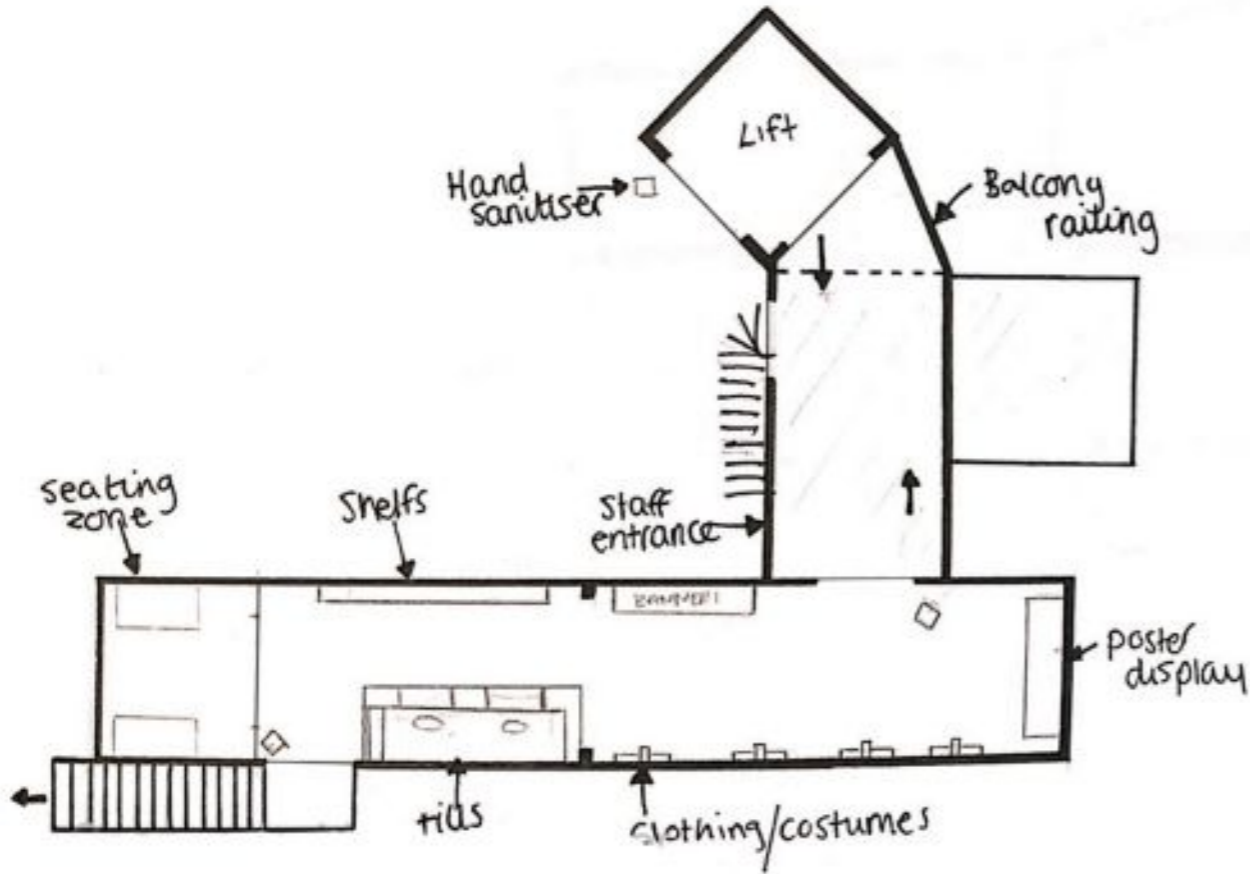
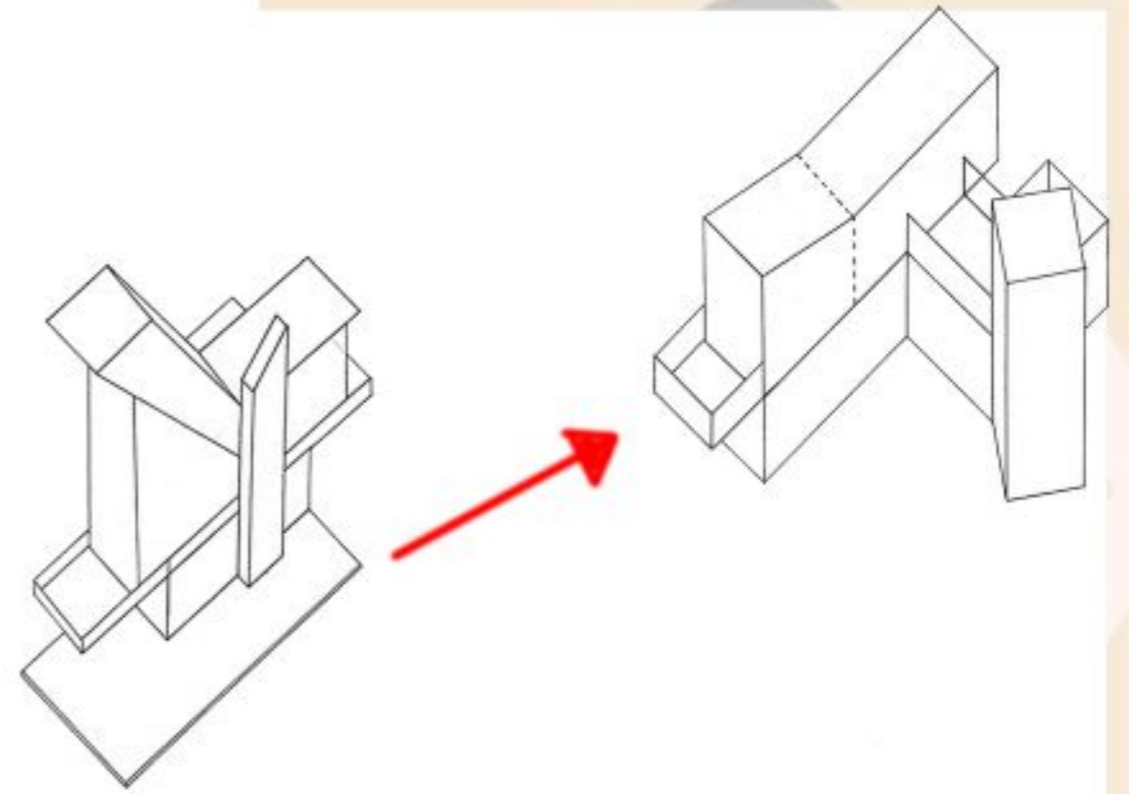
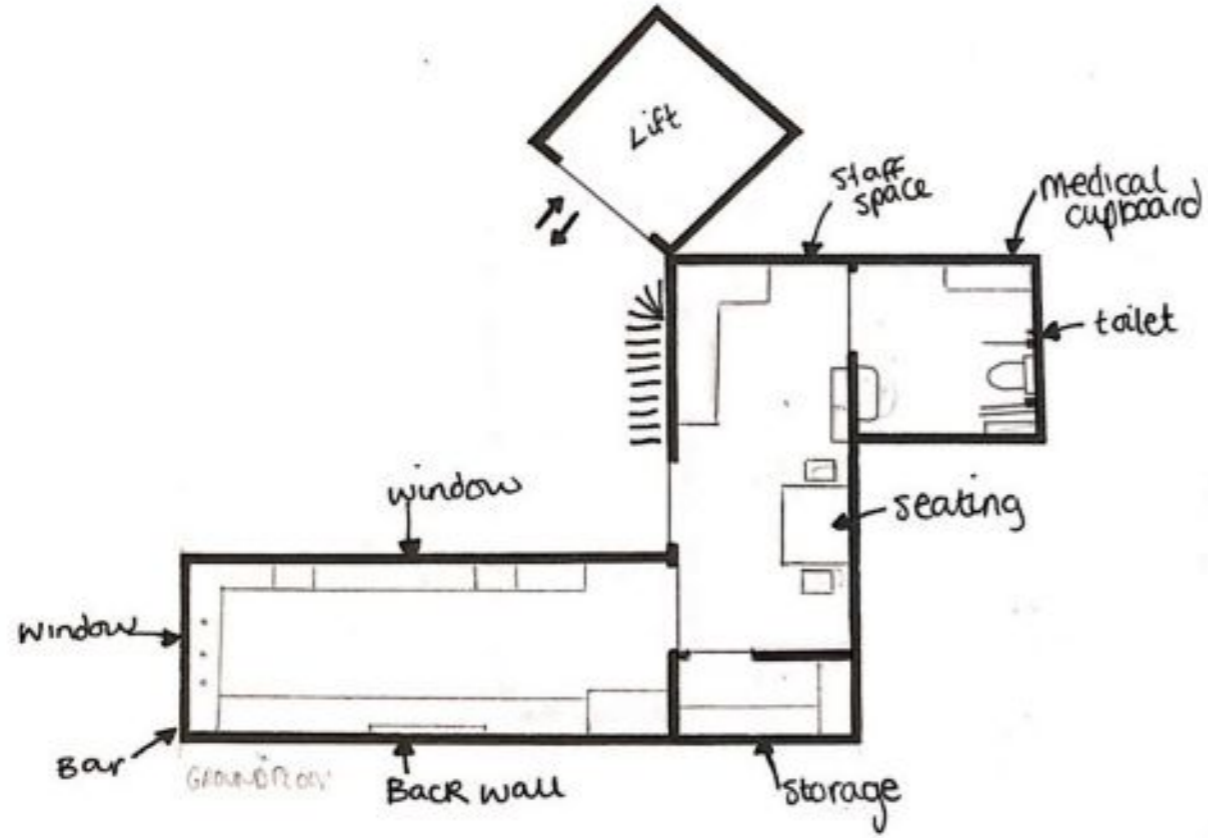
- Upswept roofs
- Cantilevered ceilings
- Glass as a design element
- Exposed steel beams



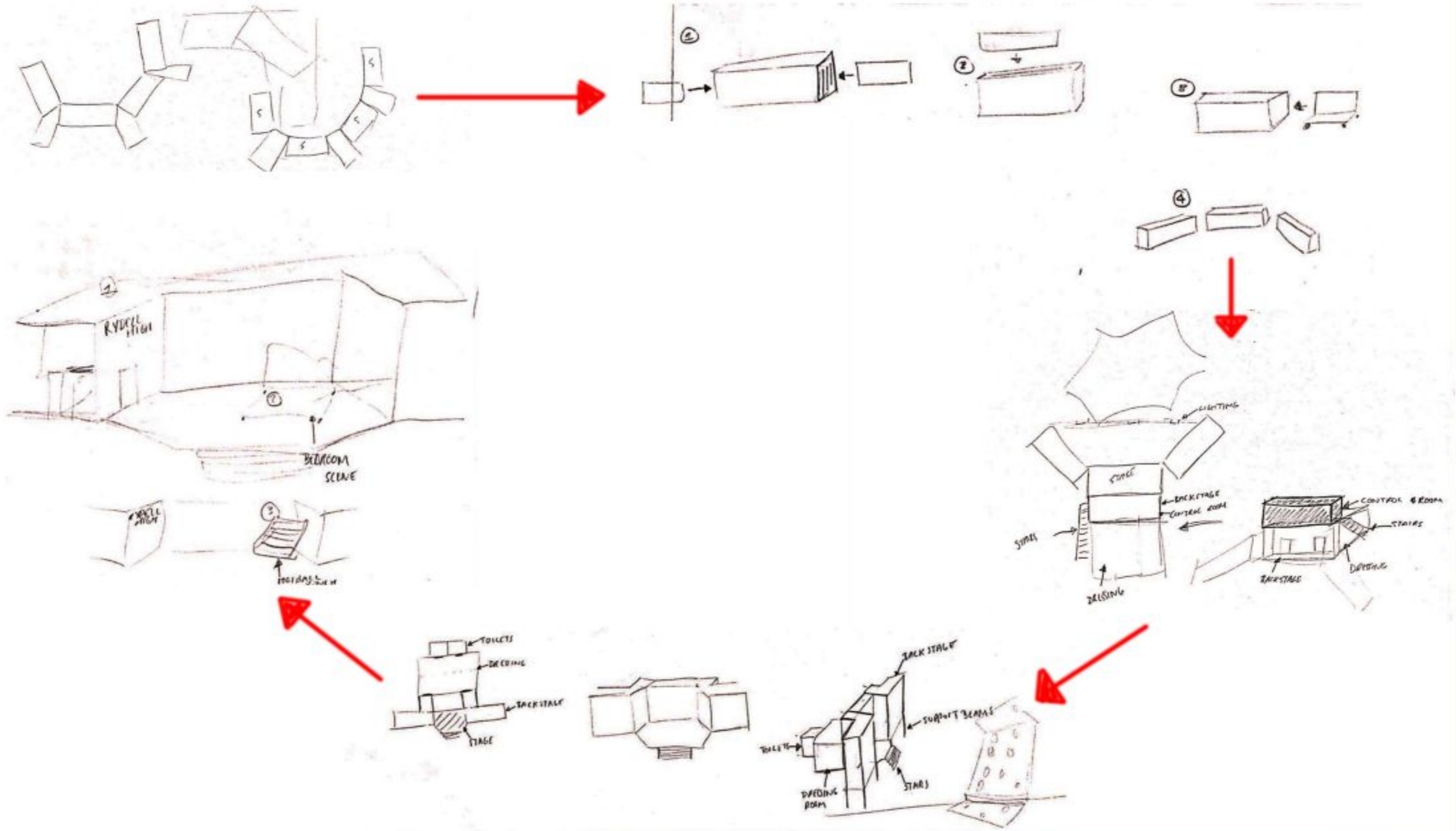
DESIGN DEVELOPMENT
REFRESHMENT & PROMOTION
 NOT TO SCALE



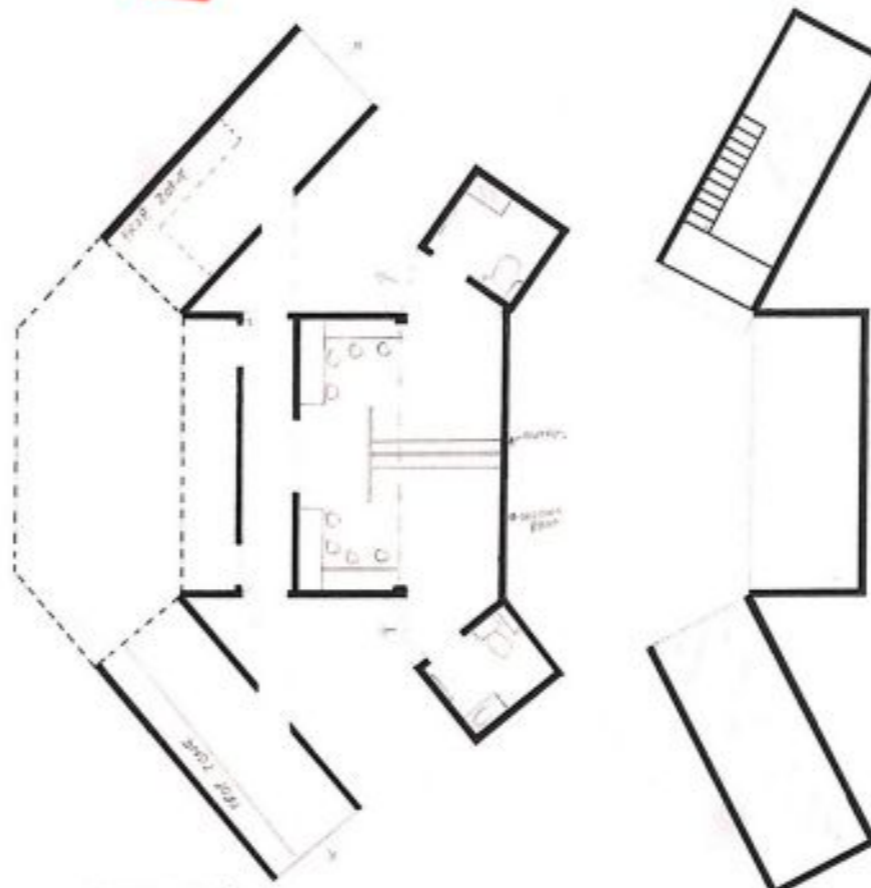
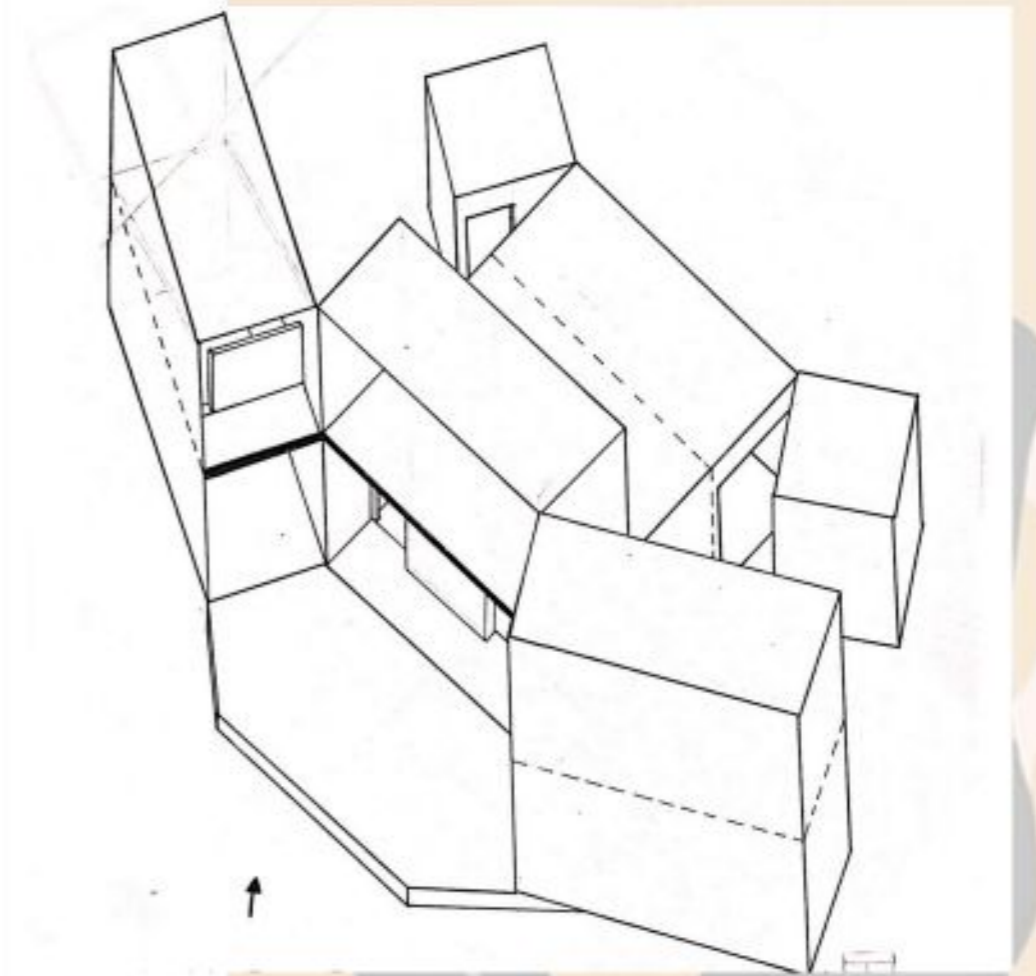
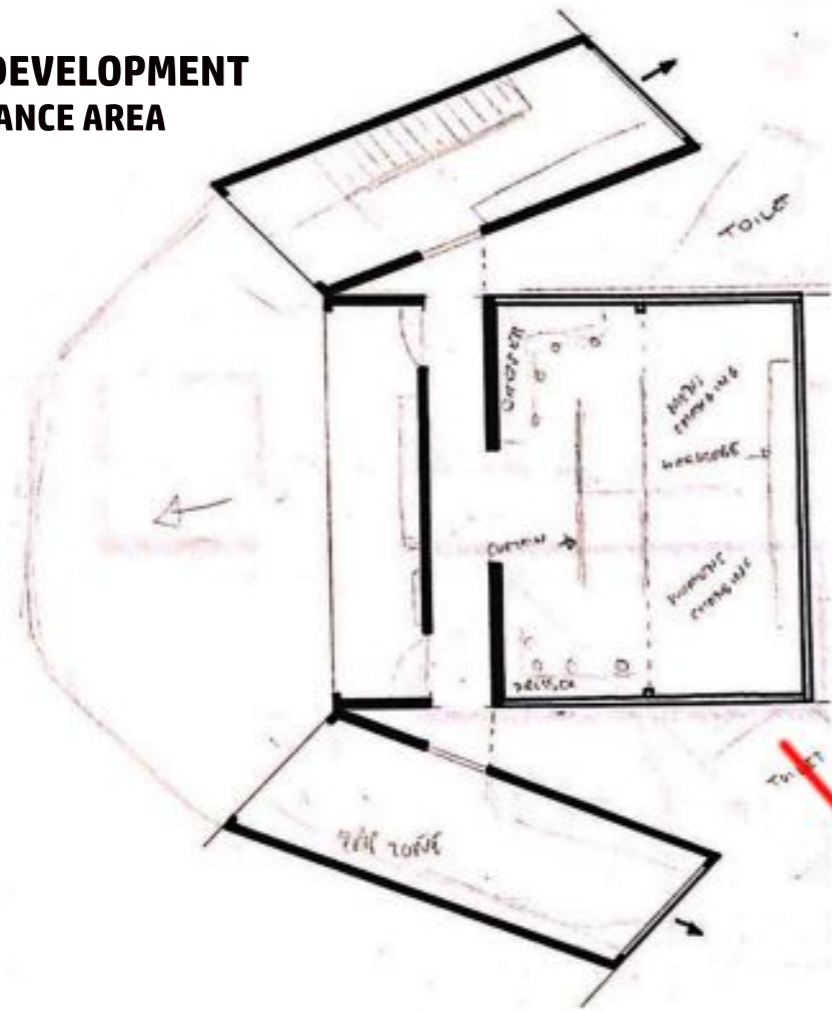
DESIGN DEVELOPMENT
REFRESHMENT & PROMOTION AREA
 NOT TO SCALE



