



Amike du Plessis

Creative Designer

SOLIS



Solis

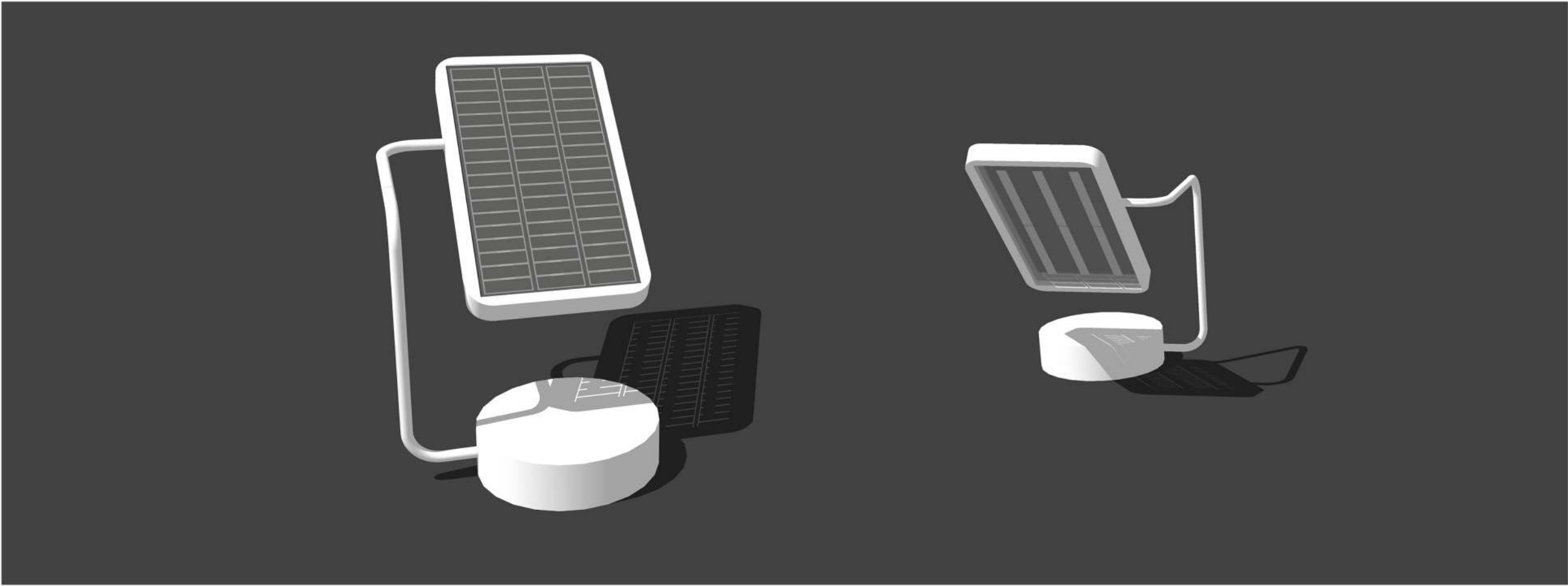
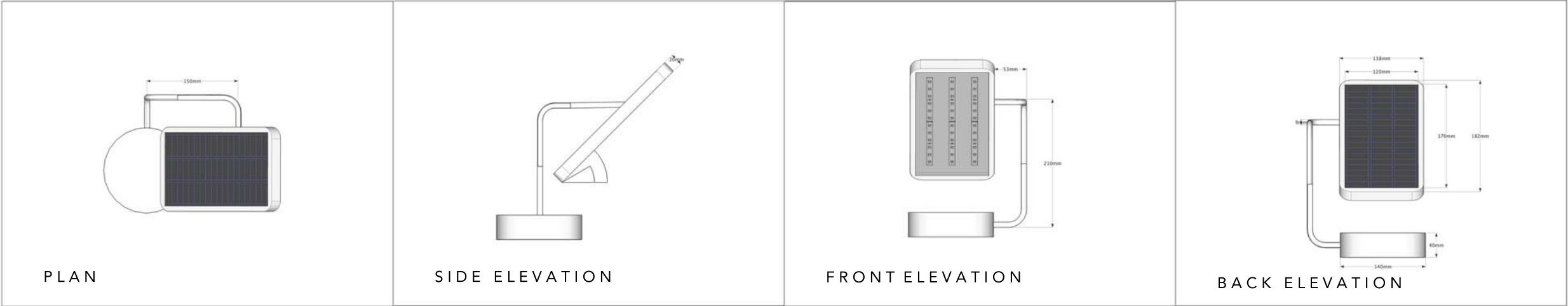
BRIEF