DESIGN DEVELOPMENT
PERFORMANCE AREA
NOT TO SCALE



**DESIGN DEVELOPMENT
PERFORMANCE AREA**



GROUND FLOOR

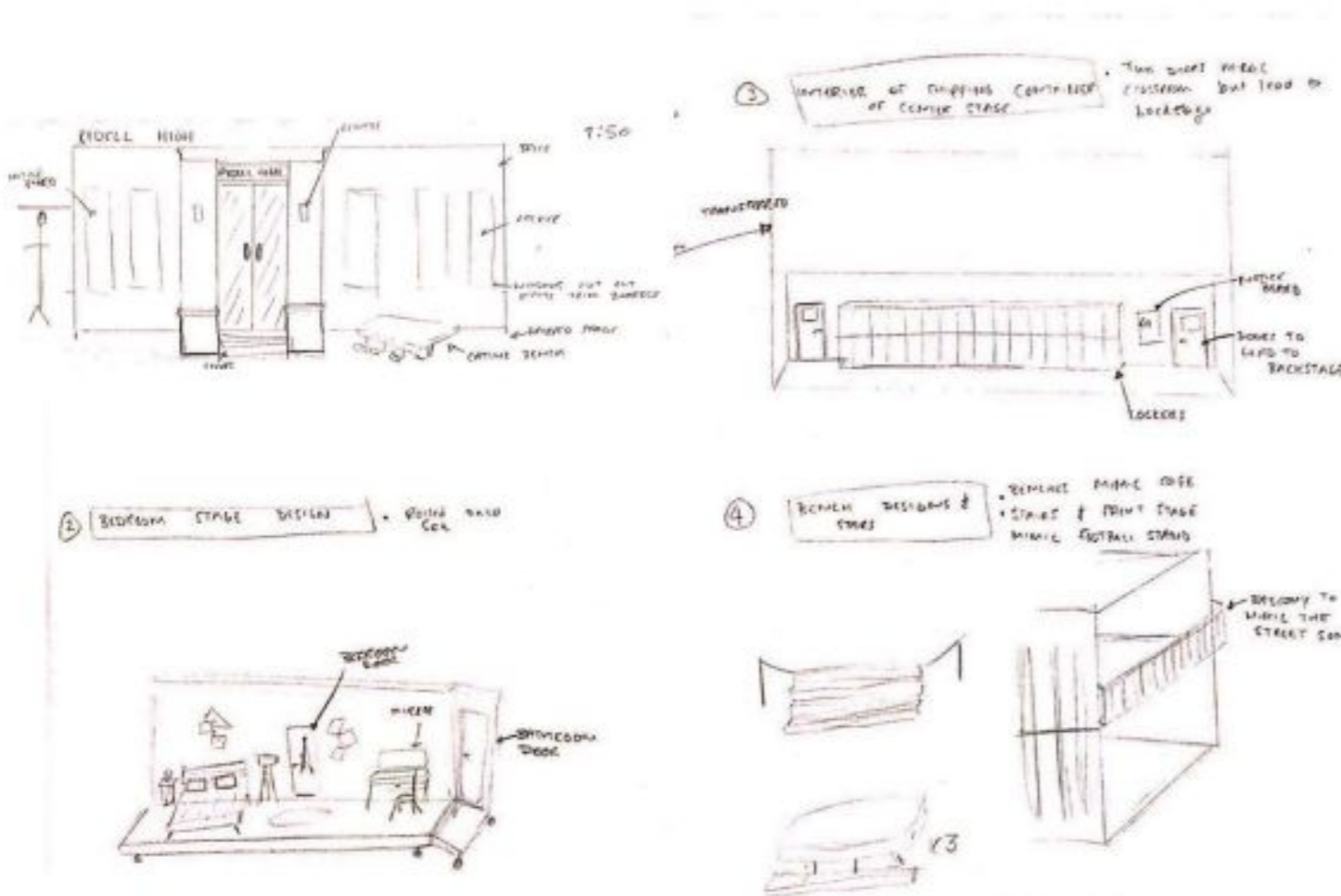
→ FIRE EXITS
 // LOOKING DOWN TO
 GROUND FLOOR

FIRST FLOOR

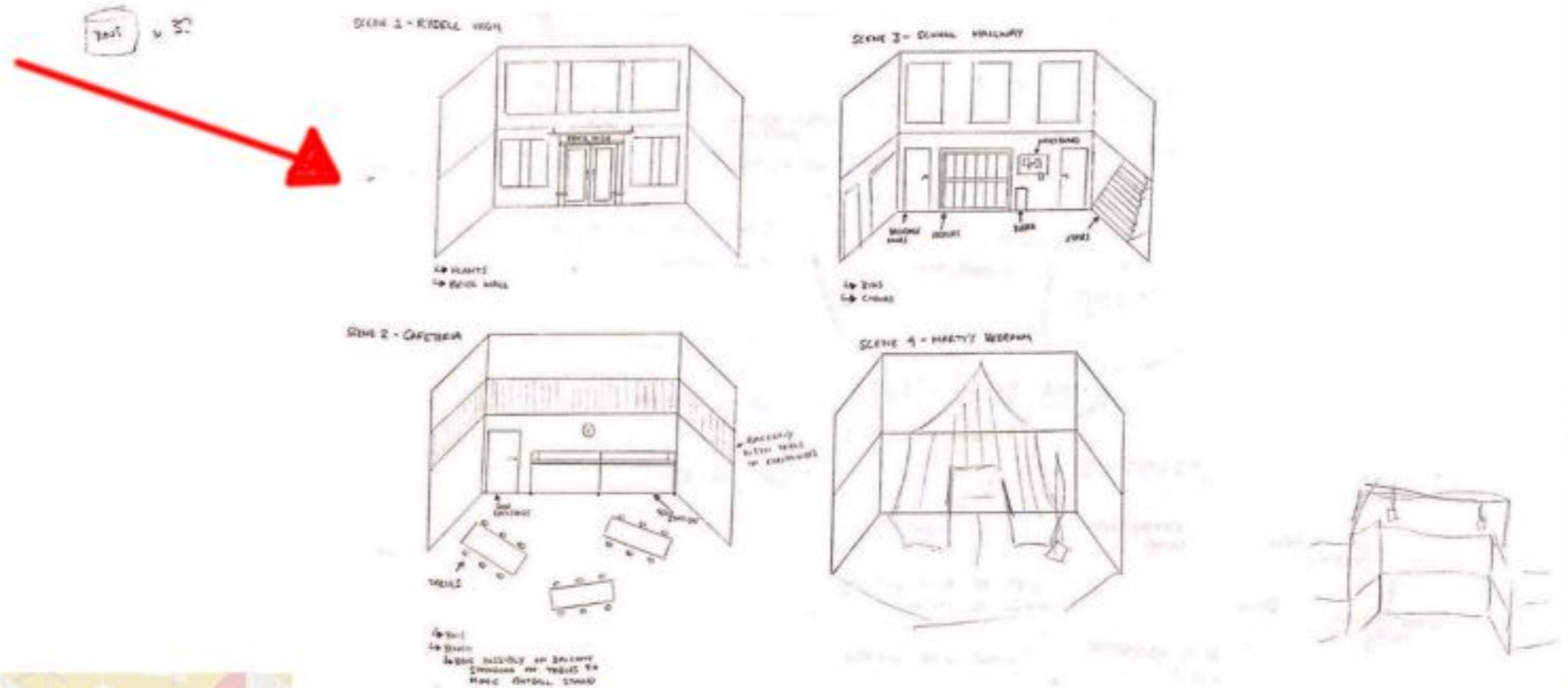
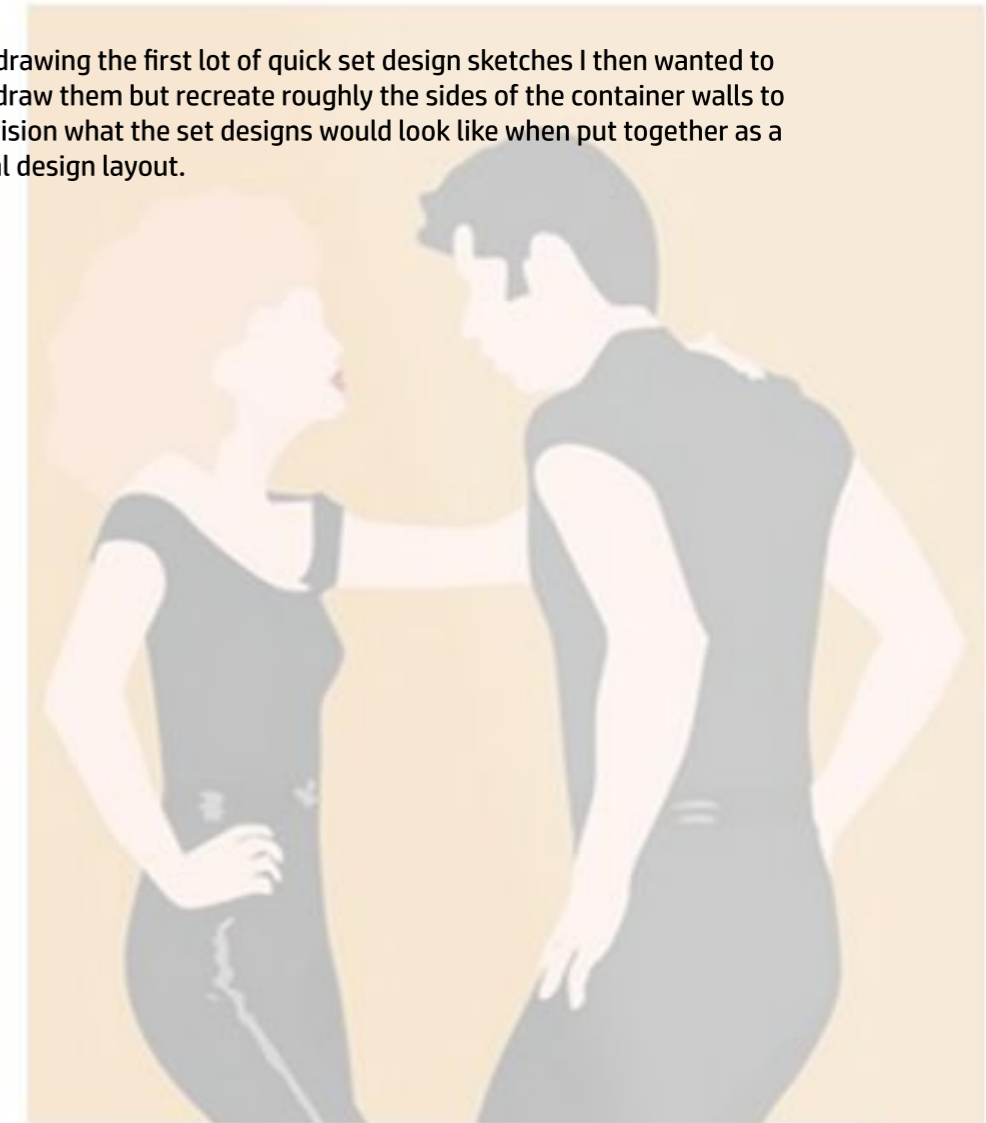


PERFORM
 "GREASE THE MUSICAL"
 REBECCA CHICK

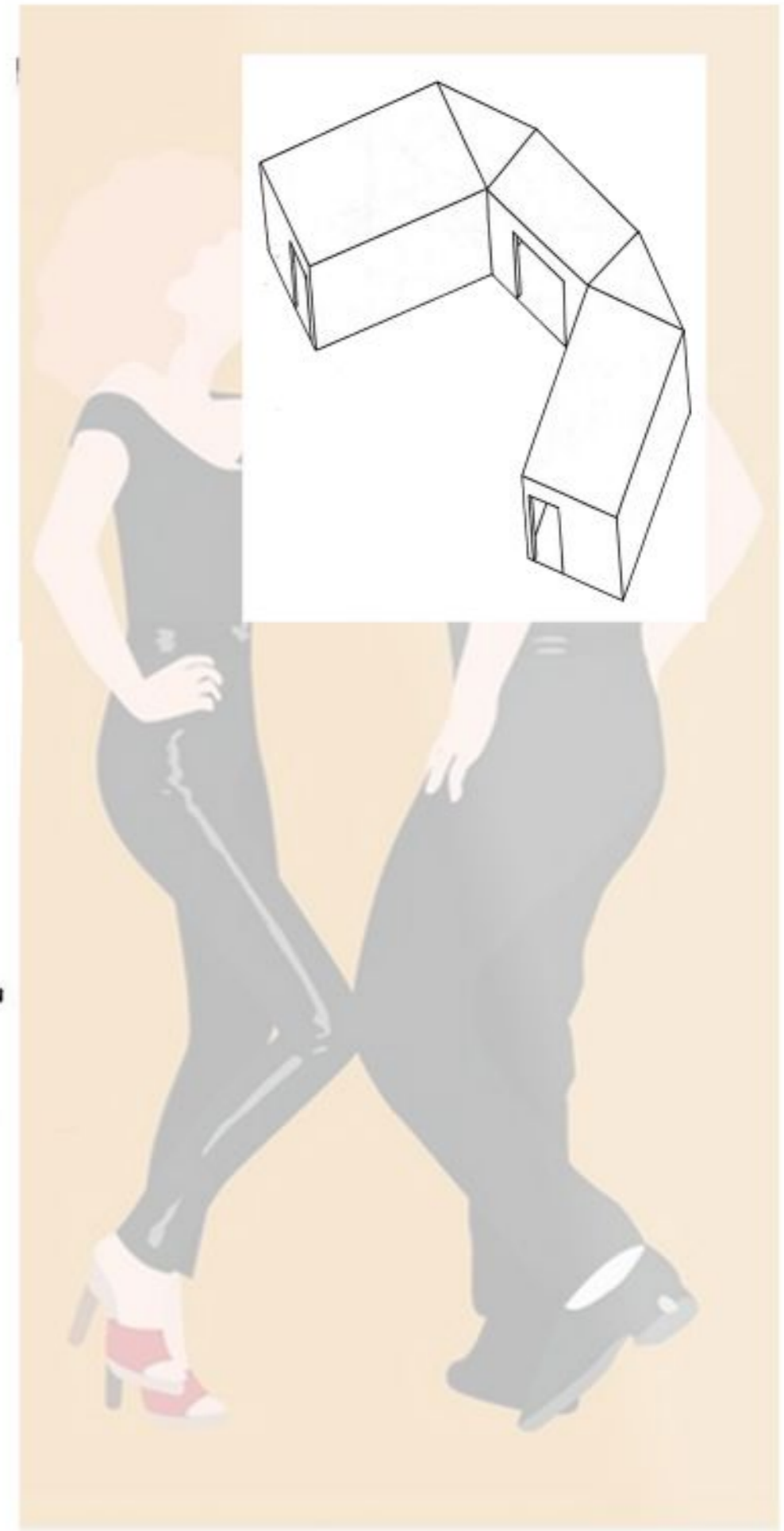
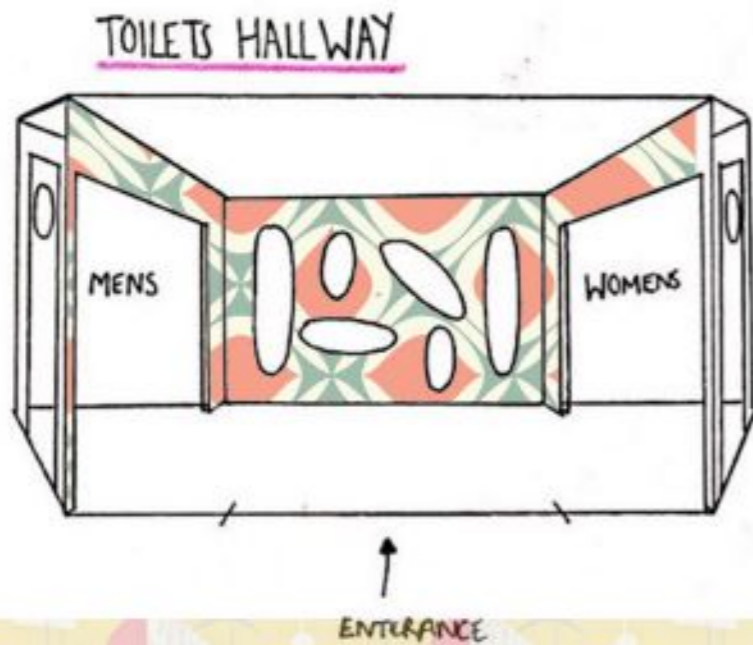
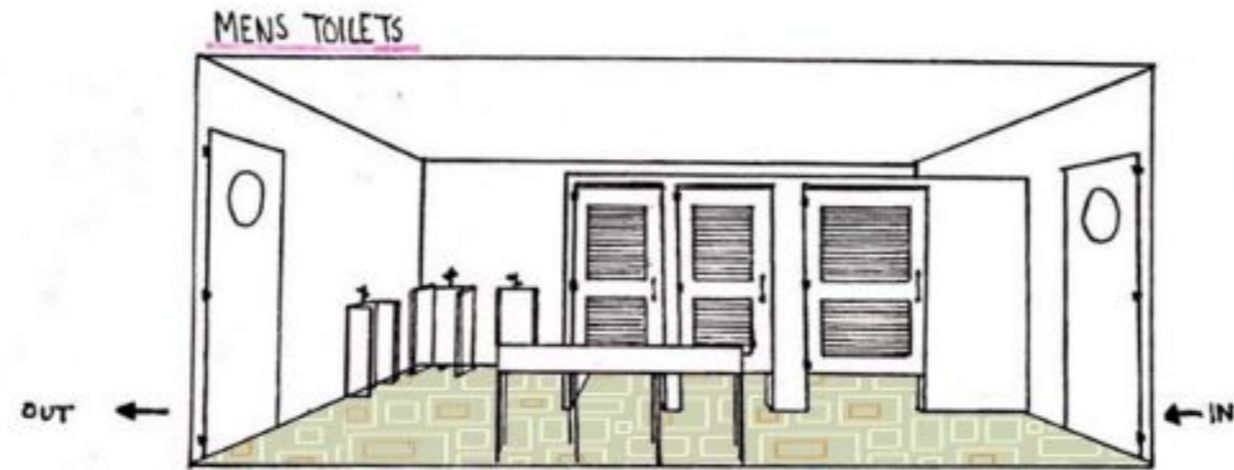
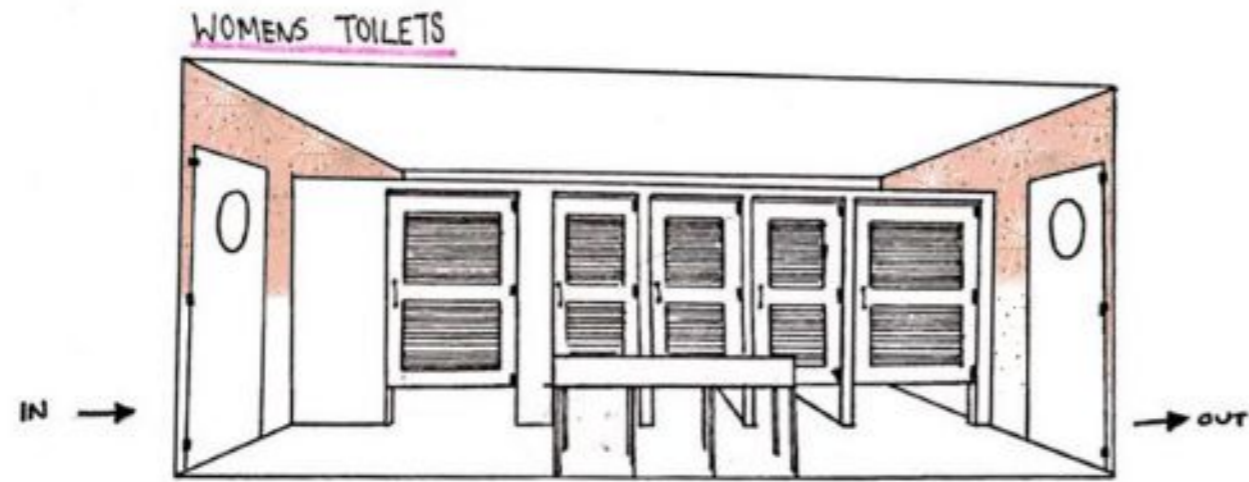
DESIGN DEVELOPMENT
SET DESIGN
NOT TO SCALE



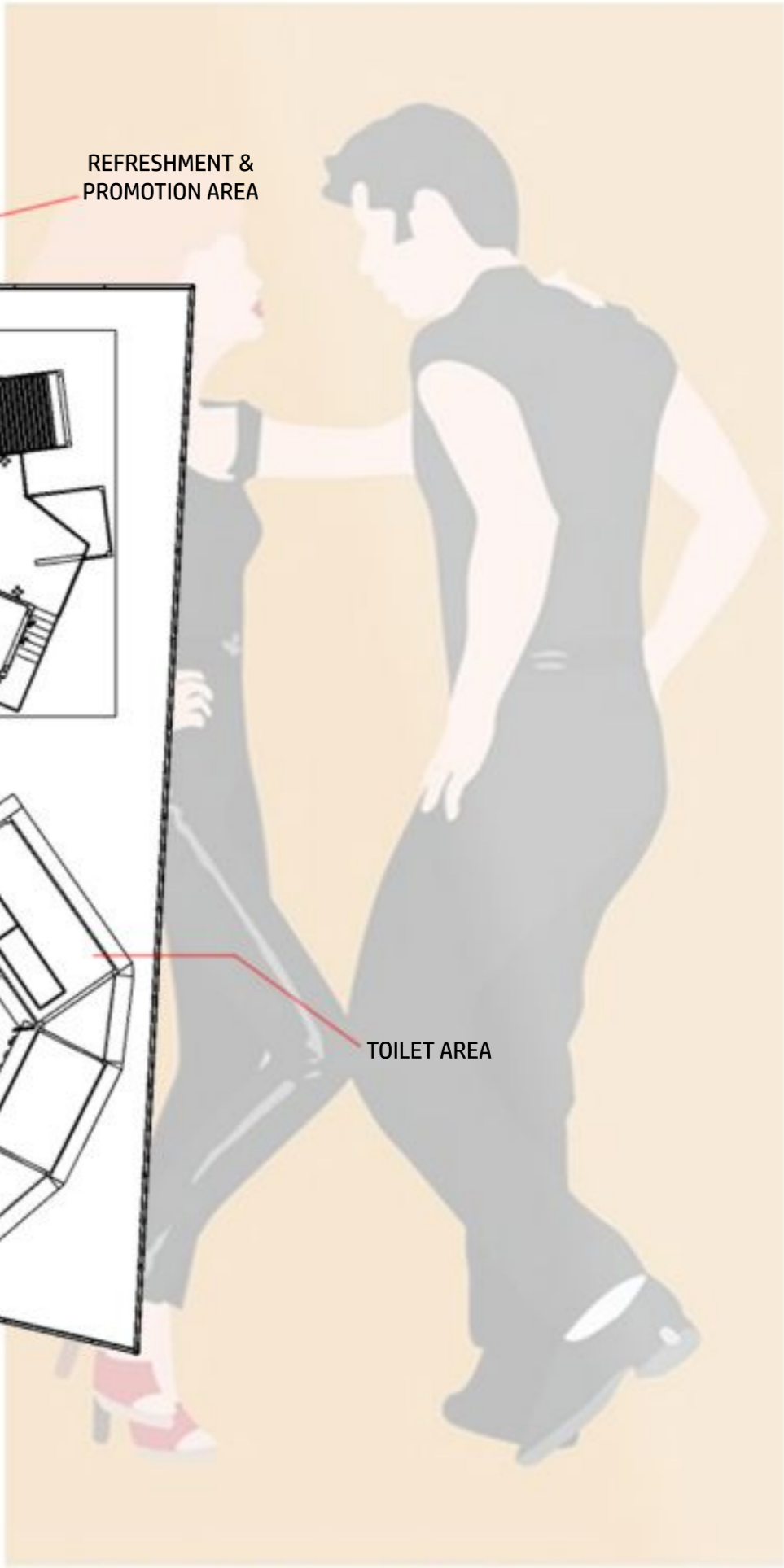
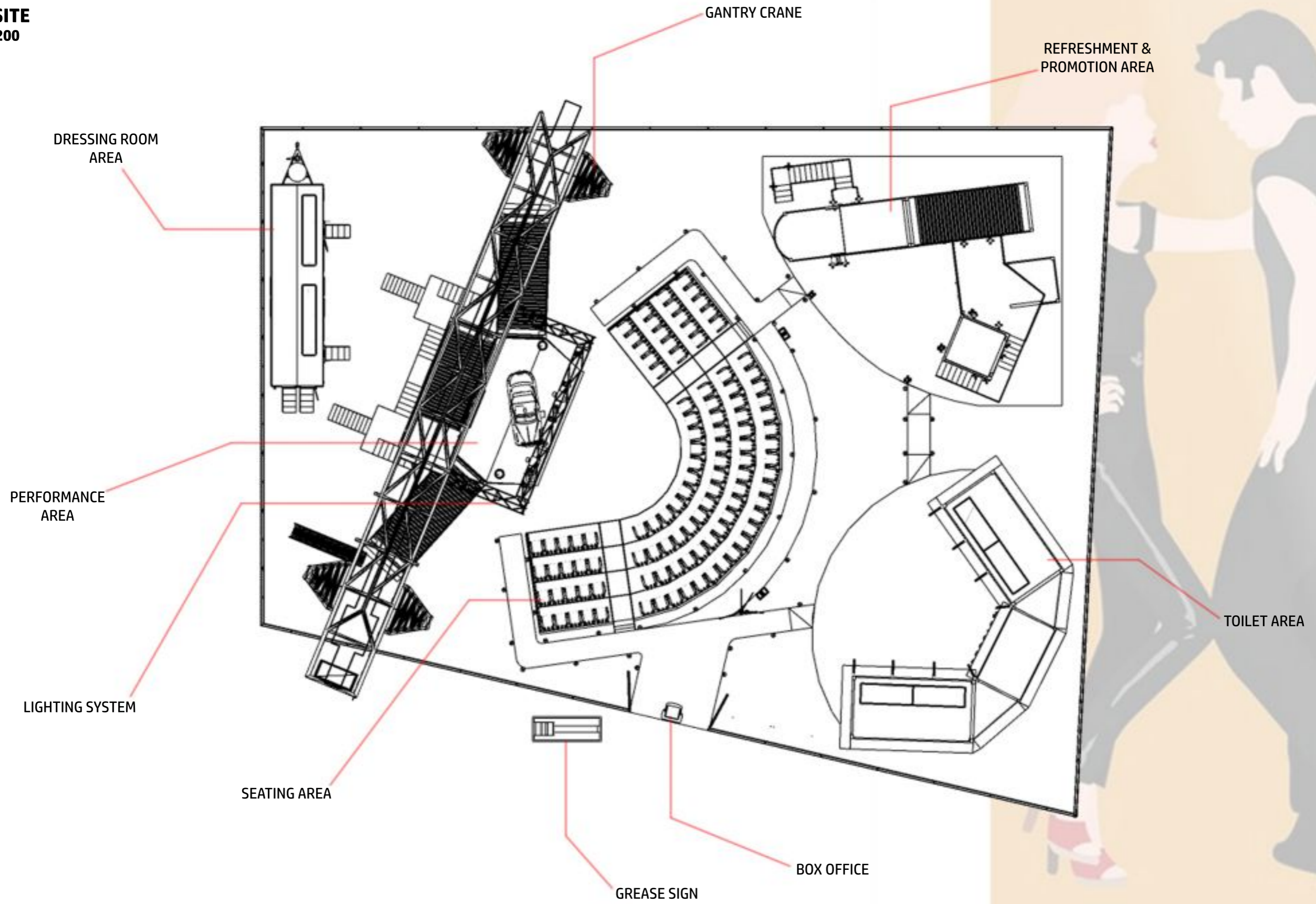
By drawing the first lot of quick set design sketches I then wanted to re-draw them but recreate roughly the sides of the container walls to envision what the set designs would look like when put together as a final design layout.