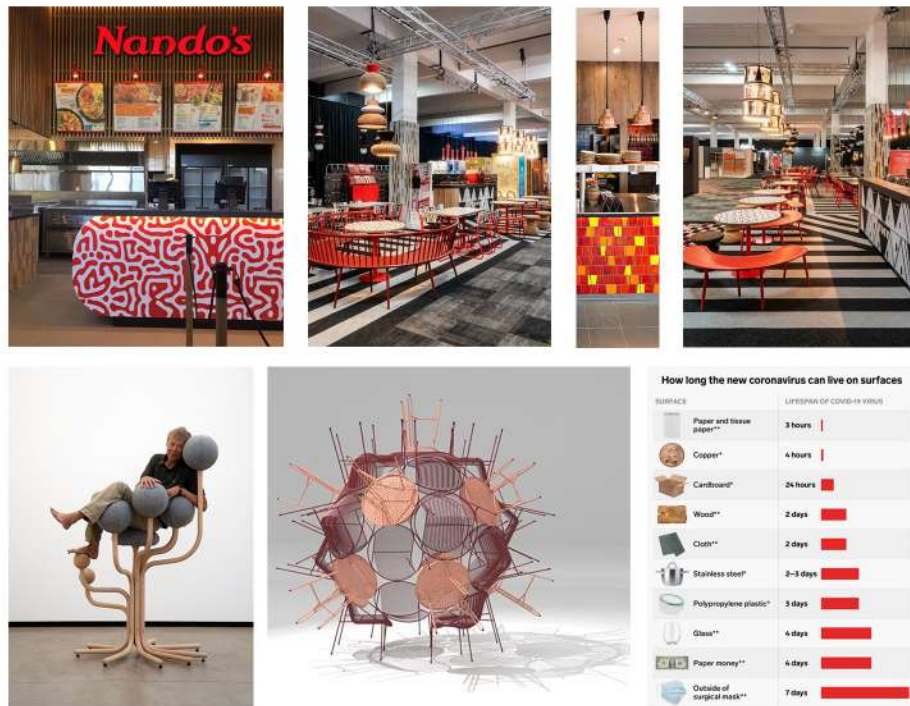
The SWITCH Design Competition is an ACDC Express initiative that encourages South African designers to solve an everyday issue faced by countless South Africans – having to study by candlelight! Every South African has the right to an education, but should have the right to safety as well. We are calling on all designers to create an innovative solar solution. The SWITCH Design Competition allows ACDC Express and their partners to contribute to our country and local communities.

SWITCH seeks to encourage designers from all walks of life to engage their talents in the conceptual design of a practical product, focussing on uniqueness and aesthetic appeal. Entrants will be required to design an innovative light that utilises solar power and will improve the lives of struggling South Africans.

CONCEPT

The Solis light allows for optimum sunlight absorption at 30 and 45 degrees Celsius, North, as well as comfortable lighting angles with its adjustable head. A cool LED light was selected to stimulate the brain during study, as opposed to a warm light which encourages relaxation. The Lithium Thionyl Chloride Batteries and the LED Driver are stored in the circular base of the light.





How long the new coronavirus can live on surfaces

SURFACE	LIFESPAN OF COVID-19 VIRUS
Paper and tissue paper**	3 hours
Copper**	4 hours
Cardboard*	24 hours
Wood**	2 days
Cloth**	2 days
Stainless steel*	2-3 days
Polypropylene plastic*	3 days
Glass**	4 days
Paper money**	4 days
Outside of surgical mask**	7 days