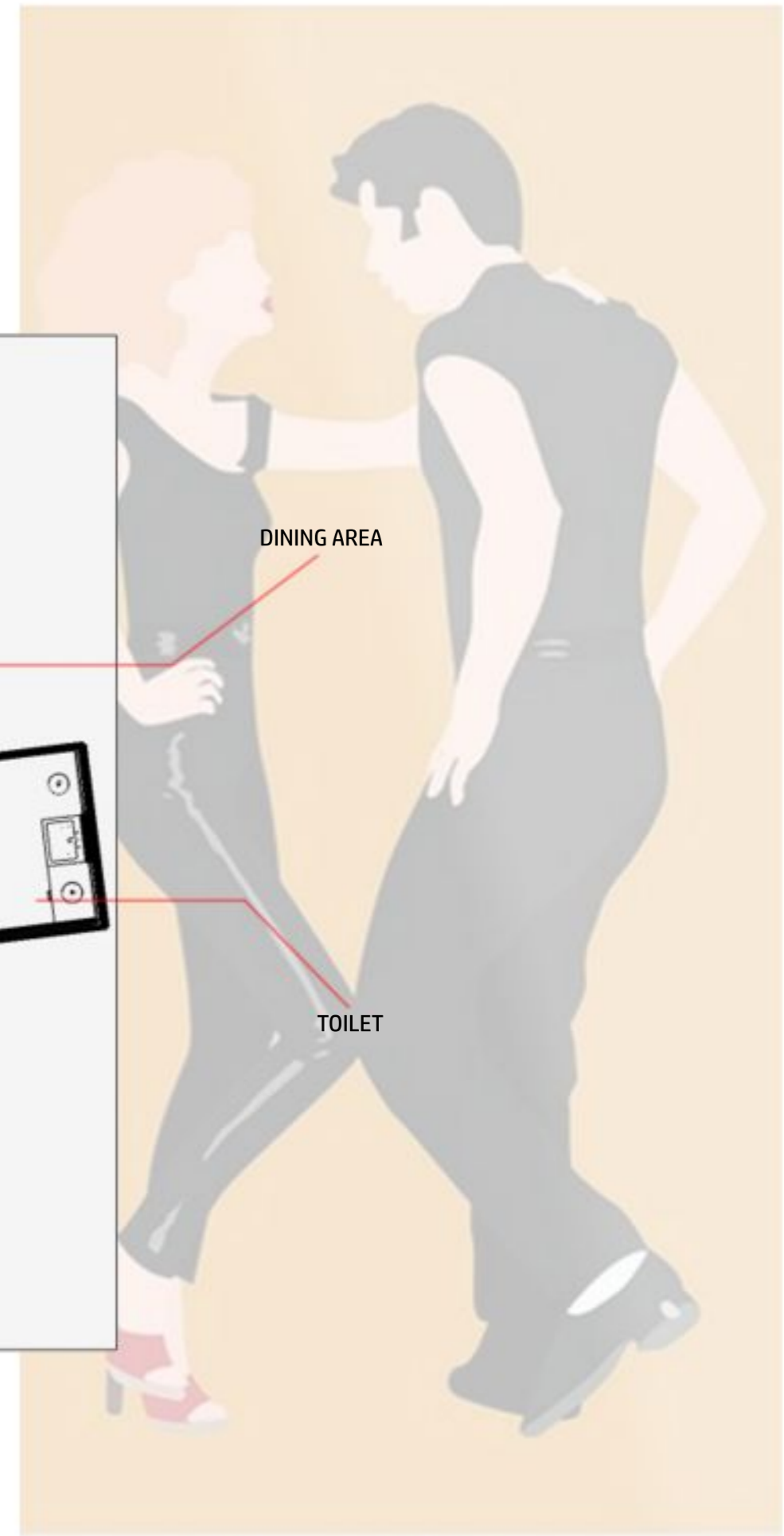
DESIGN DEVELOPMENT
TOILET AREA
SCALED 1.10



PLAN
WHOLE SITE
SCALED 1:200

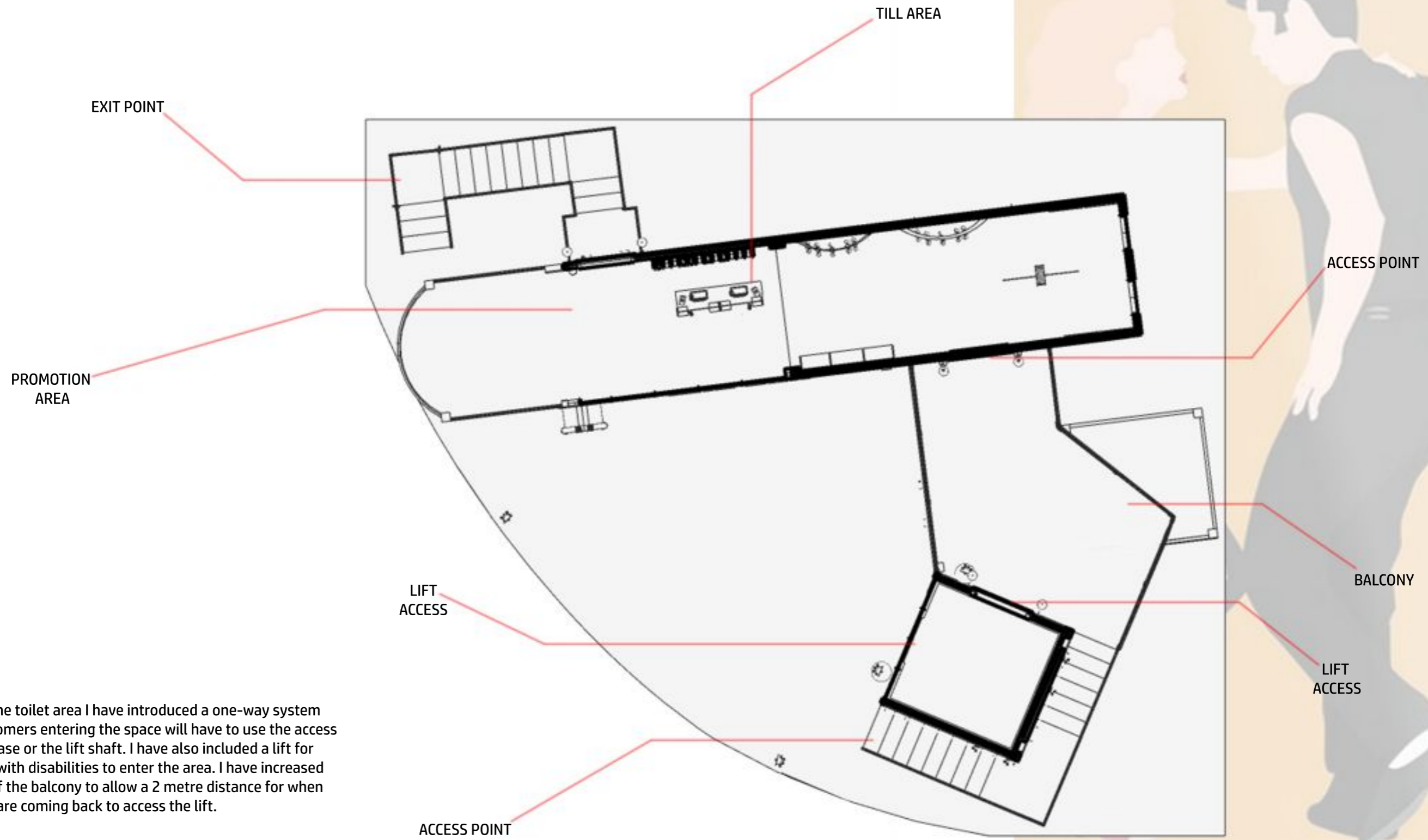


PLAN
REFRESHMENTS AREA
SCALED 1:200



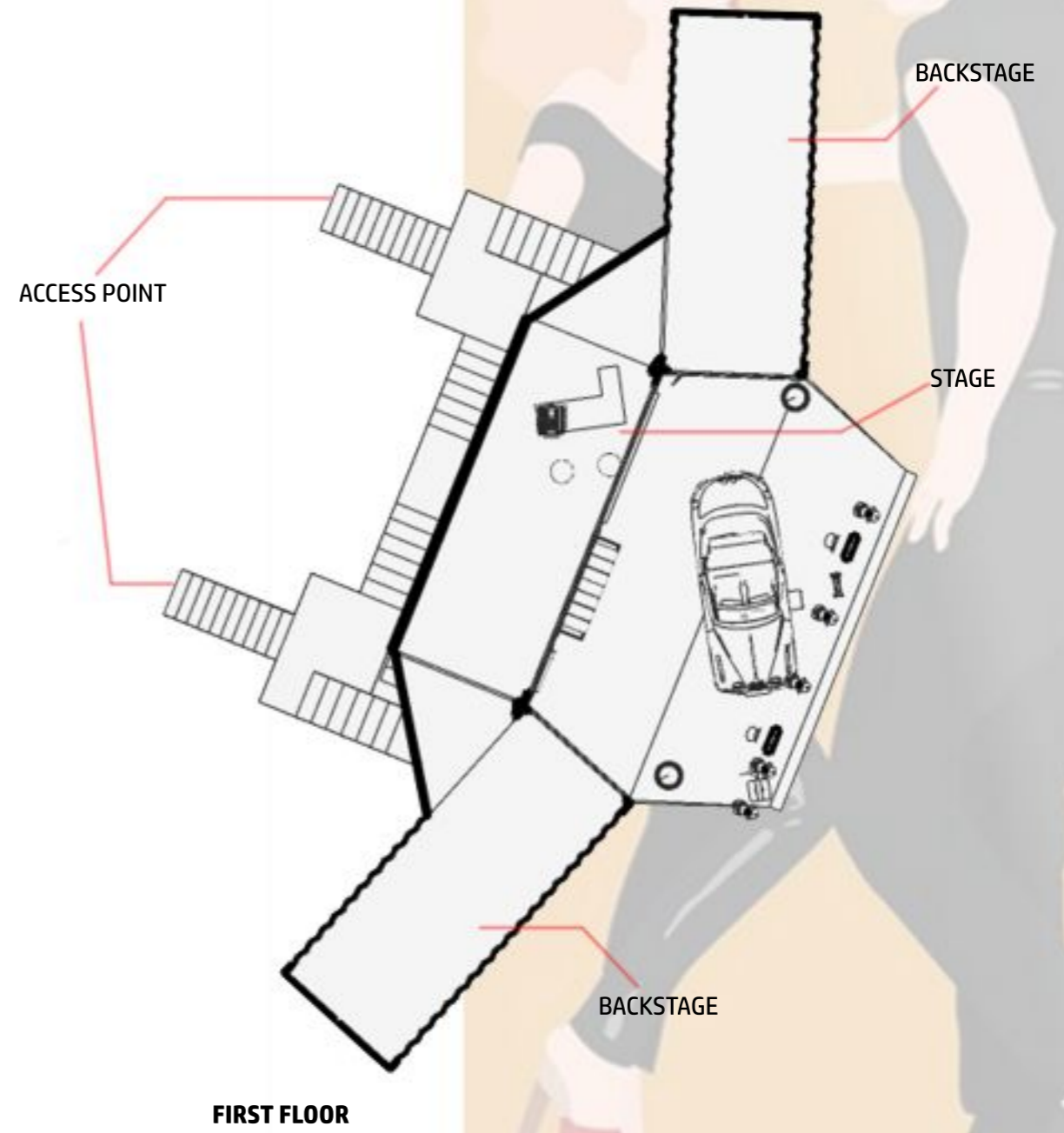
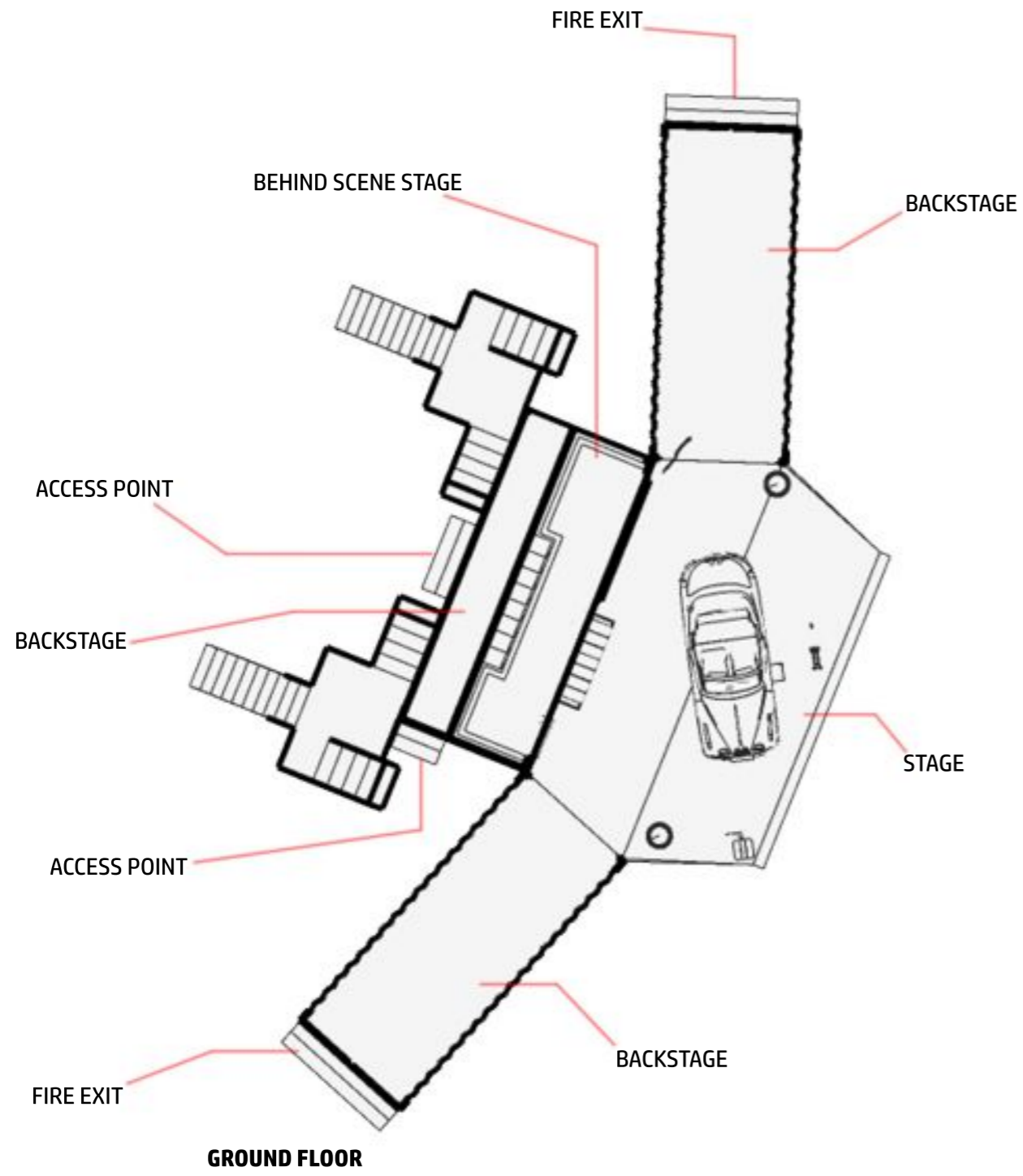
When looking at the Refreshment layout I have swapped out the staff room to become a dining area for the customers to use. However due to COVID-19 this area will not be used at this current time due to it not being able to maintain the required 2 metre distance in order to follow government guidelines.

PLAN
PROMOTION AREA
SCALED 1:200

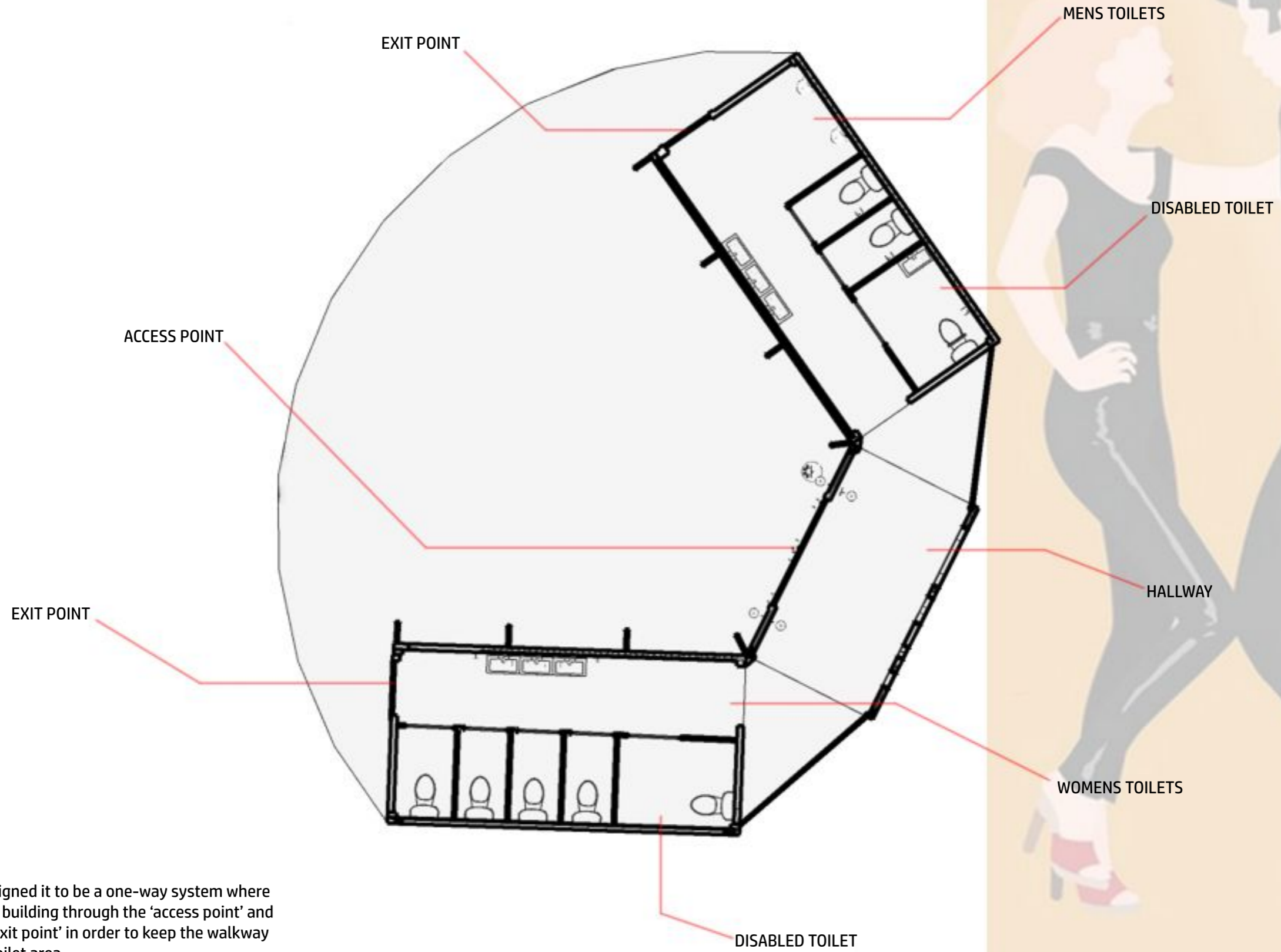


Similar to the toilet area I have introduced a one-way system where customers entering the space will have to use the access point staircase or the lift shaft. I have also included a lift for customers with disabilities to enter the area. I have increased the width of the balcony to allow a 2 metre distance for when customers are coming back to access the lift.

PLAN
STAGE AREA
SCALED 1:200

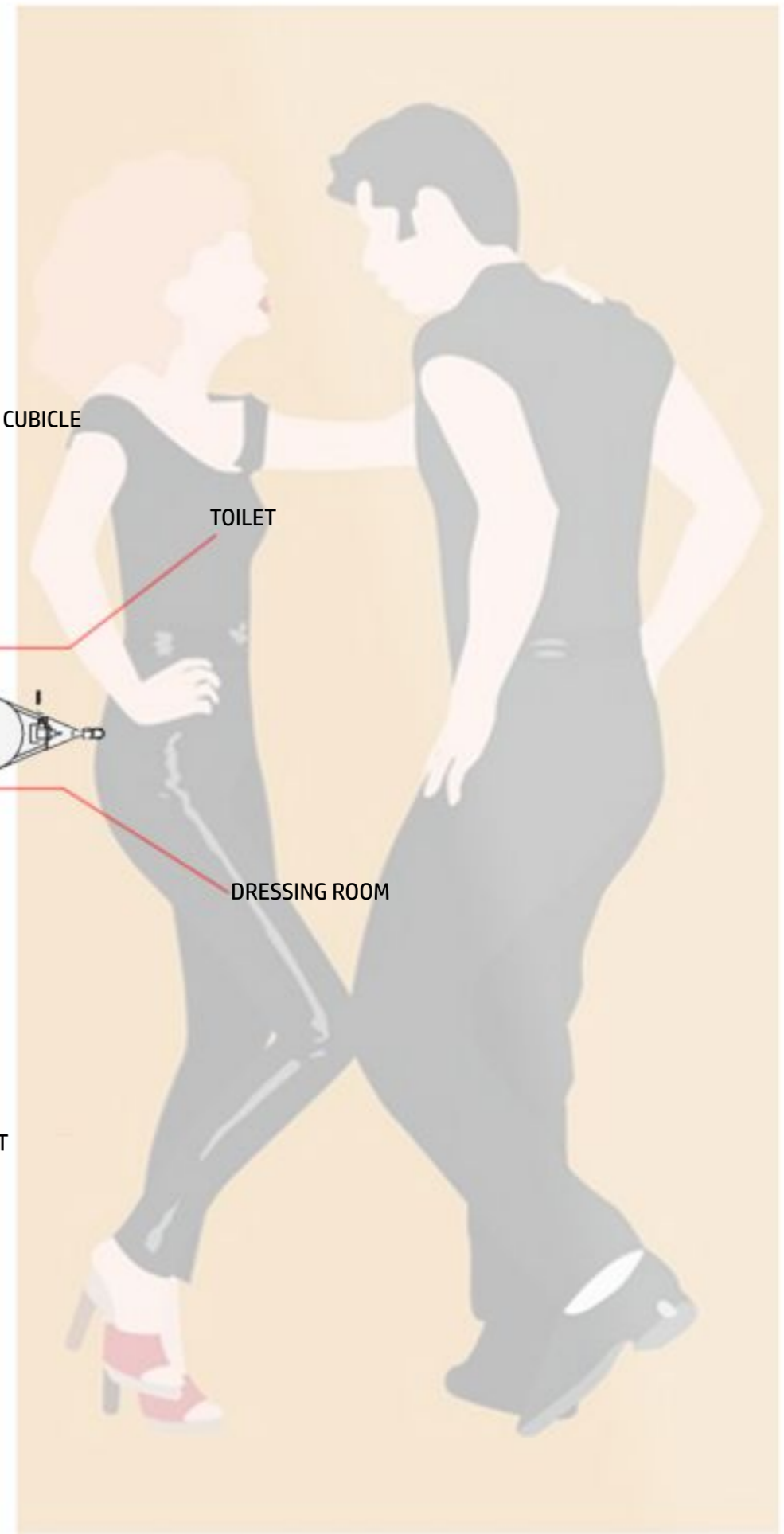
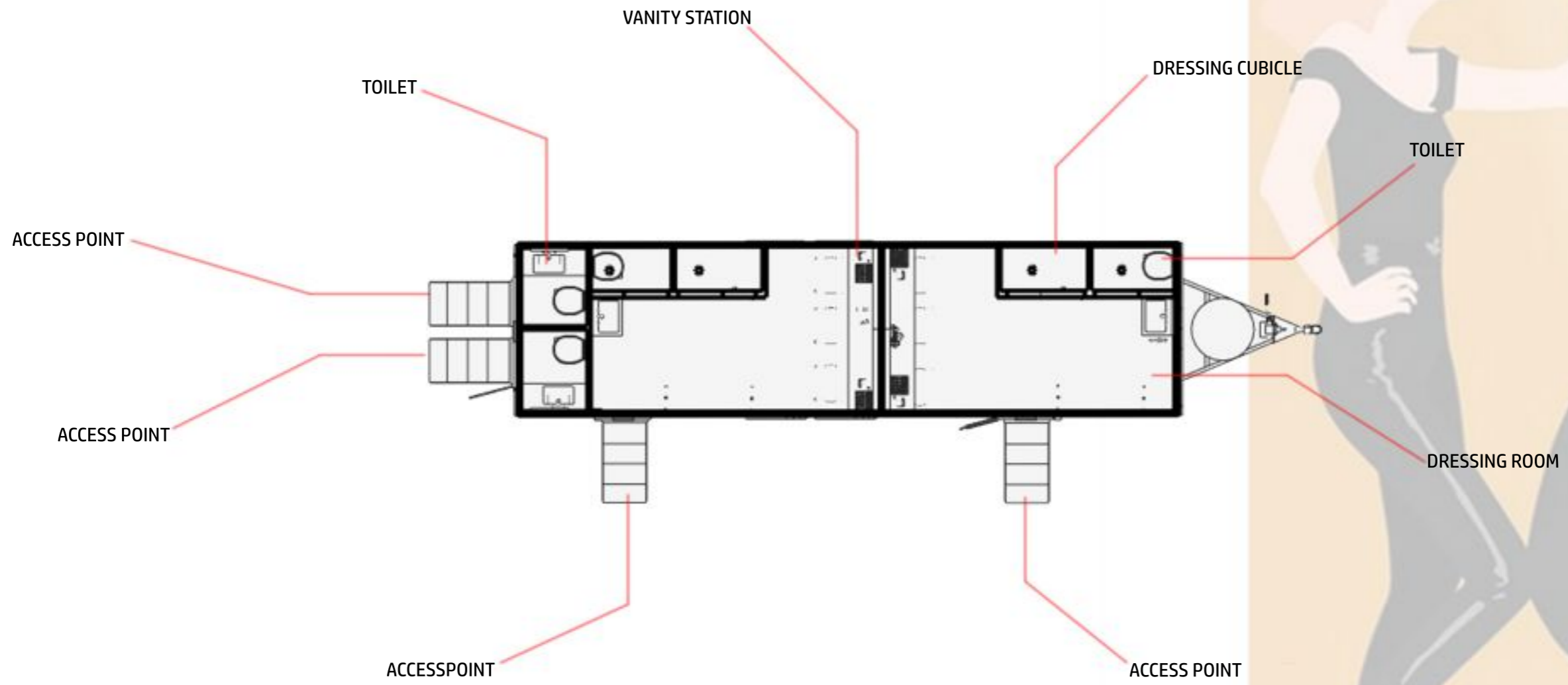


PLAN
TOILET AREA
SCALED 1:200

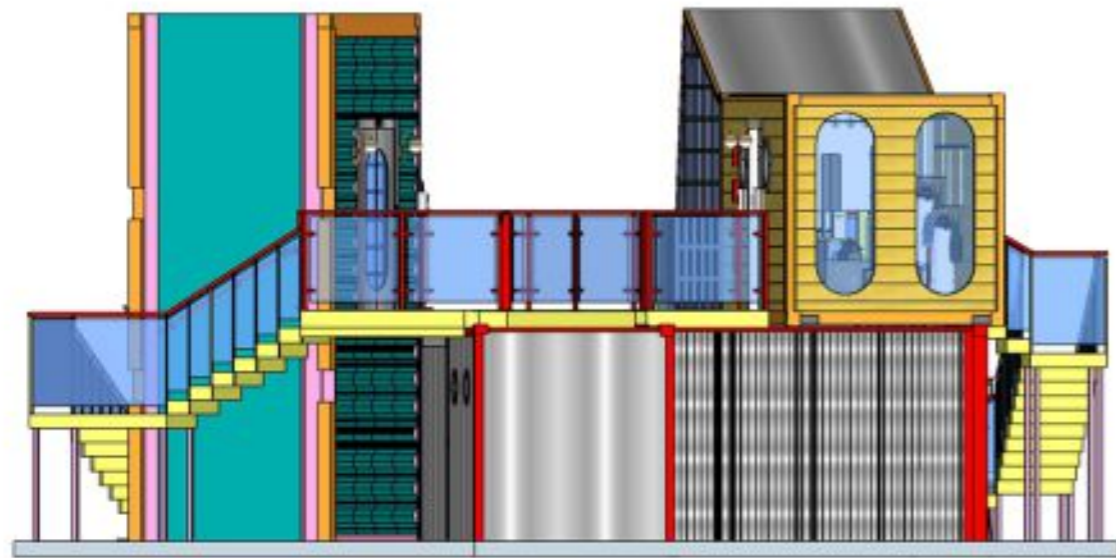


For the toilet layout I have designed it to be a one-way system where customers can only access the building through the 'access point' and they must leave through the 'exit point' in order to keep the walkway clear for people entering the toilet area.

PLAN
DRESSING ROOM AREA
SCALED 1:200



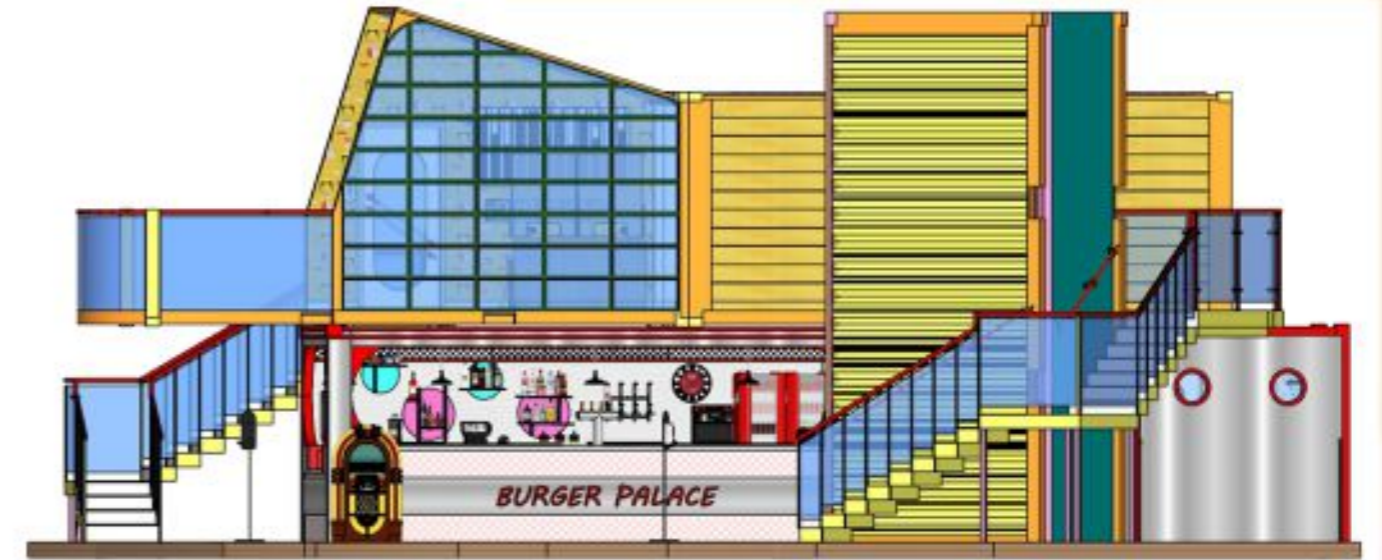
ELEVATIONS
REFRESHMENT & PROMOTION AREA
SCALED 1:200



RIGHT ELEVATION



LEFT ELEVATION



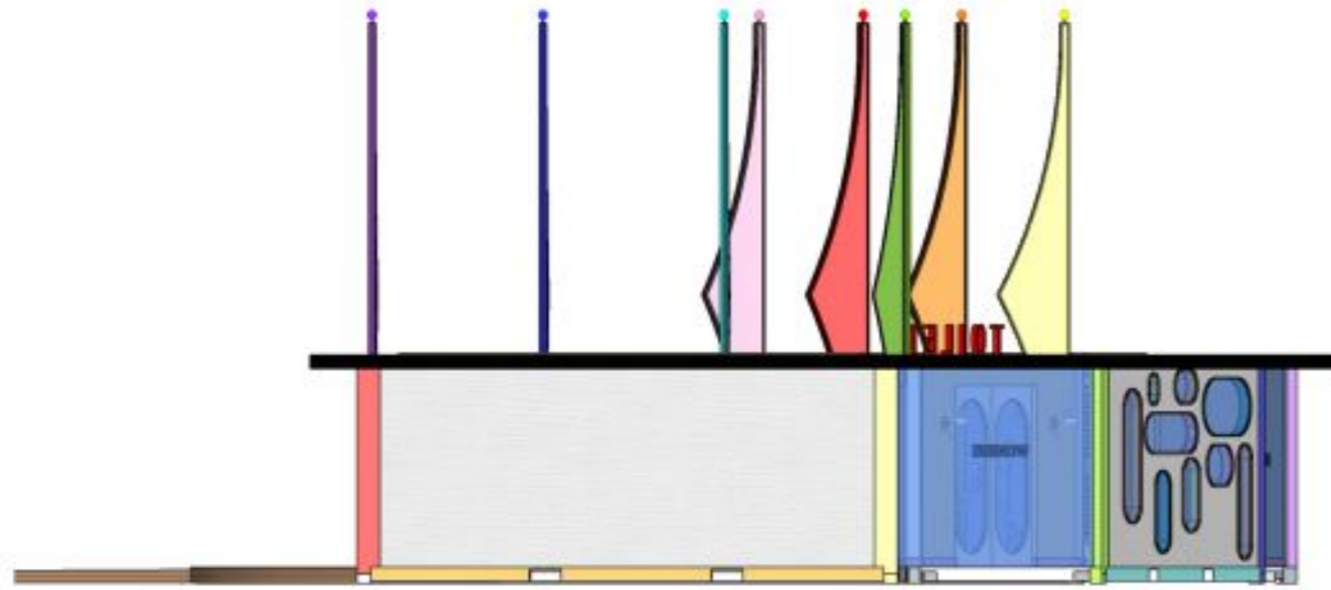
FRONT ELEVATION



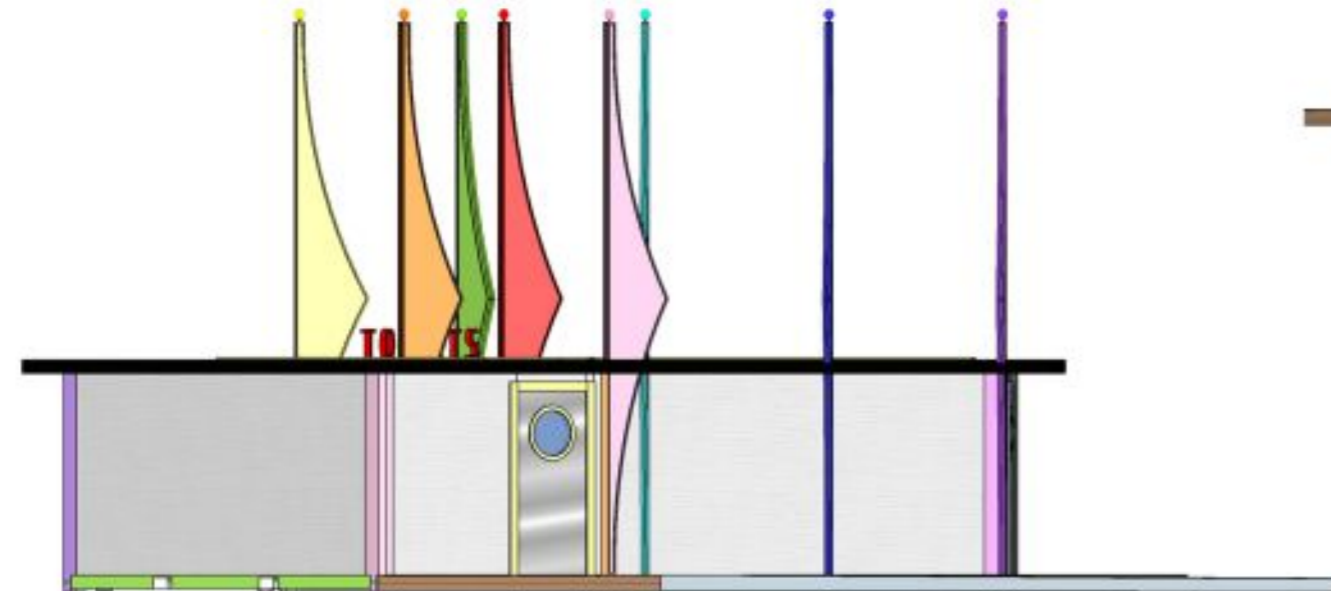
BACK ELEVATION



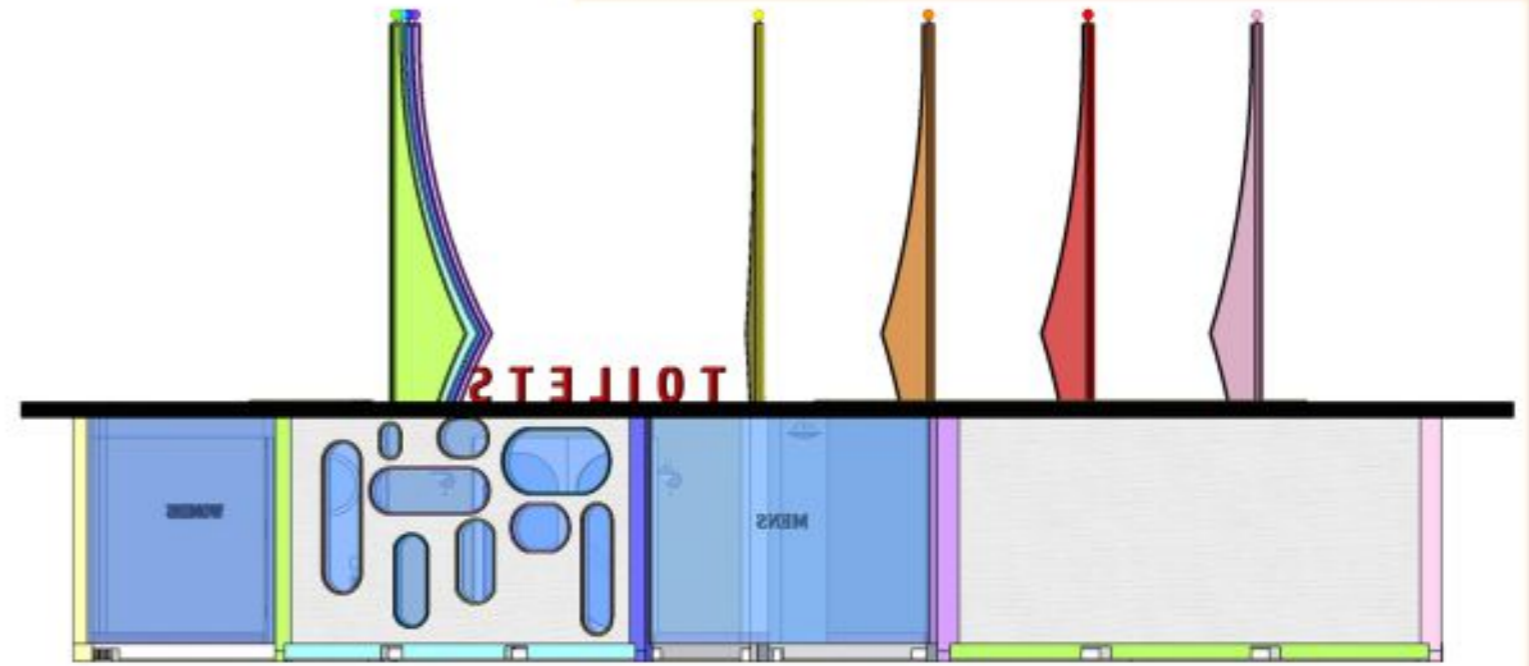
**ELEVATIONS
TOILET AREA
SCALED 1:200**



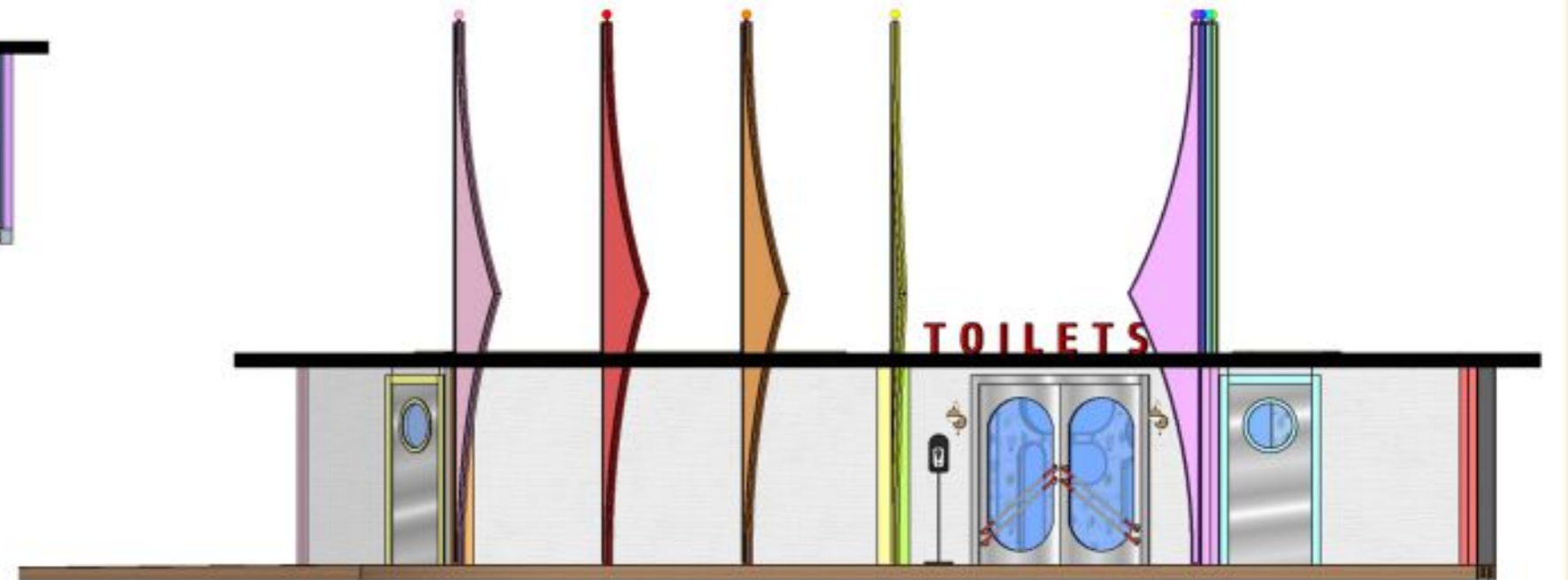
FRONT ELEVATION



BACK ELEVATION



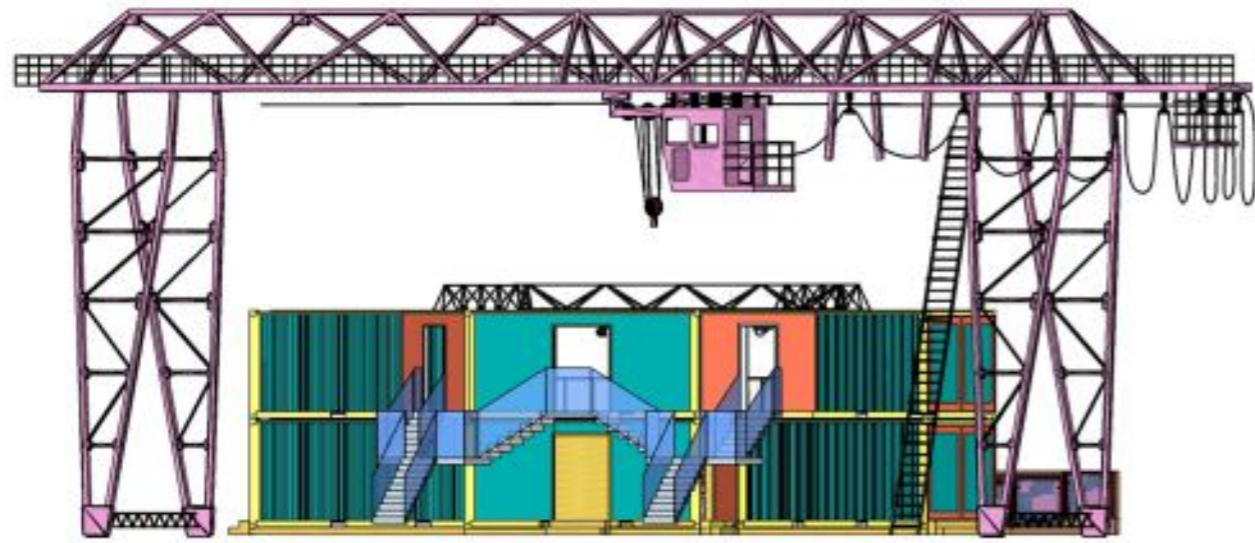
RIGHT ELEVATION



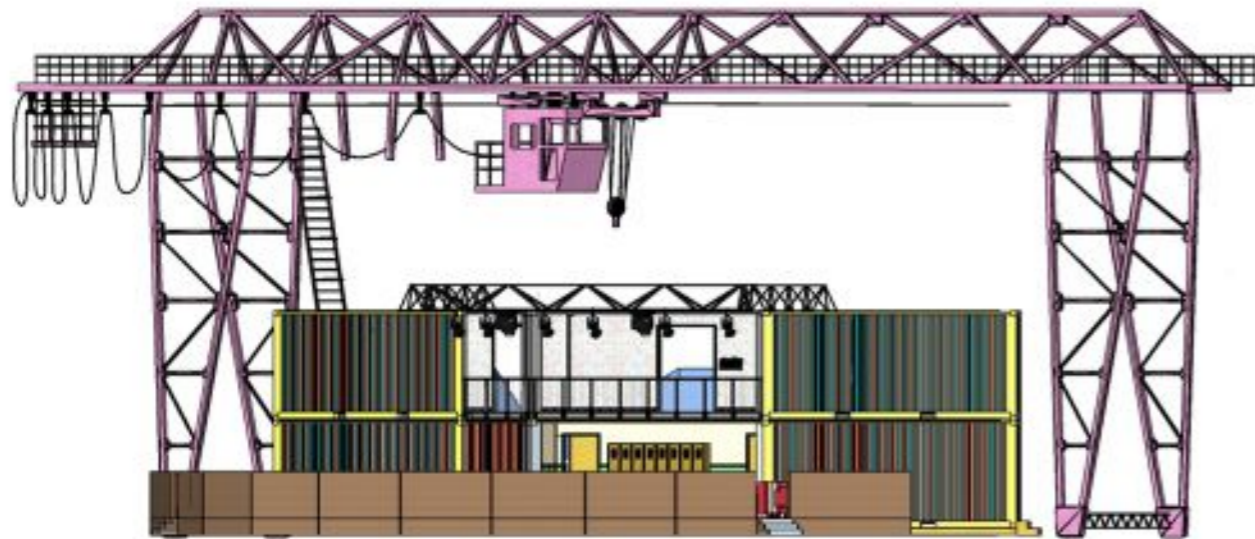
LEFT ELEVATION



ELEVATIONS
PERFORMANCE AREA
SCALED 1:200



LEFT ELEVATION



RIGHT ELEVATION



BACK ELEVATION



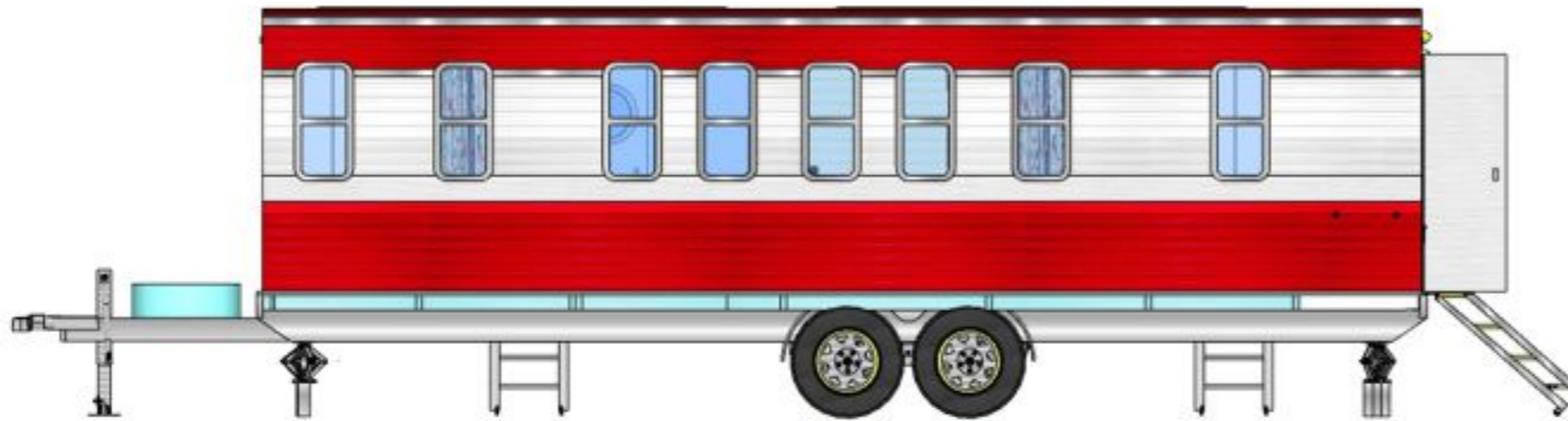
FRONT ELEVATION

PERFORM
"GREASE THE MUSICAL"
REBECCA CHICK

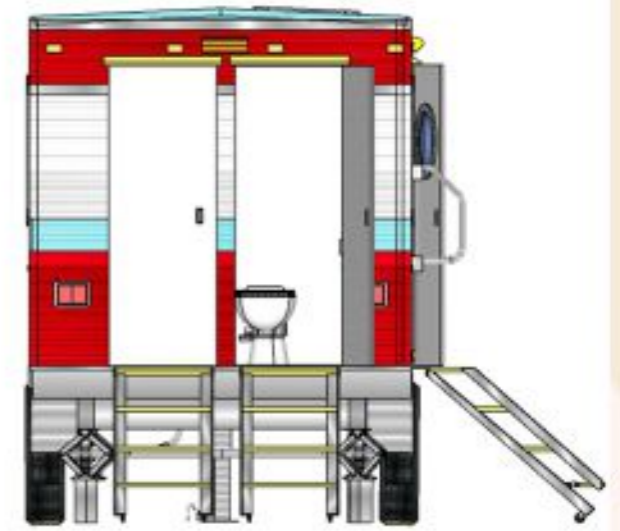
ELEVATIONS
DRESSING ROOM AREA
SCALED 1.200



RIGHT ELEVATION



LEFT ELEVATION



FRONT ELEVATION

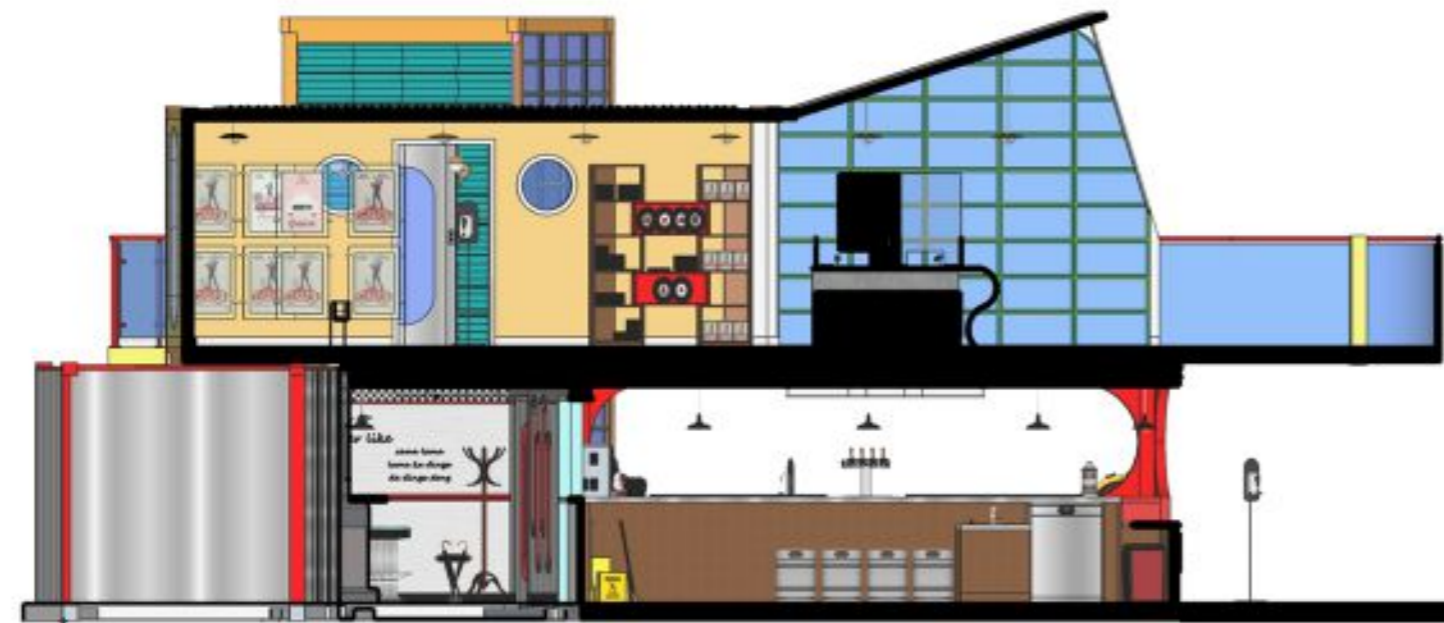


BACK ELEVATION

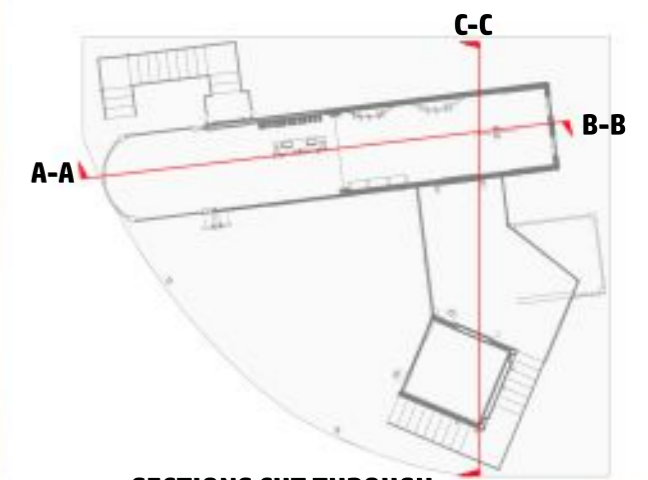
SECTIONS
REFRESHMENT & PROMOTION AREA
SCALED 1:200



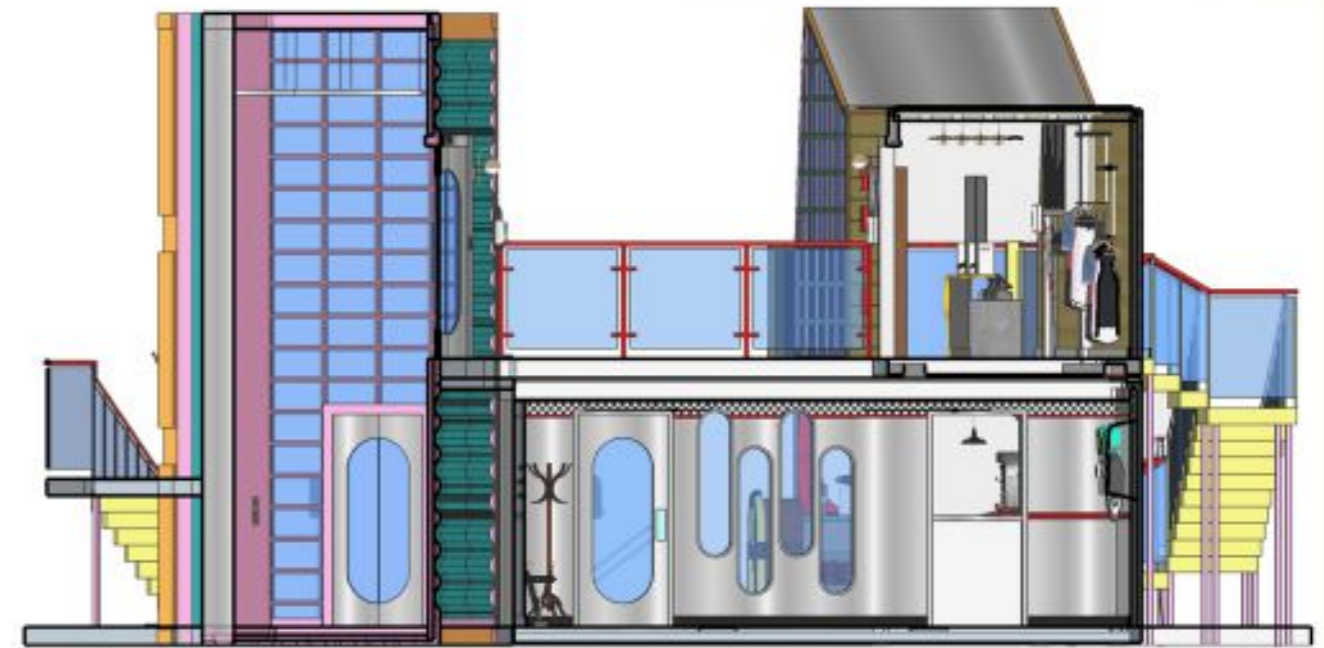
SECTION A-A



SECTION B-B

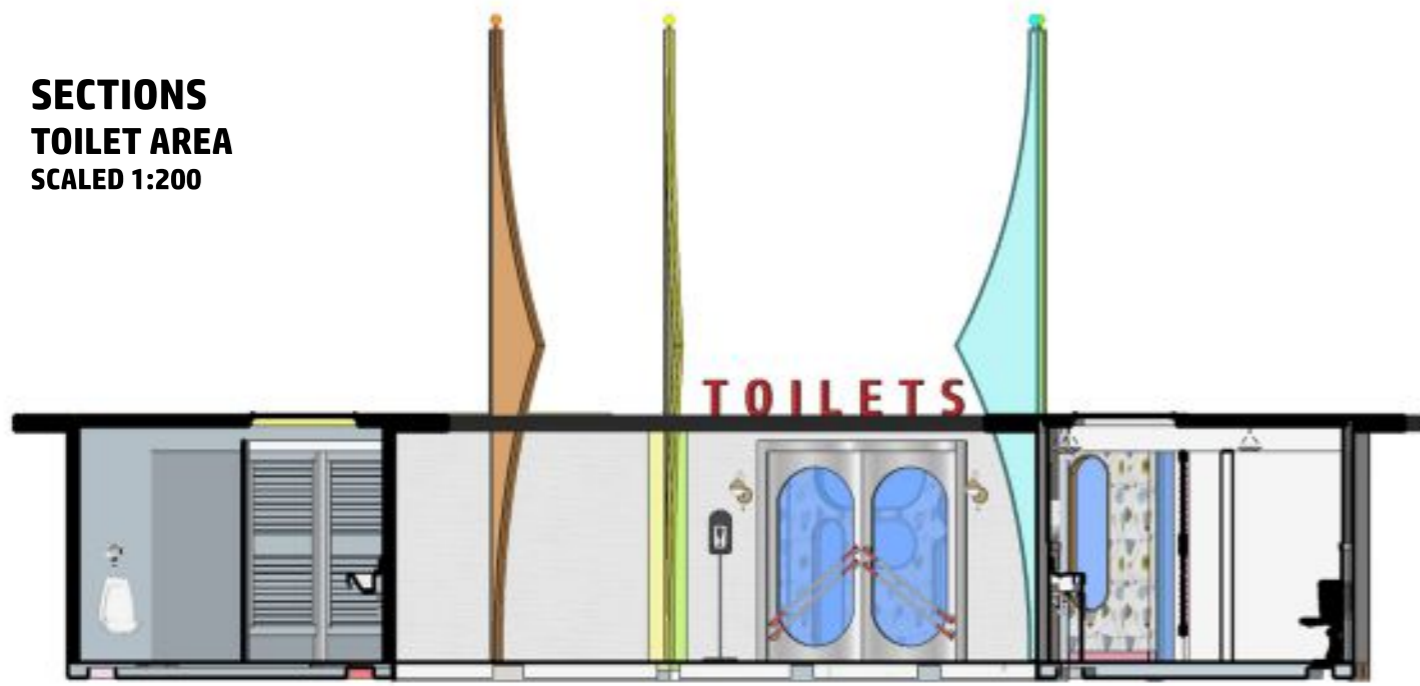


SECTIONS CUT THROUGH

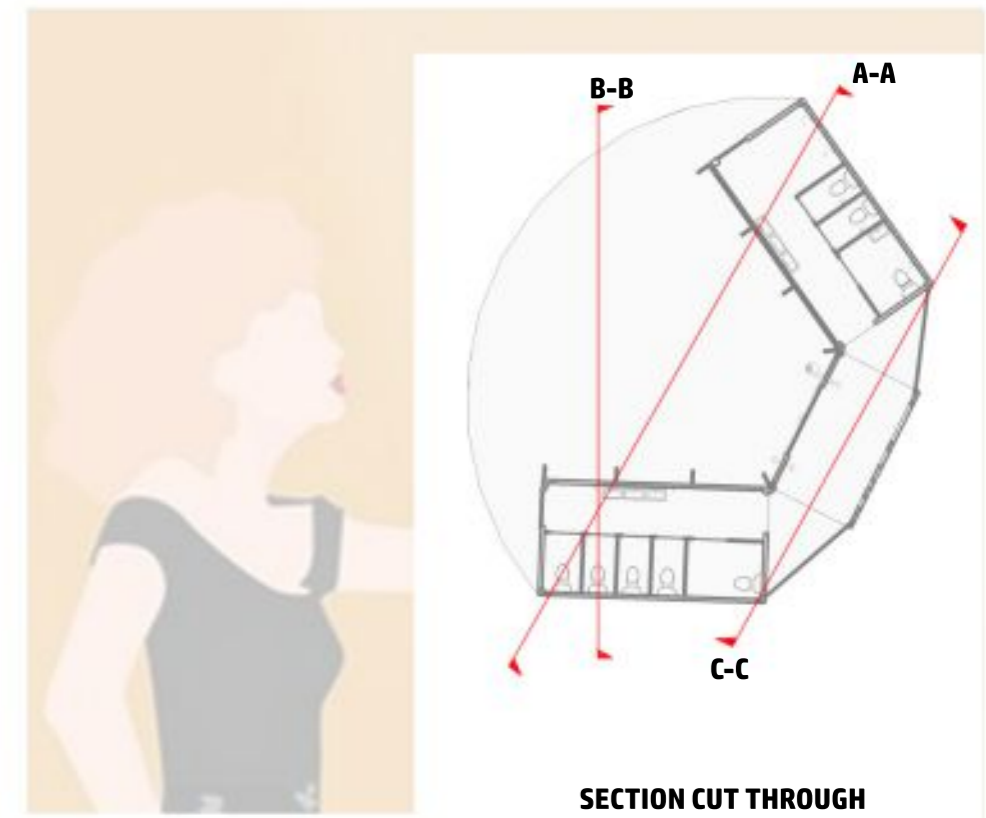


SECTION C-C

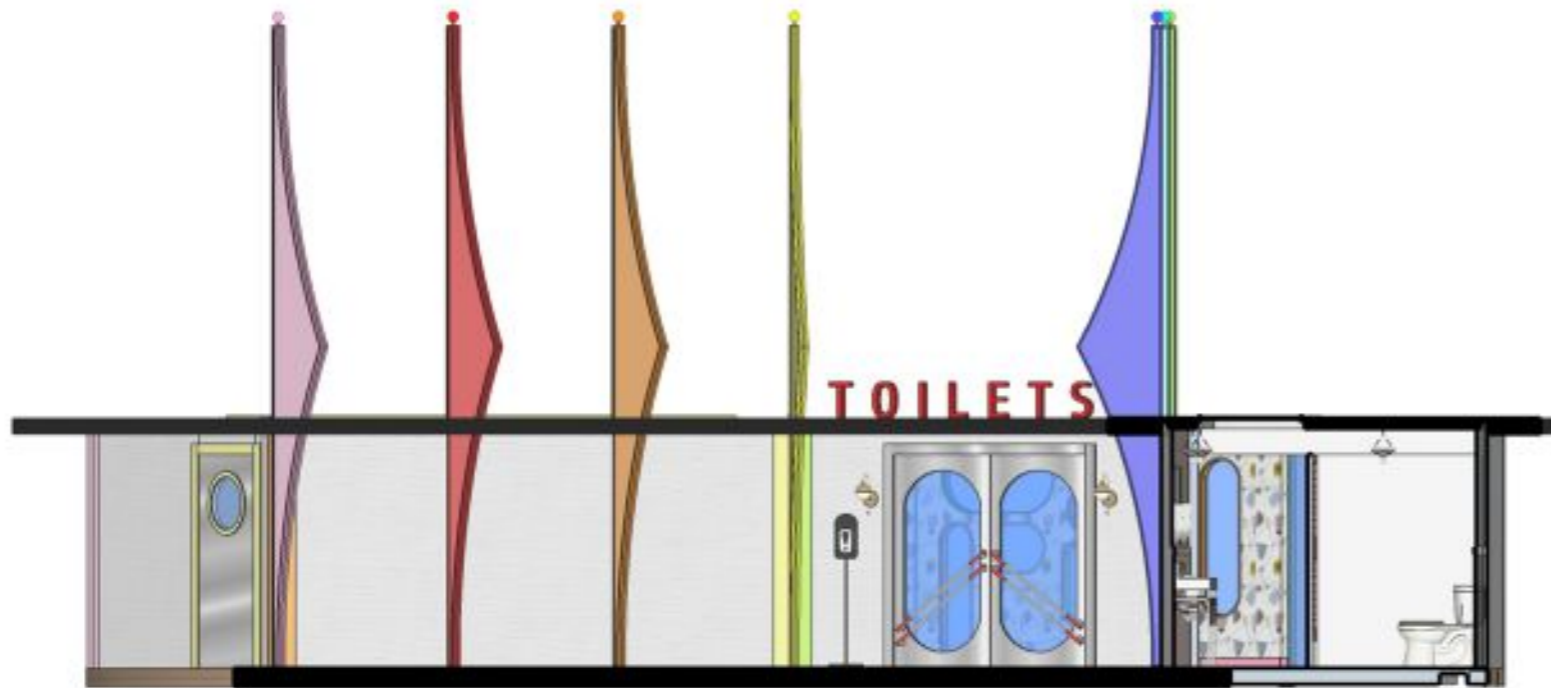
**SECTIONS
TOILET AREA
SCALED 1:200**



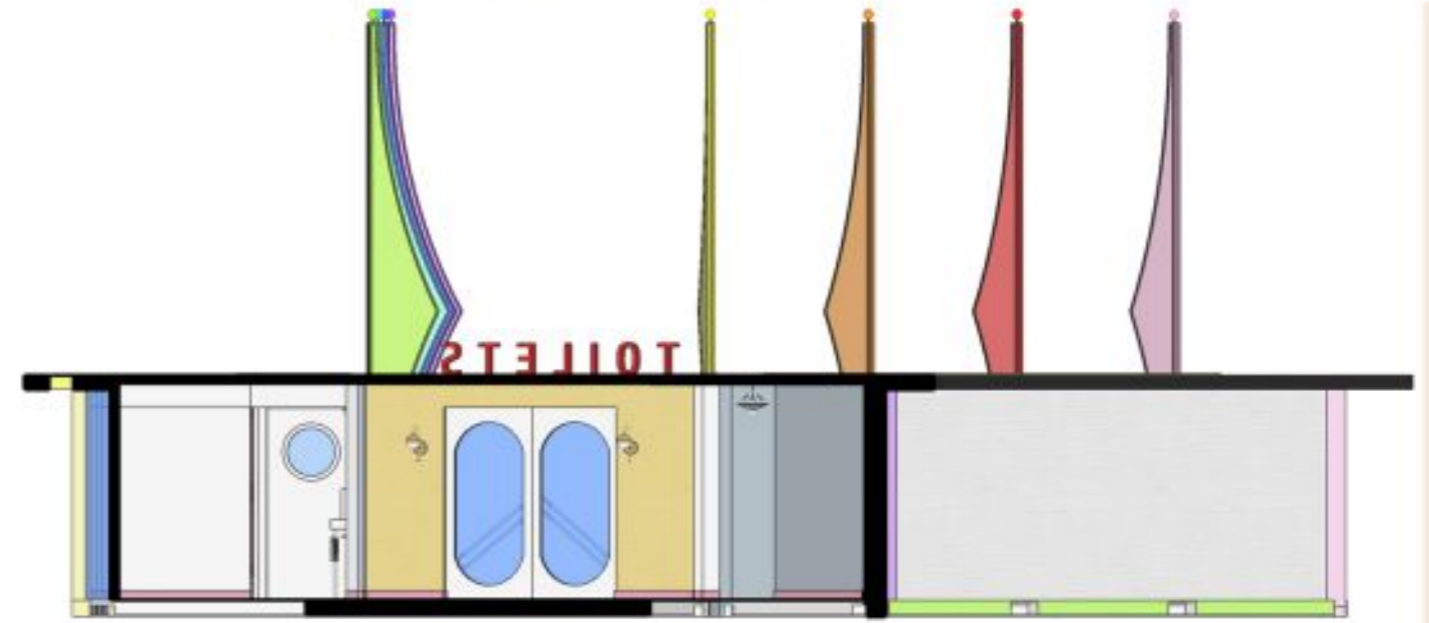
SECTION A-A



SECTION CUT THROUGH



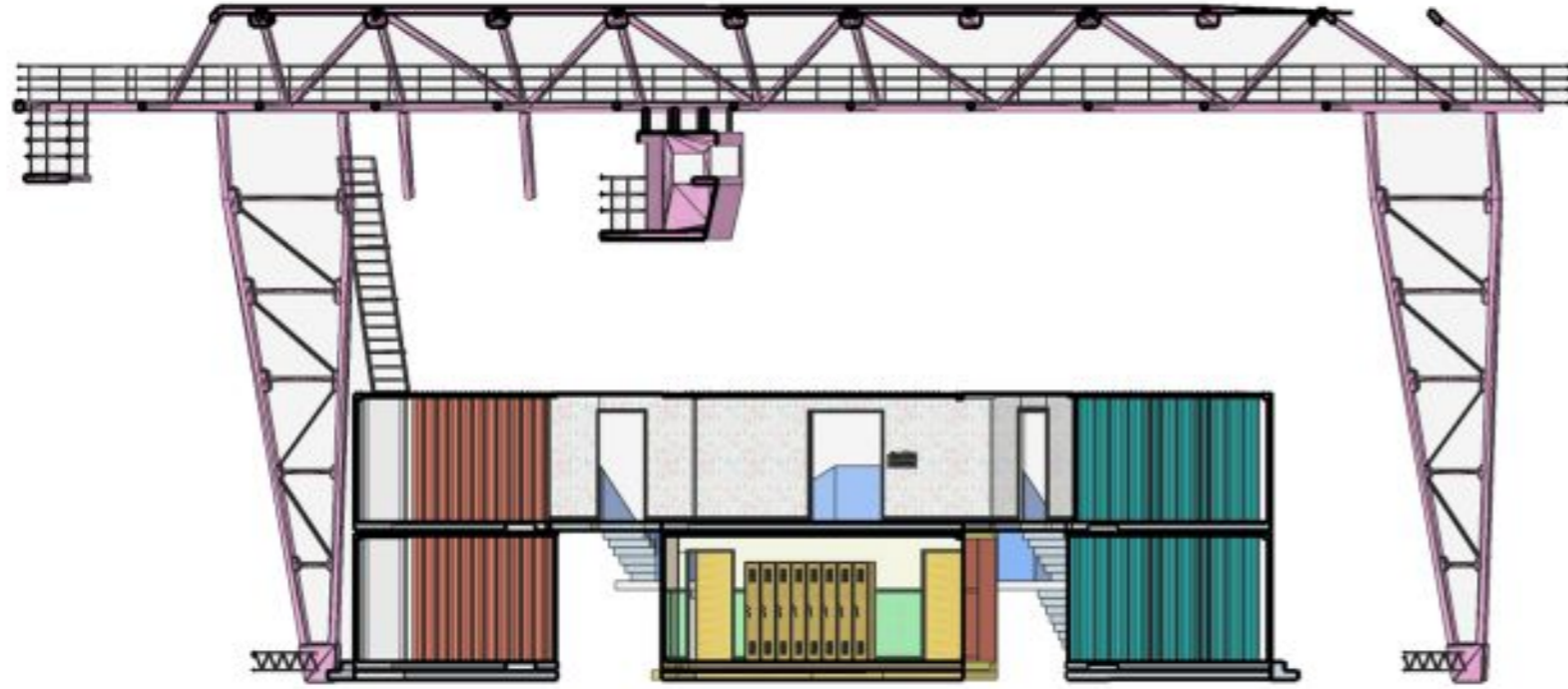
SECTION B-B



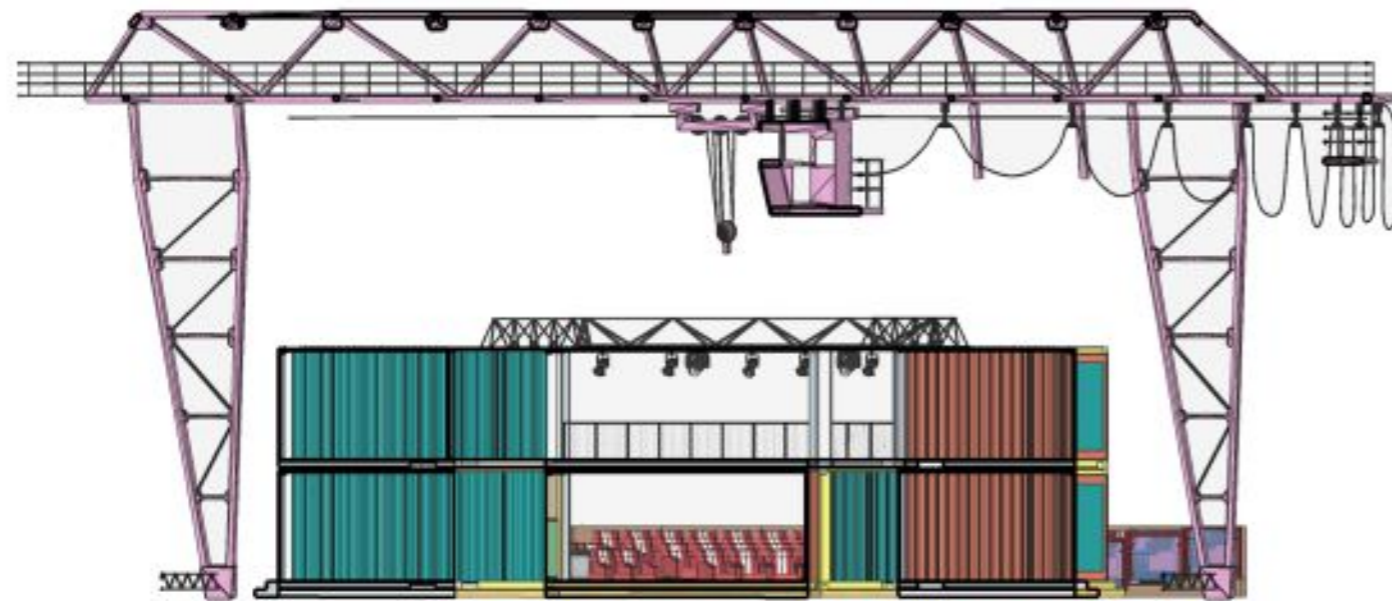
SECTION C-C



SECTIONS
PERFORMANCE AREA
 SCALED 1:200



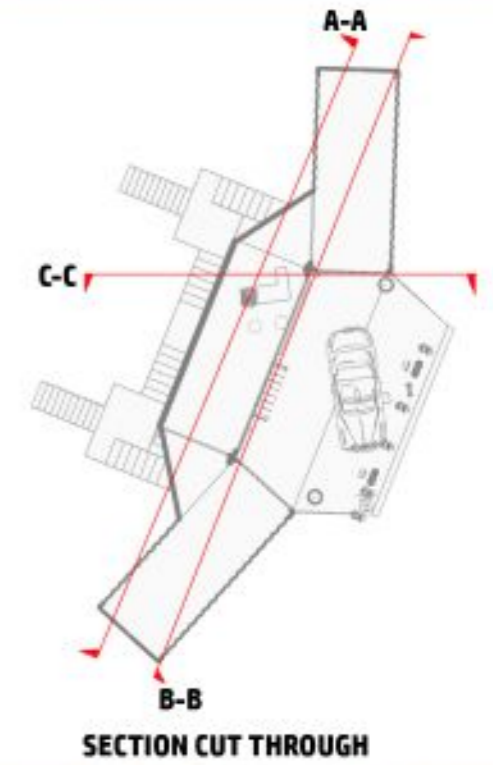
SECTION A-A



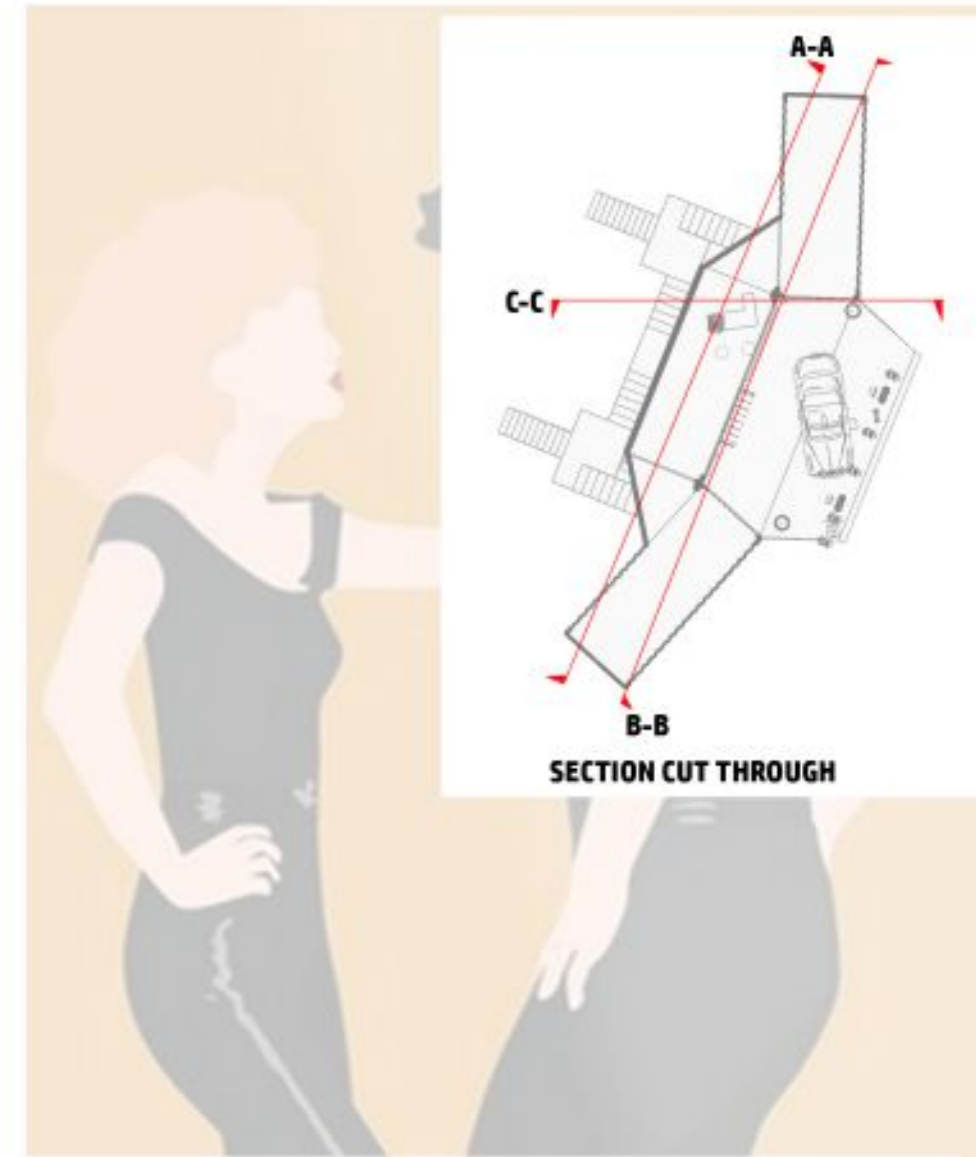
SECTION B-B



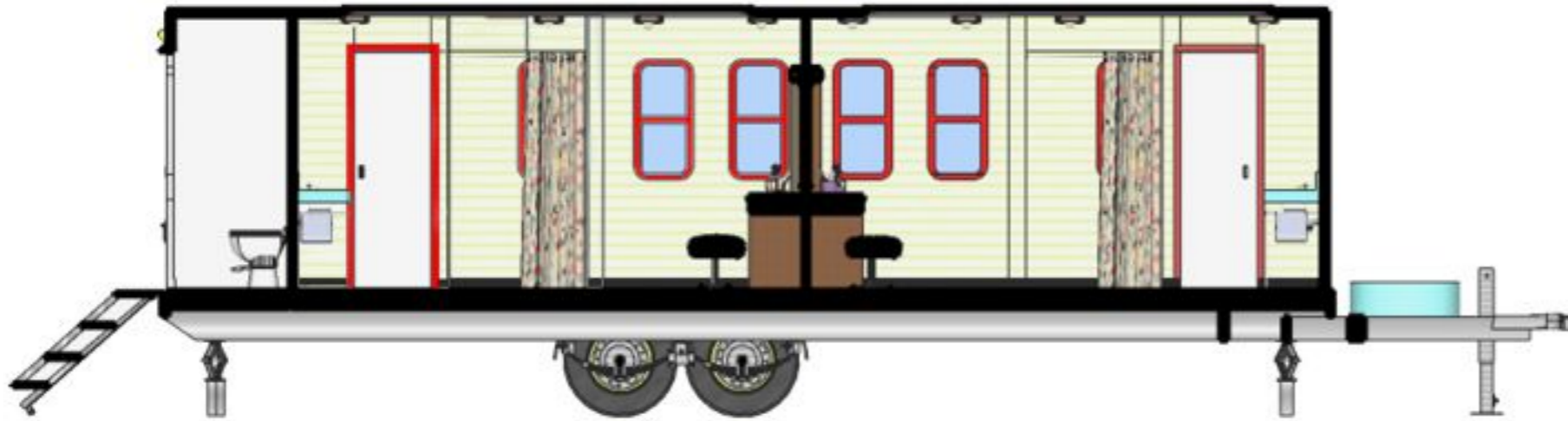
SECTION C-C



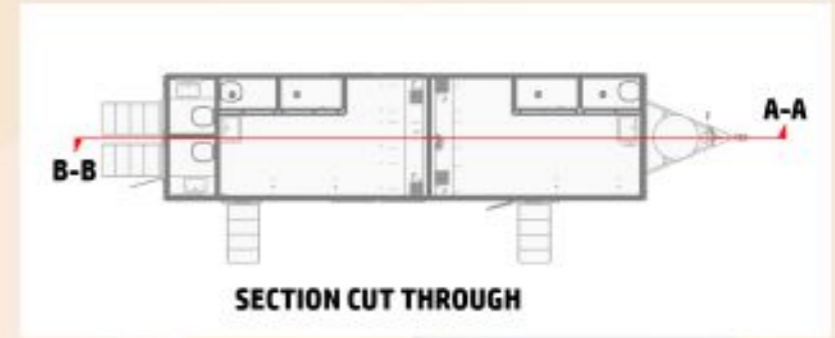
SECTION CUT THROUGH



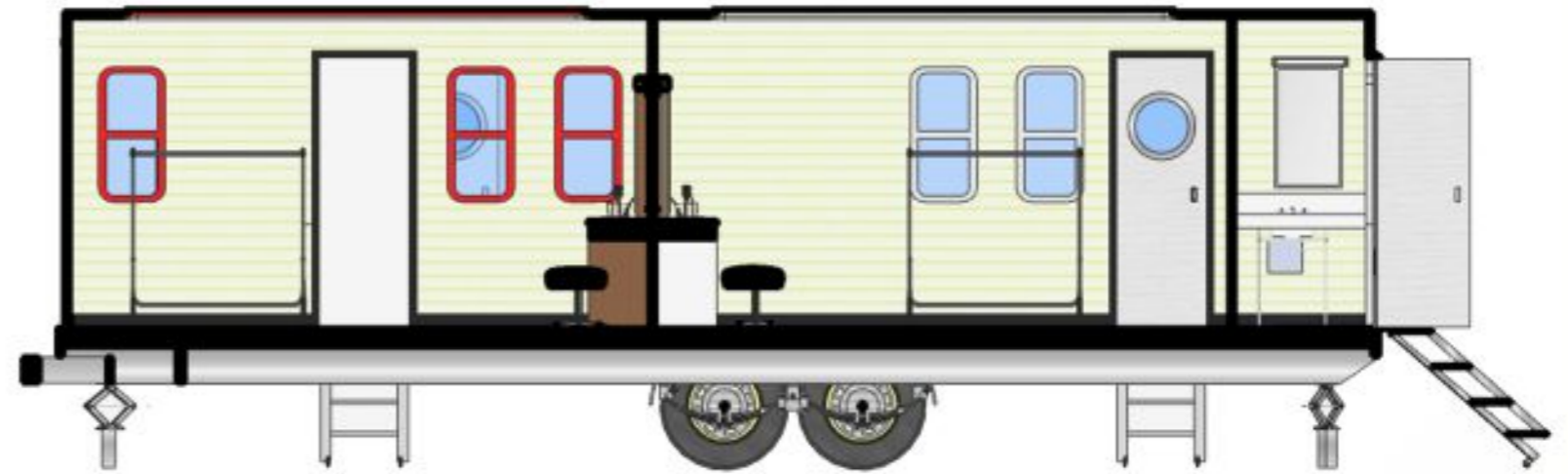
SECTIONS
DRESSING ROOM AREA
SCALED 1:200



SECTION A-A



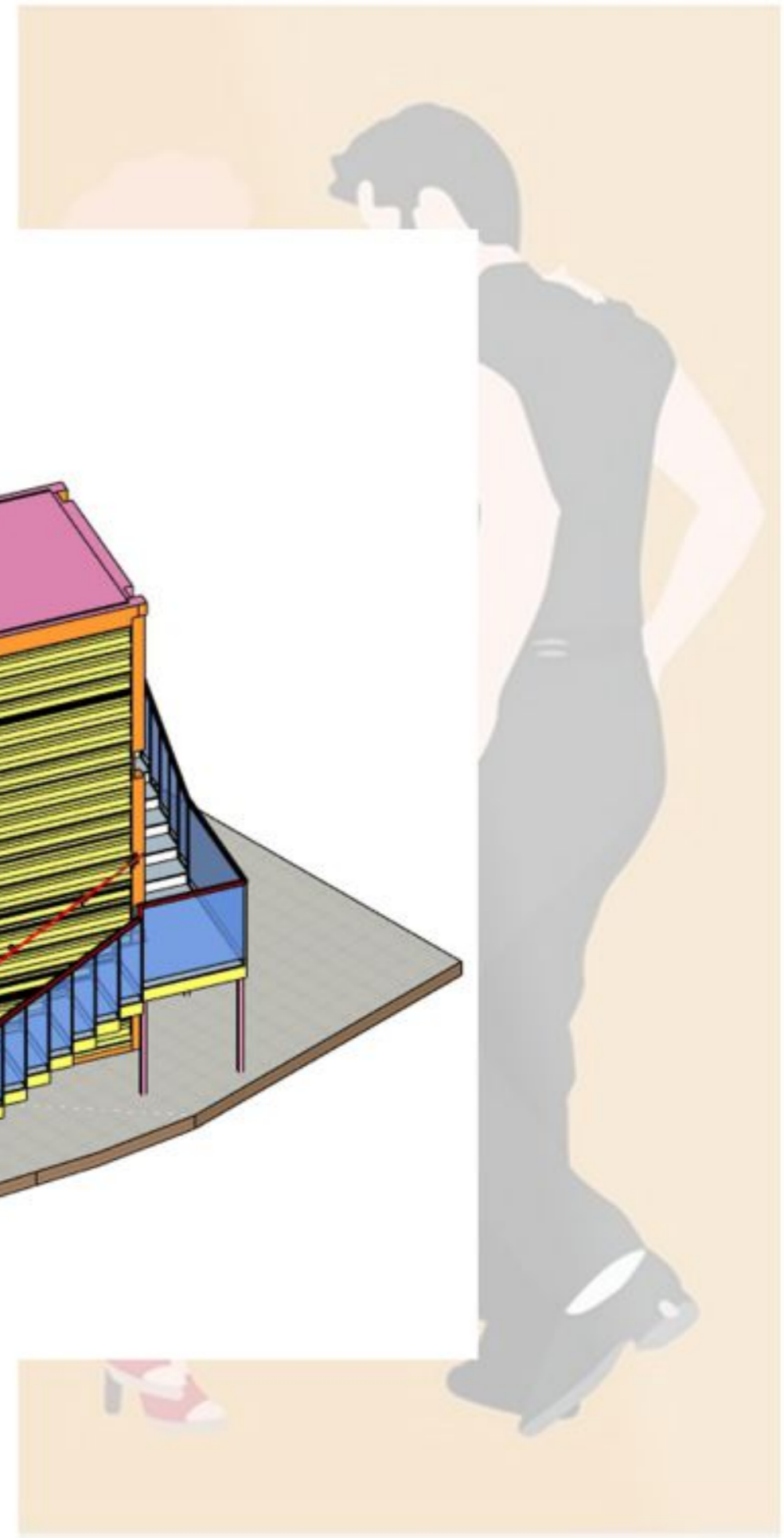
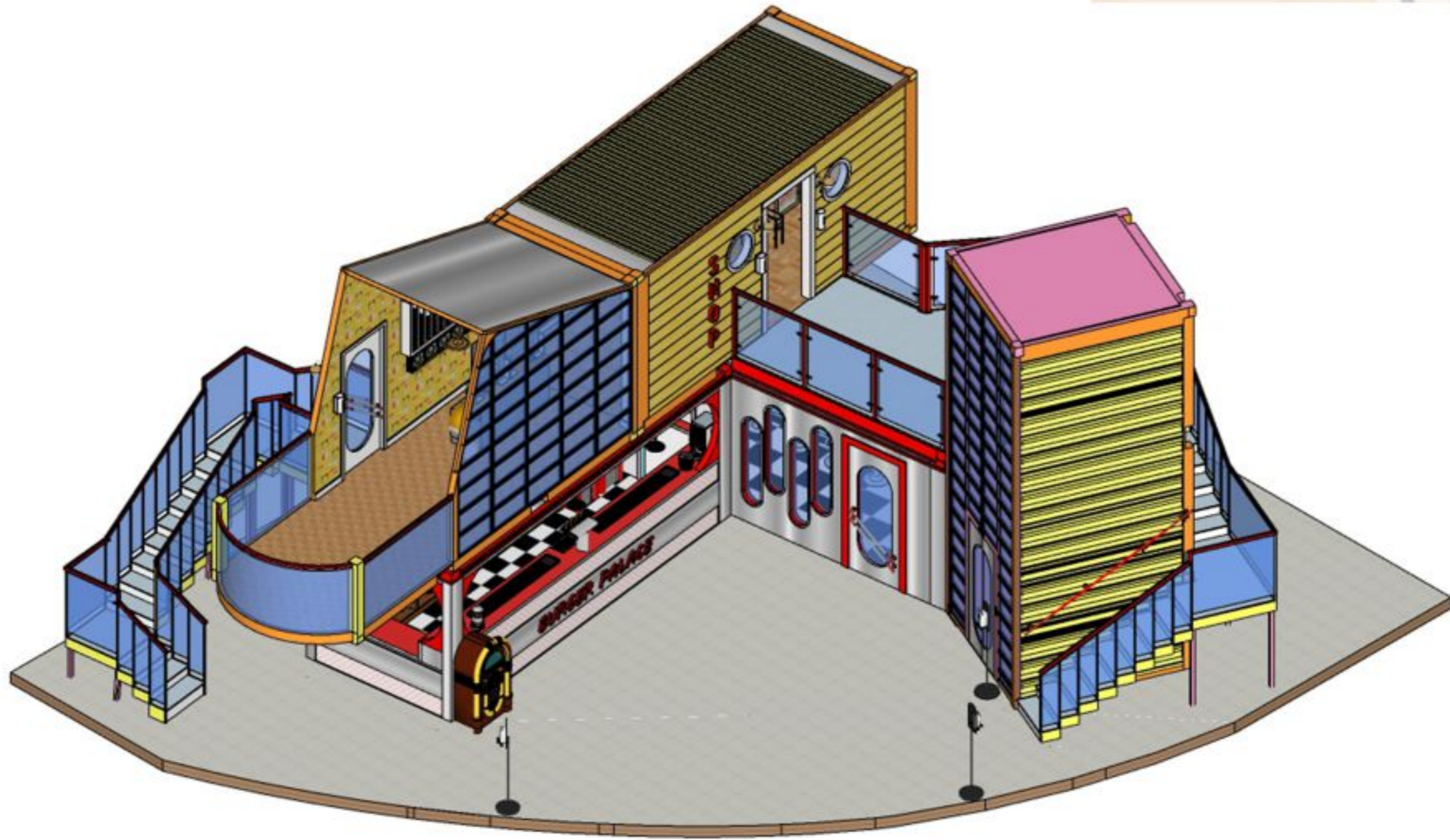
SECTION CUT THROUGH



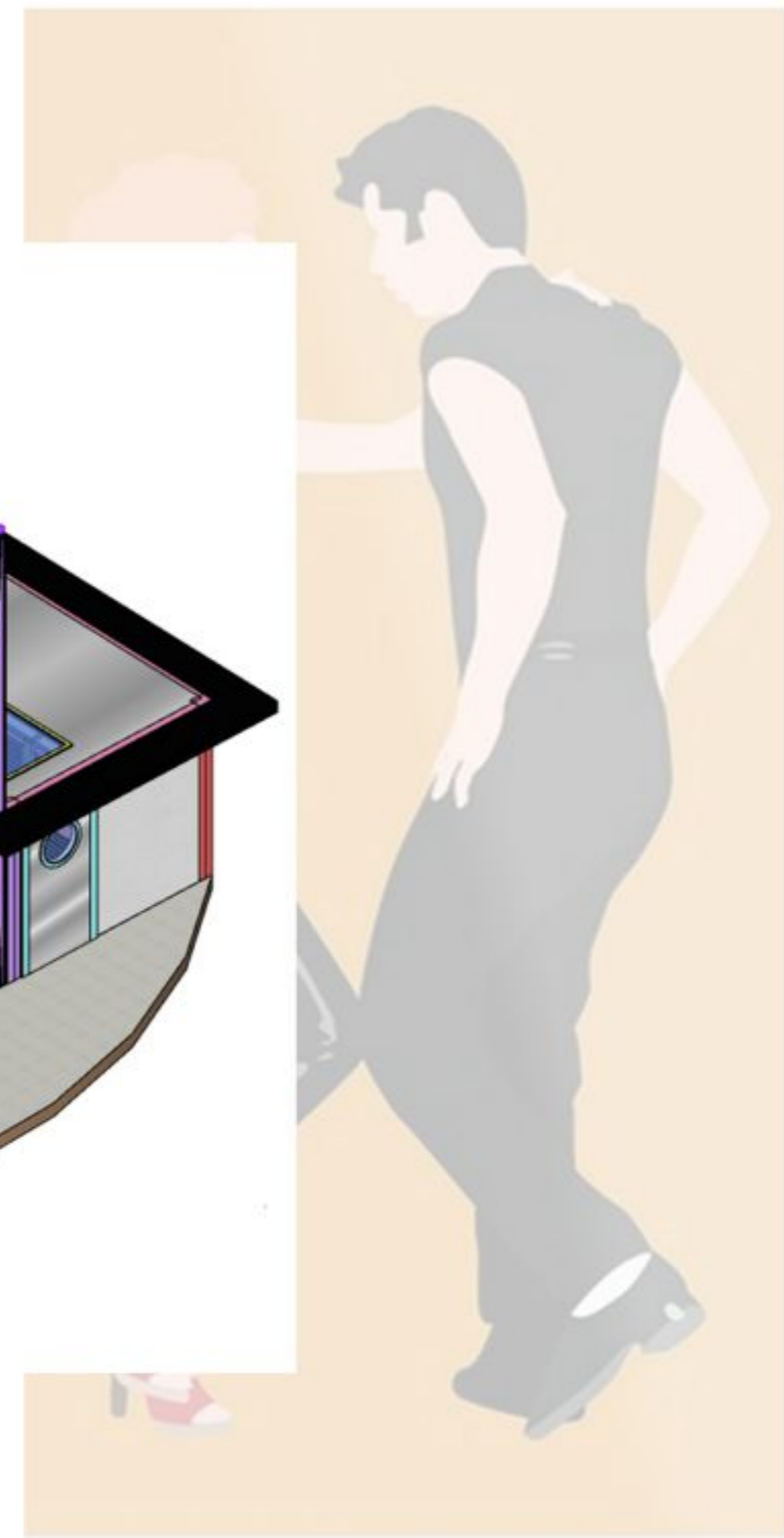
SECTION B-B



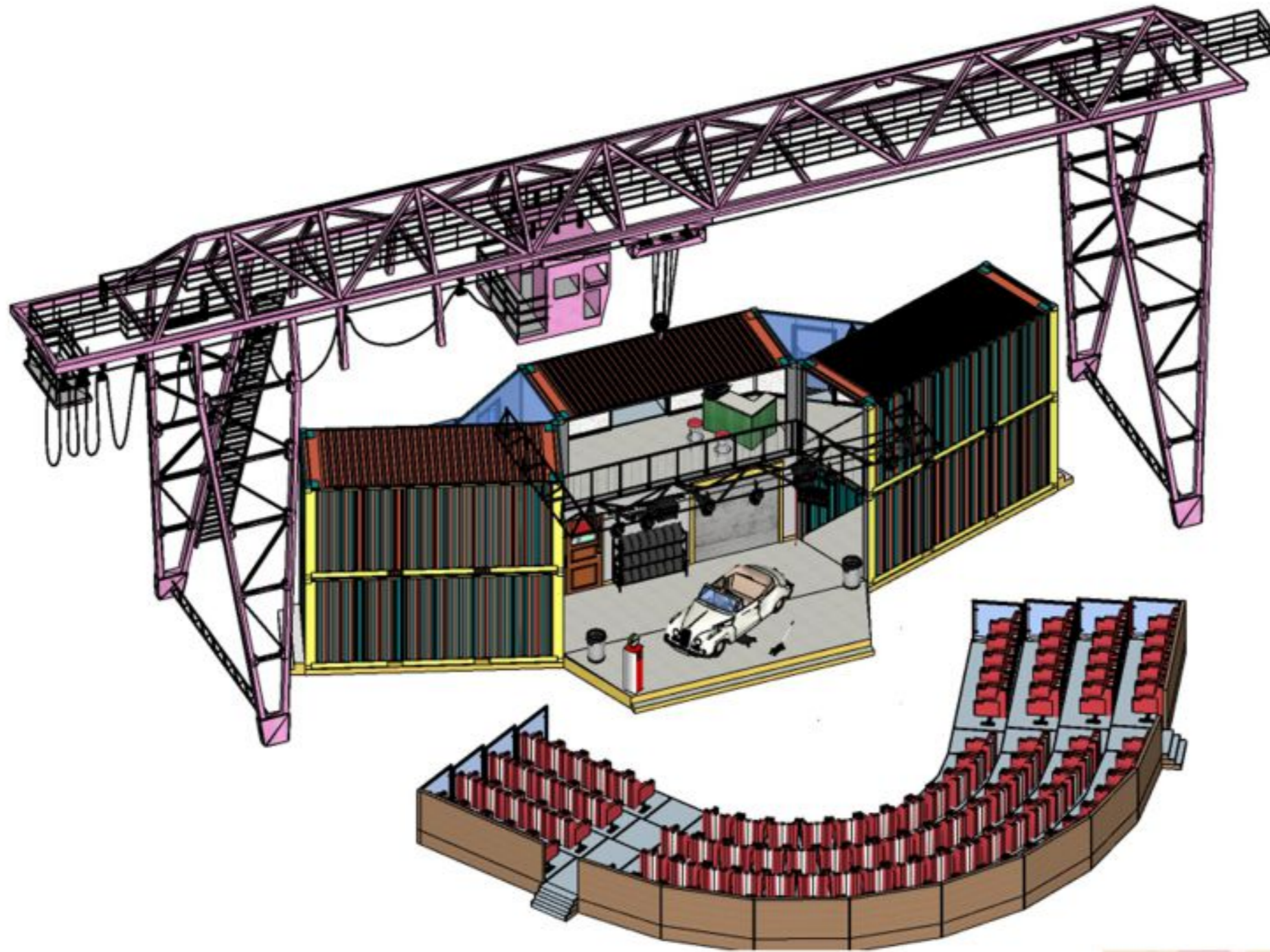
**AXONOMETRIC
REFRESHMENT & PROMOTION AREA
SCALED 1:200**



**AXONOMETRIC
TOILET AREA
SCALED 1:200**

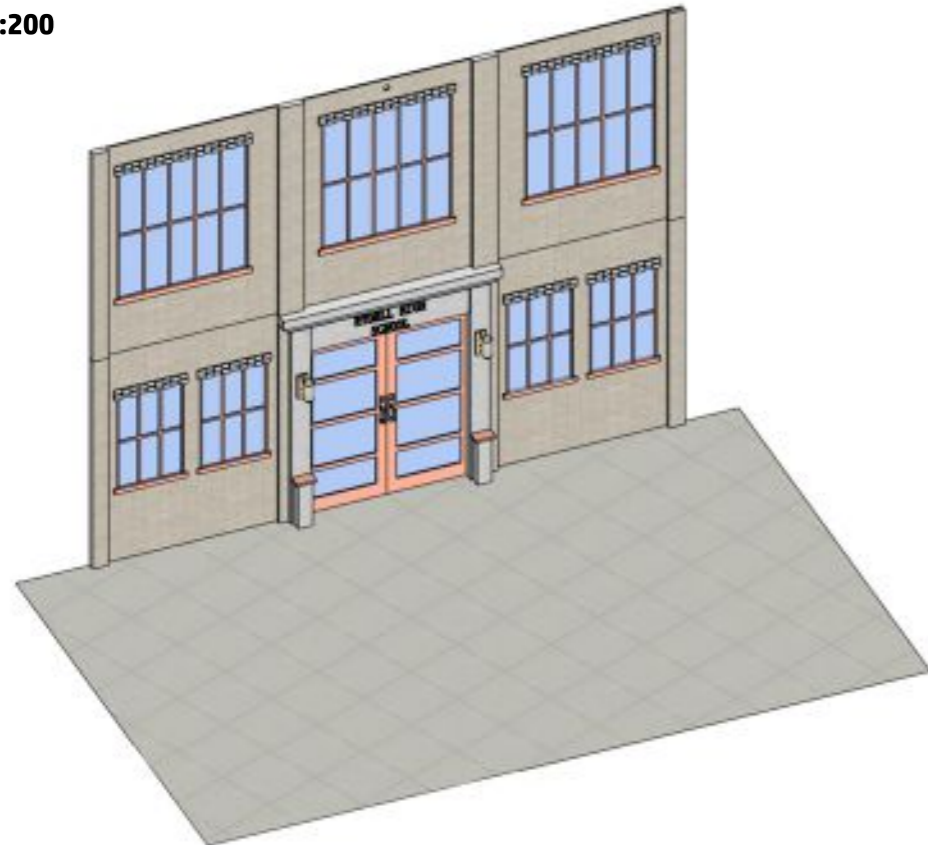


**AXONOMETRIC
PERFORMANCE AREA
SCALED 1:200**



PERFORM
"GREASE THE MUSICAL"
REBECCA CHICK

**AXONOMETRIC
SET DESIGNS
SCALED 1:200**



SCENE 1



SCENE 2



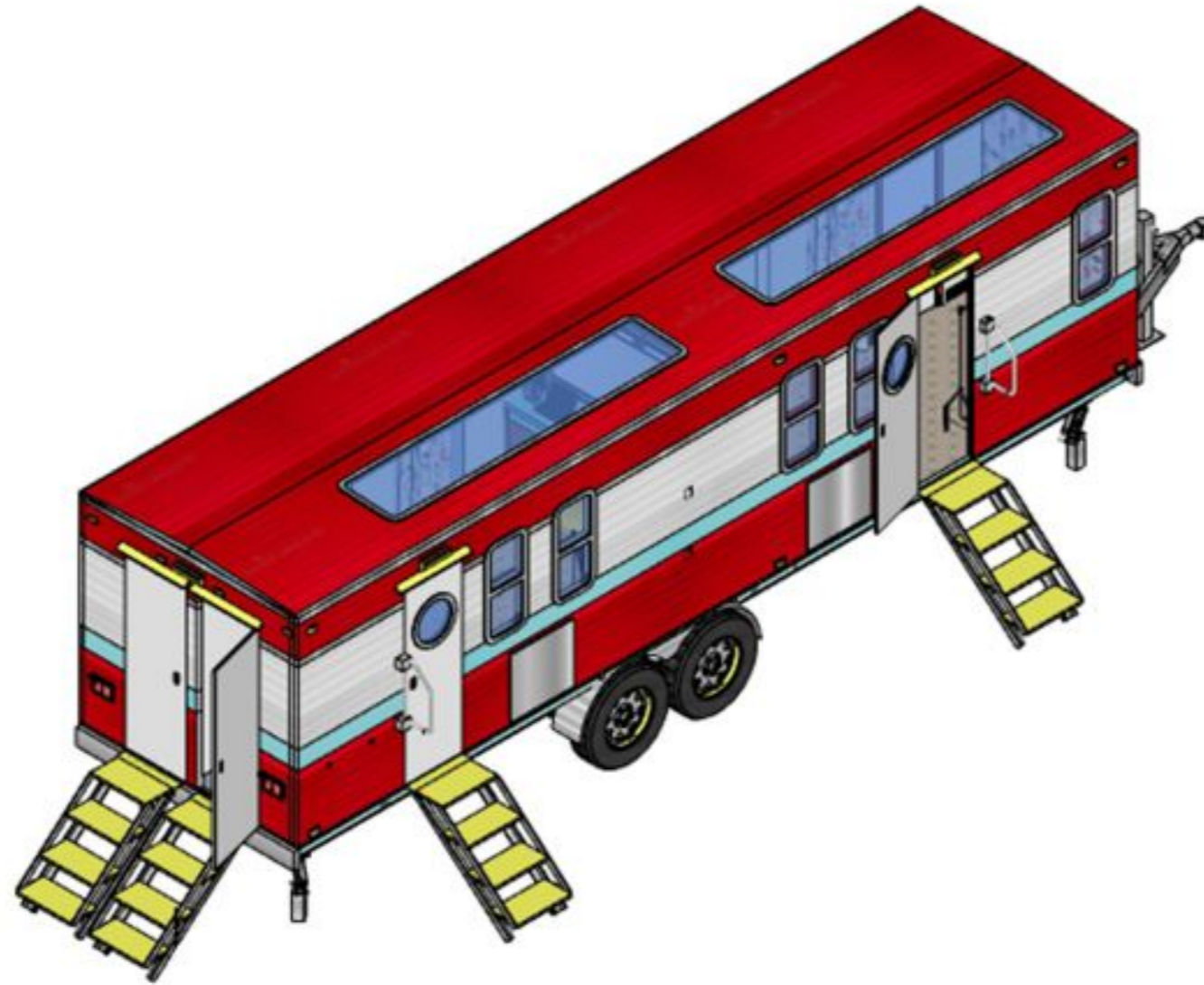
SCENE 3



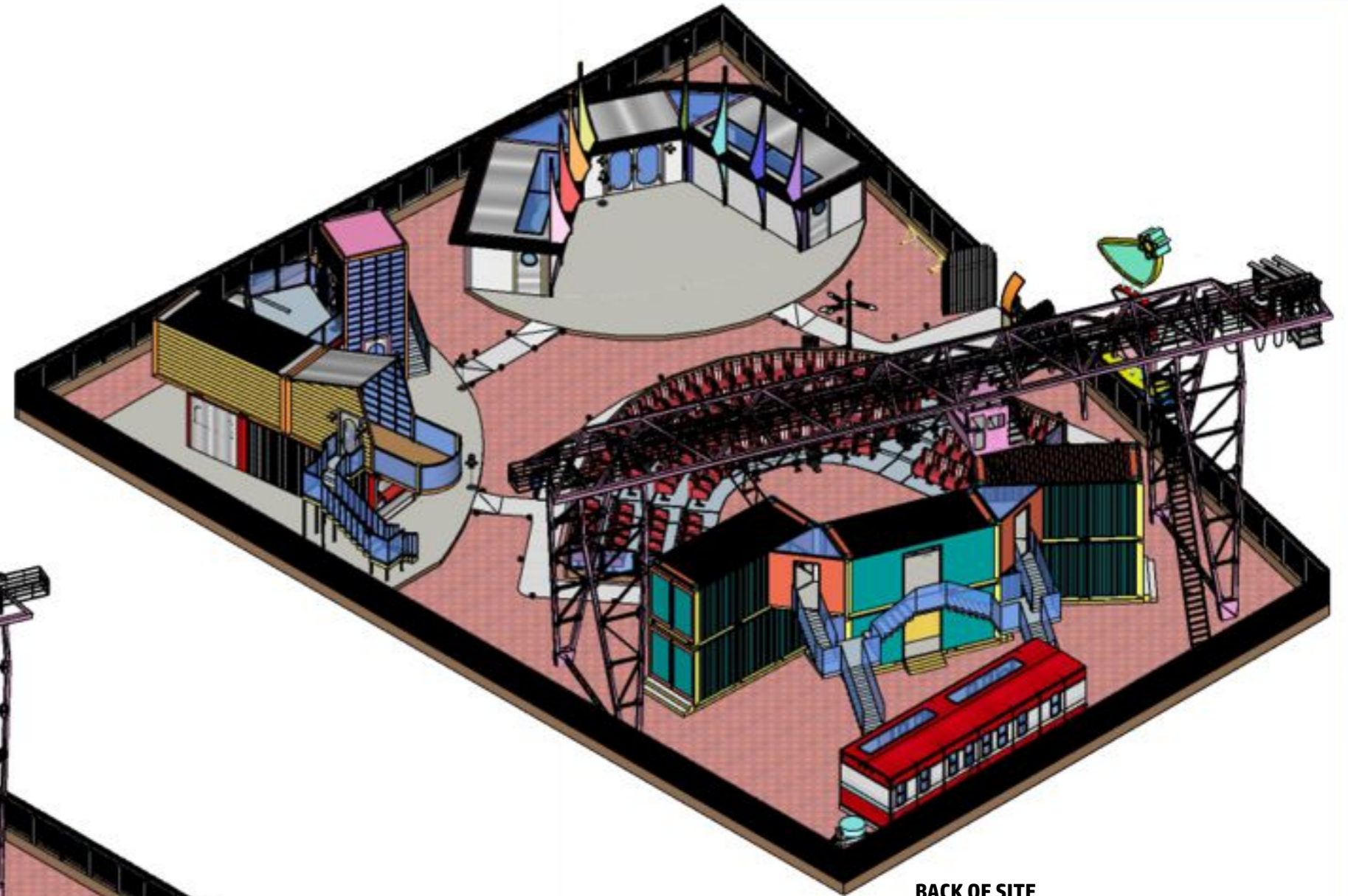
SCENE 4



**AXONOMETRIC
DRESSING ROOM AREA
SCALED 1:200**



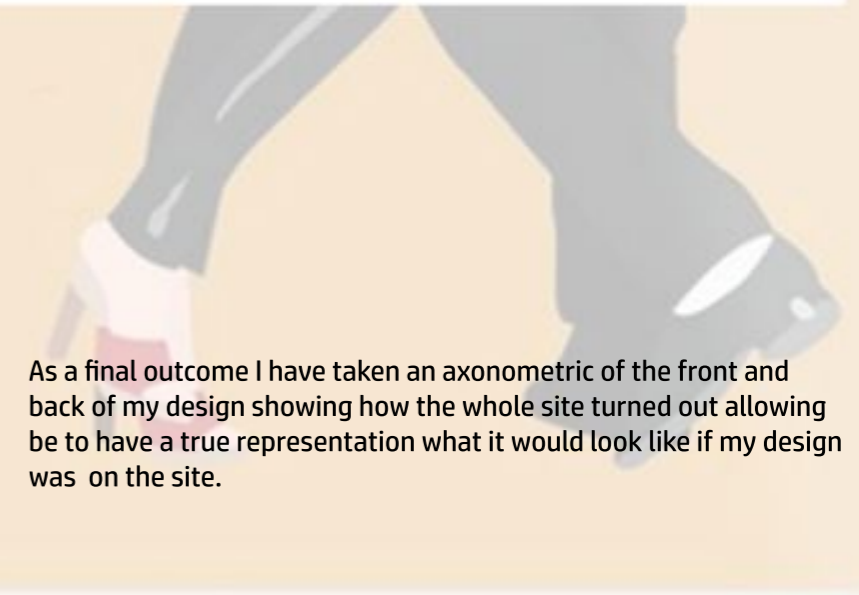
**AXONOMETRIC
WHOLE SITE
1:200**



BACK OF SITE

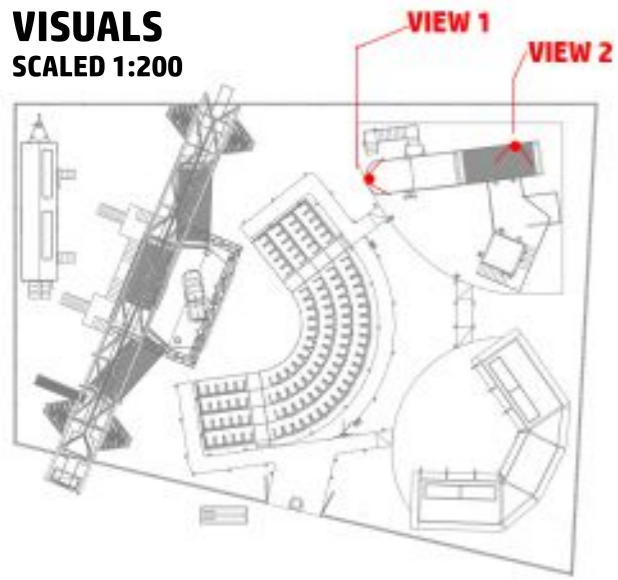


FRONT OF SITE



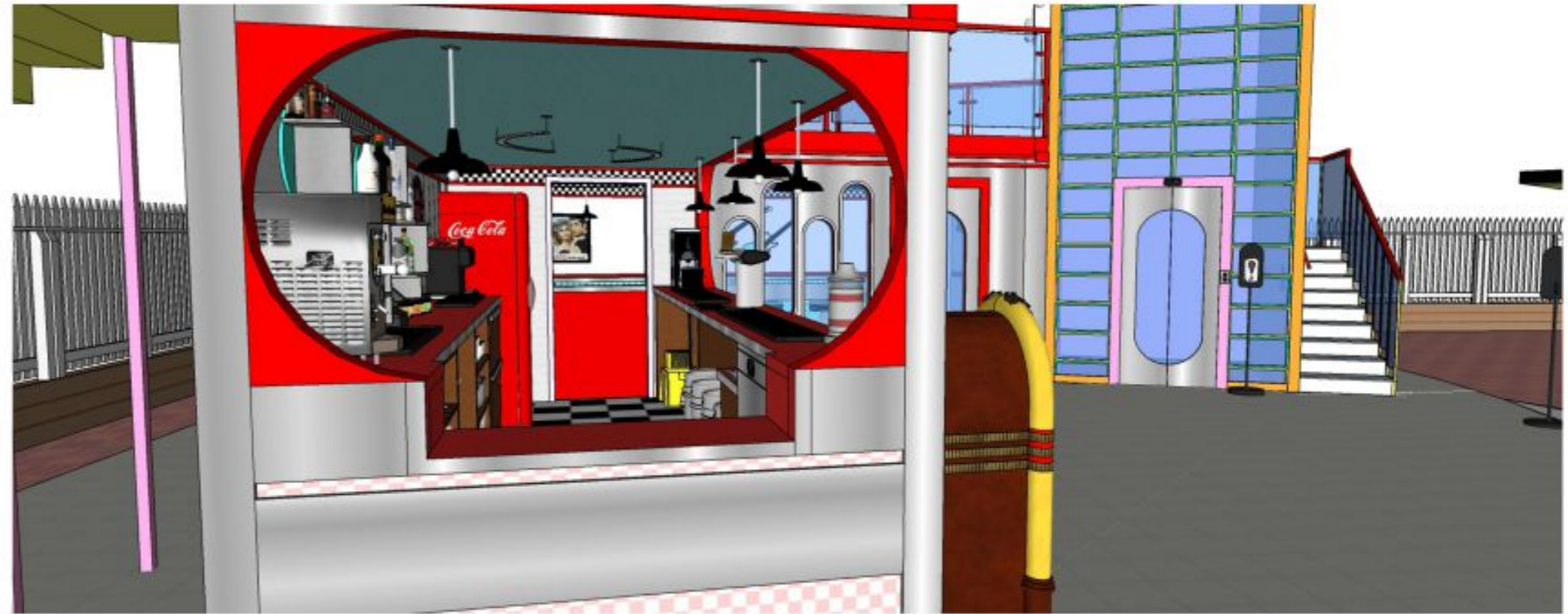
As a final outcome I have taken an axonometric of the front and back of my design showing how the whole site turned out allowing be to have a true representation what it would look like if my design was on the site.

VISUALS
SCALED 1:200



When looking at view 1 it shows a lowered counter top so that wheelchair users can place their order and have access to the facilities.

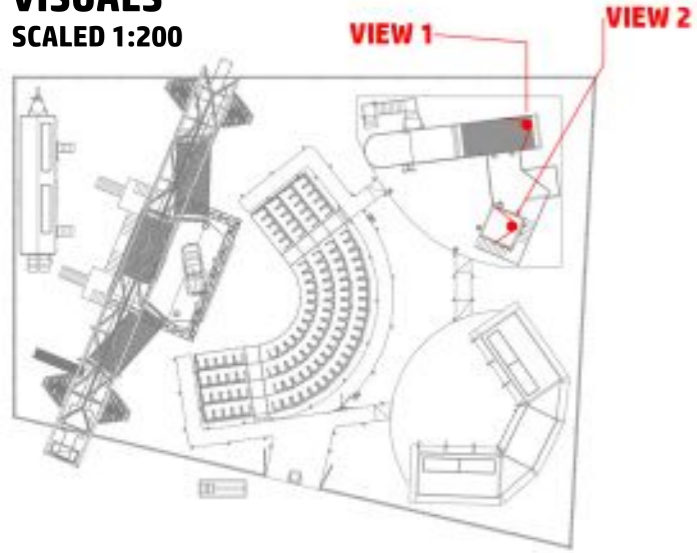
VIEW 1



VIEW 2



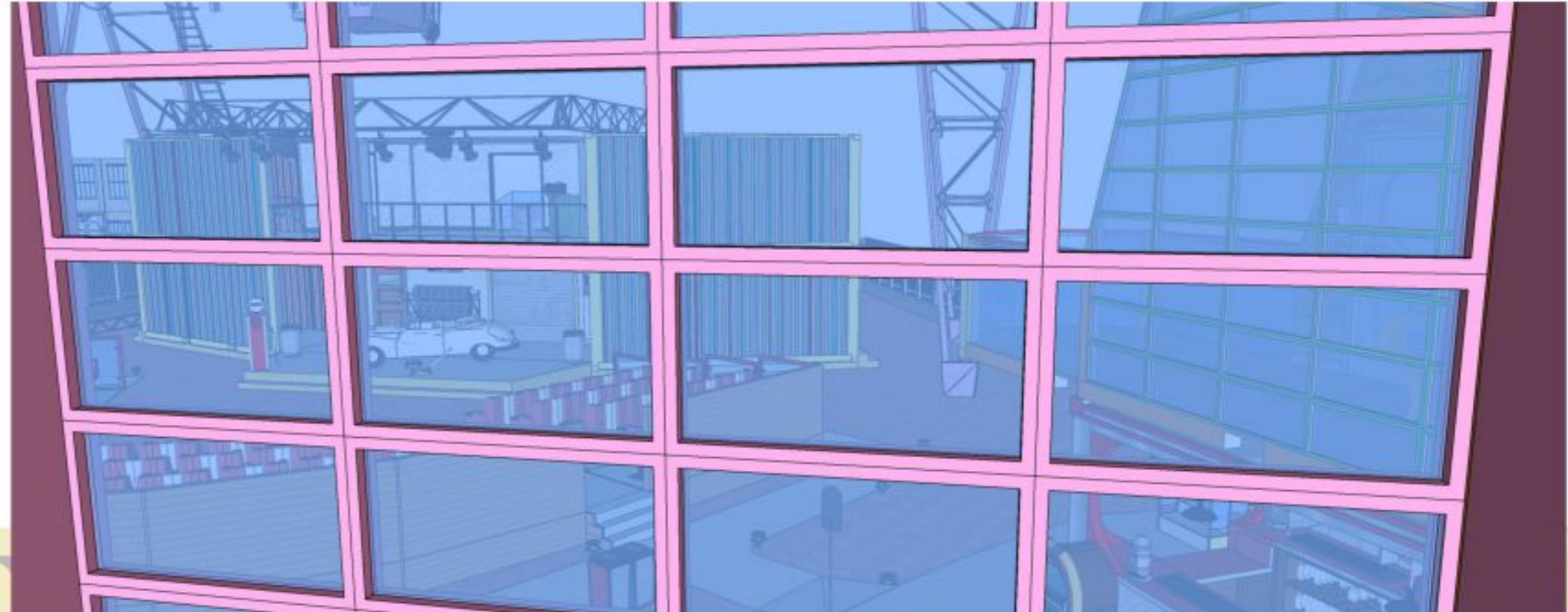
VISUALS
SCALED 1:200



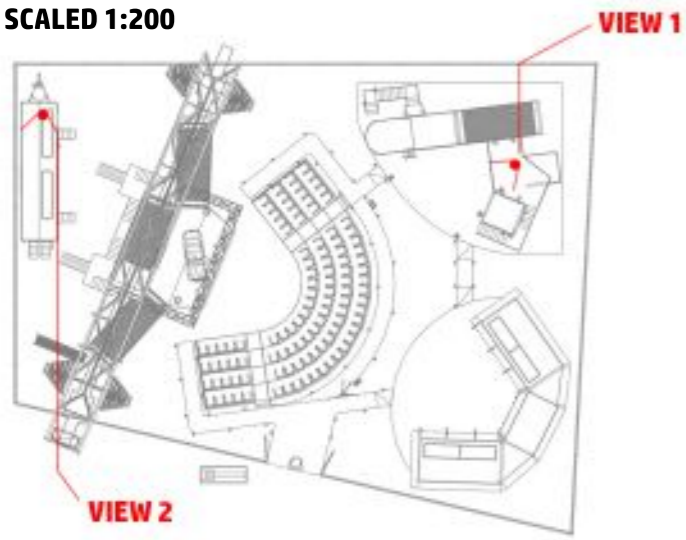
VIEW 1



VIEW 2



VISUALS
SCALED 1:200



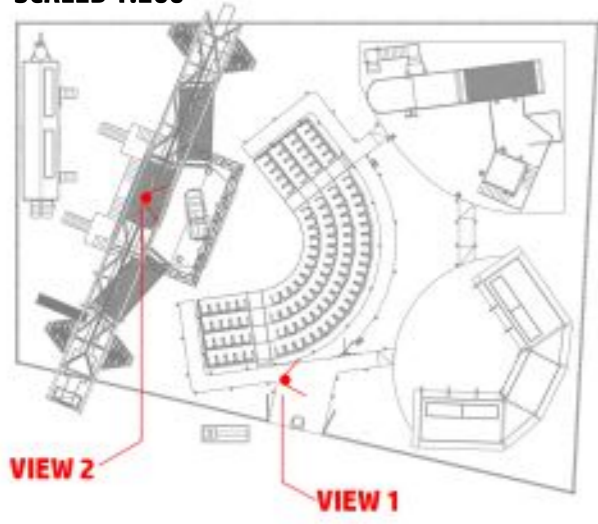
VIEW 1



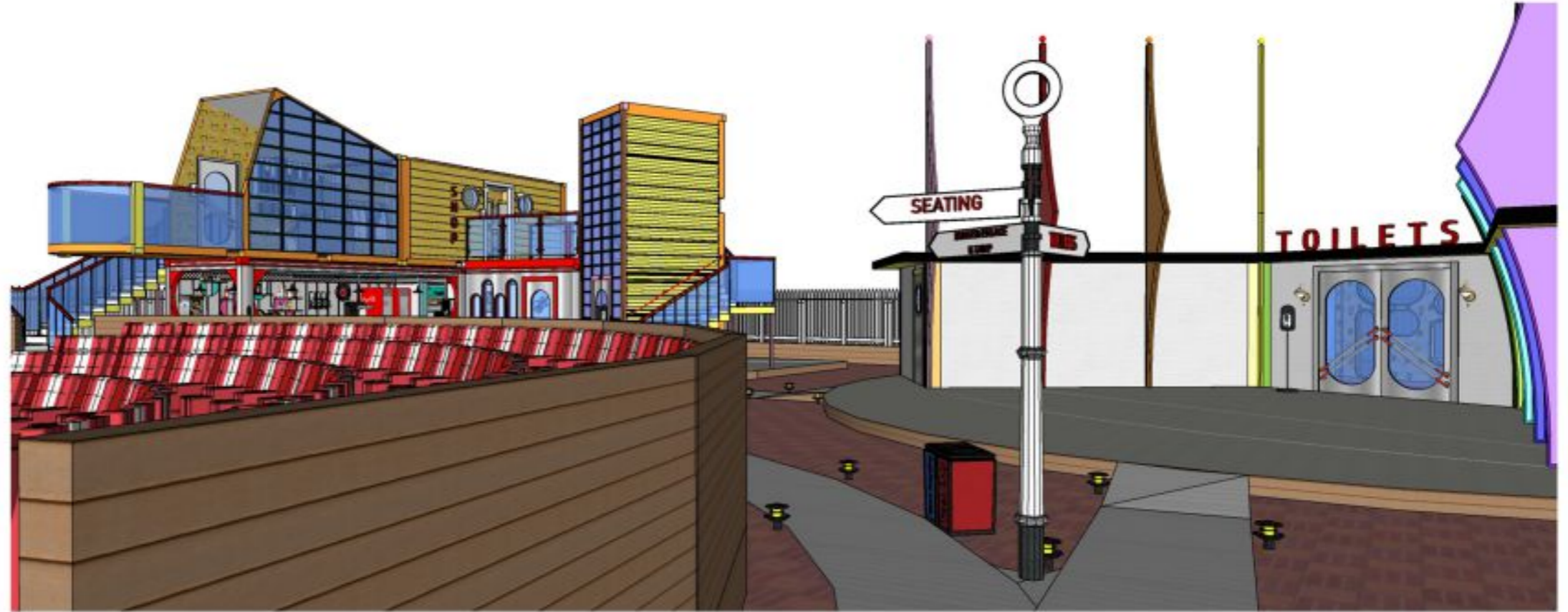
VIEW 2



VISUALS
SCALED 1:200



VIEW 1

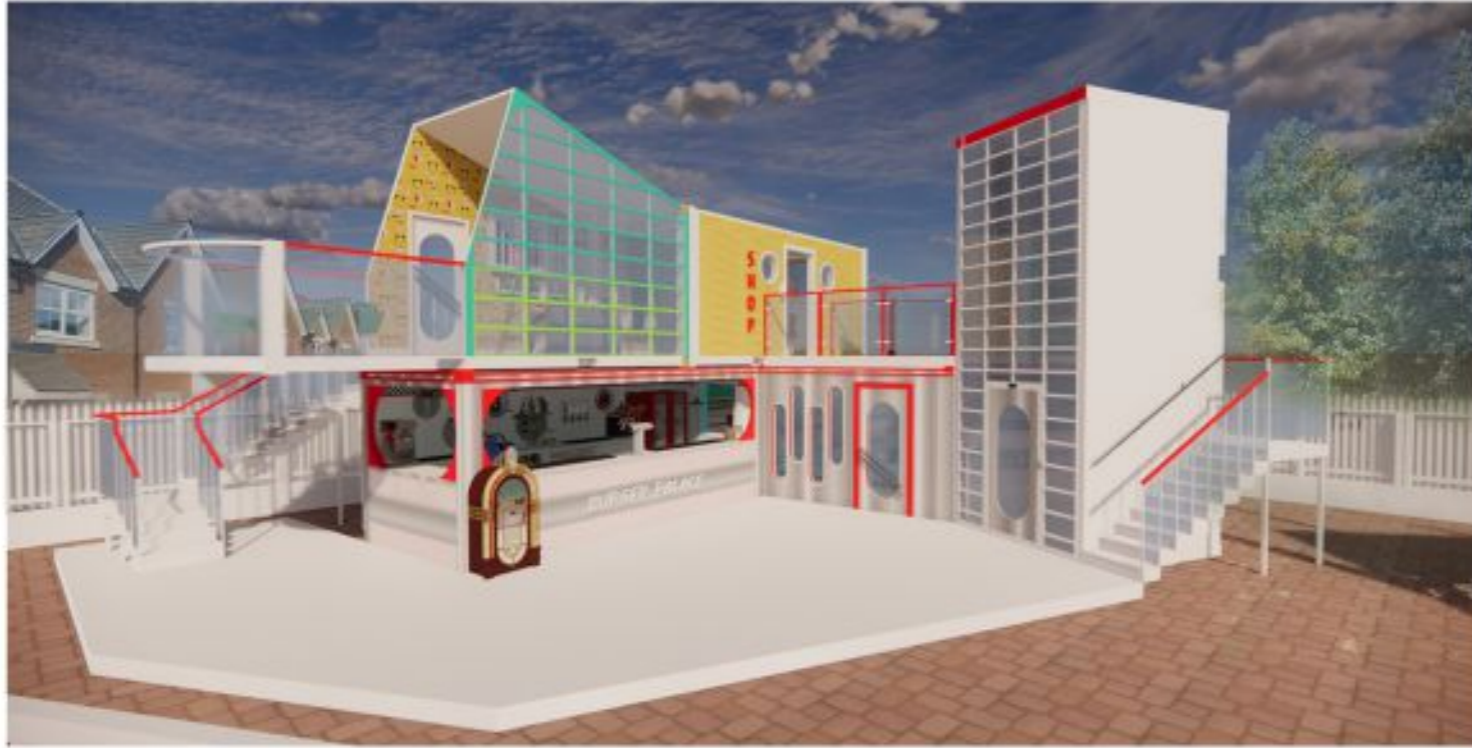


VIEW 2



EXTERIOR RENDERS - ALL FOUR ZONES

REFRESHMENT & PROMOTION ZONE



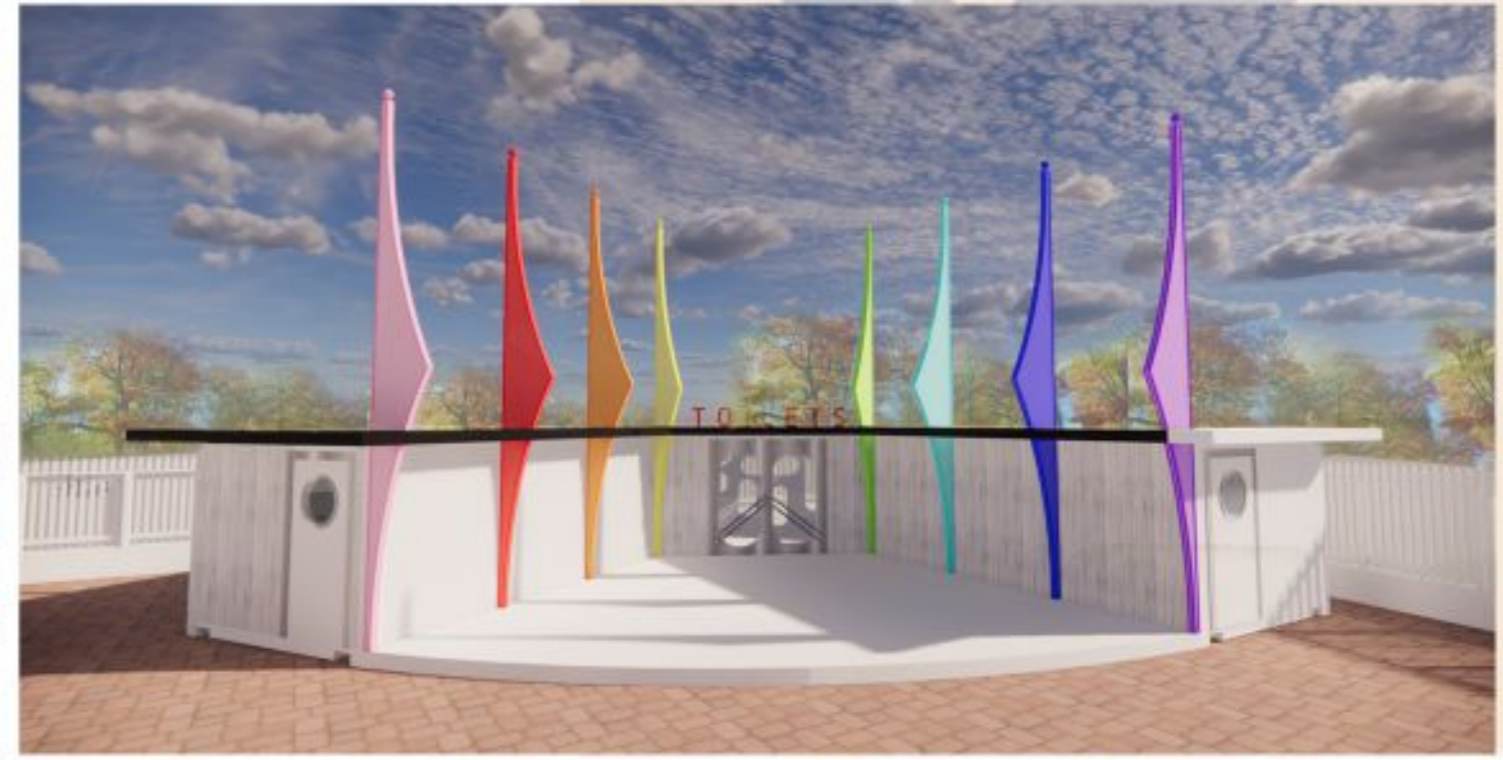
PERFORMANCE ZONE



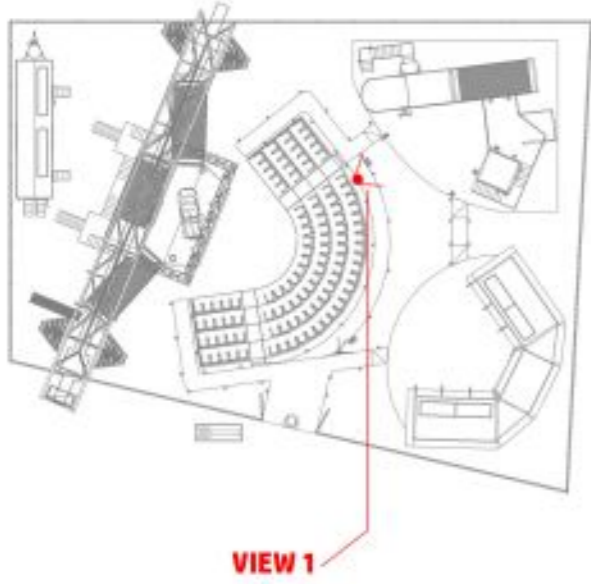
PERFORMANCE ZONE LOOKING OUT TOWARDS SEATING AREA



TOILET ZONE



RENDERS
SCALED 1:200

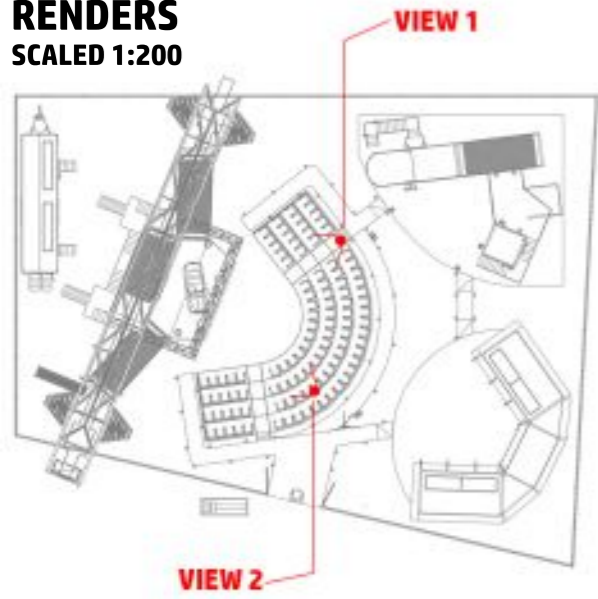


VIEW 1



PERFORM
"GREASE THE MUSICAL"
REBECCA CHICK

RENDERS
SCALED 1:200



VIEW 1

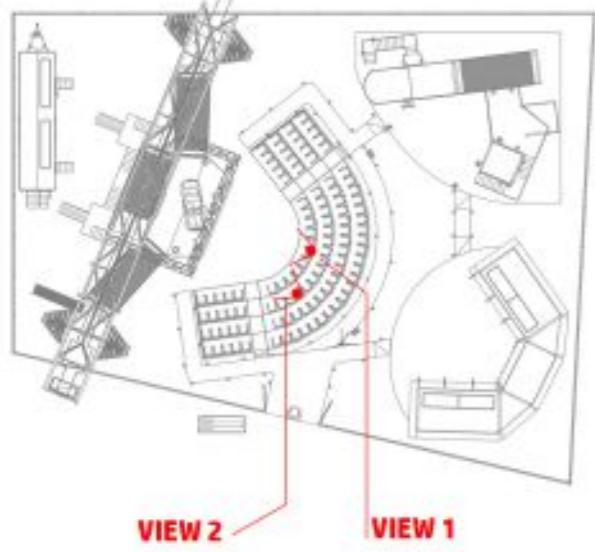


VIEW 2



PERFORM
"GREASE THE MUSICAL"
REBECCA CHICK

RENDERS
SCALED 1:200



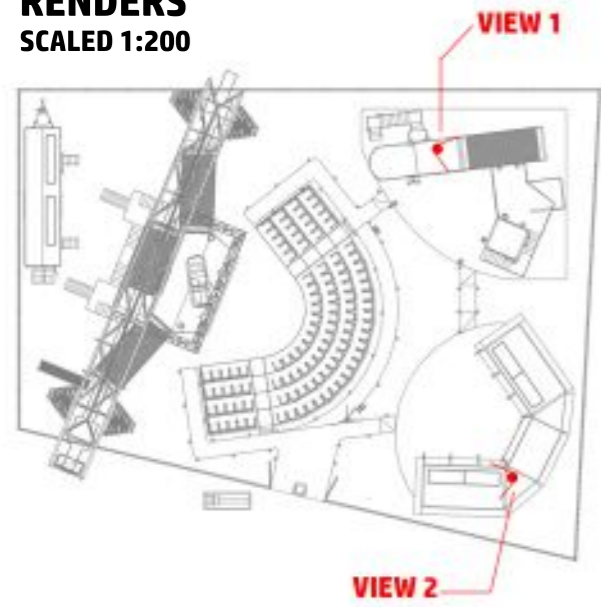
VIEW 1



VIEW 2



RENDERS
SCALED 1:200



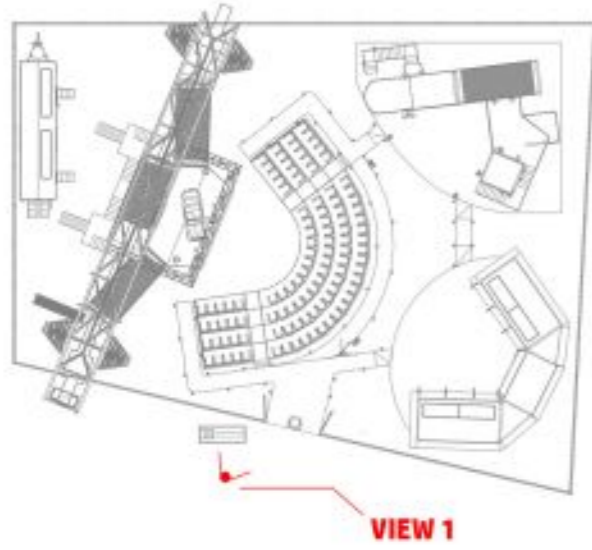
VIEW 1



VIEW 2



RENDERS
SCALED 1:200



VIEW 1



PERFORM
"GREASE THE MUSICAL"
REBECCA CHICK