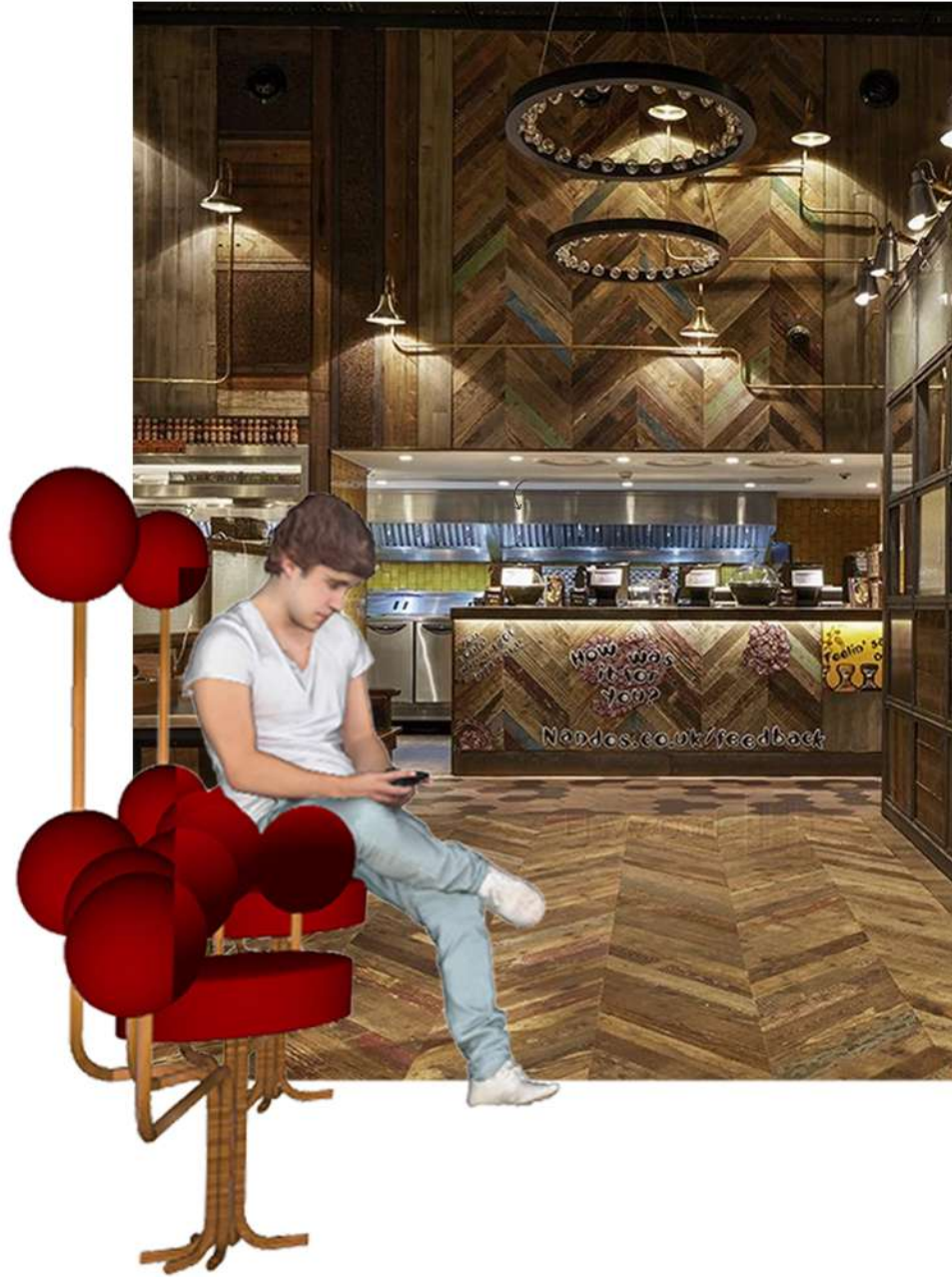
Receptive

BRIEF

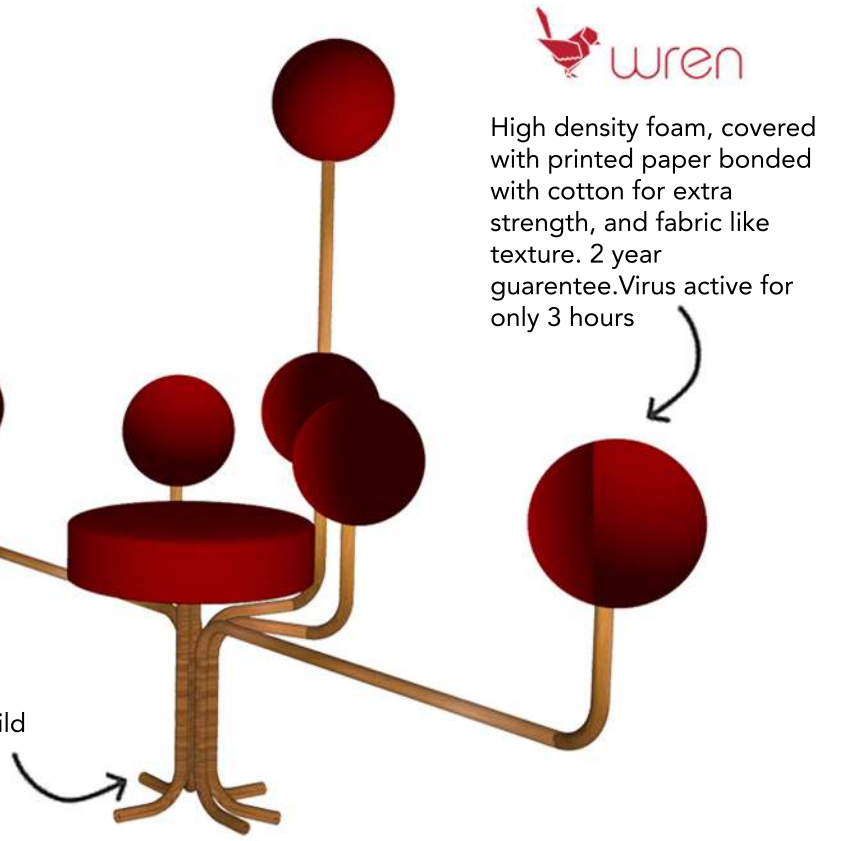
The current spread of the COVID-19 pandemic has left much of the world with no choice but to maintain social distance. This will eventually pass, however, it will leave its mark on society, and for the foreseeable future, even once we have attened the curve and lifted lockdowns, it is likely that a level of social distancing will remain. Every Nando's Casa has a waiting bench for patrons to sit on while they wait for their take-away orders. What should this bench look like in the age of social distancing? How can it be easily adapted once the pandemic fully subsides and we can safely sit together once again. We're calling on all aspiring furniture designers to design a show-stopping bench, a reminder of the resilience of the African spirit, and a celebration of Southern Africa's ever-evolving and eclectic design aesthetic.

CONCEPT

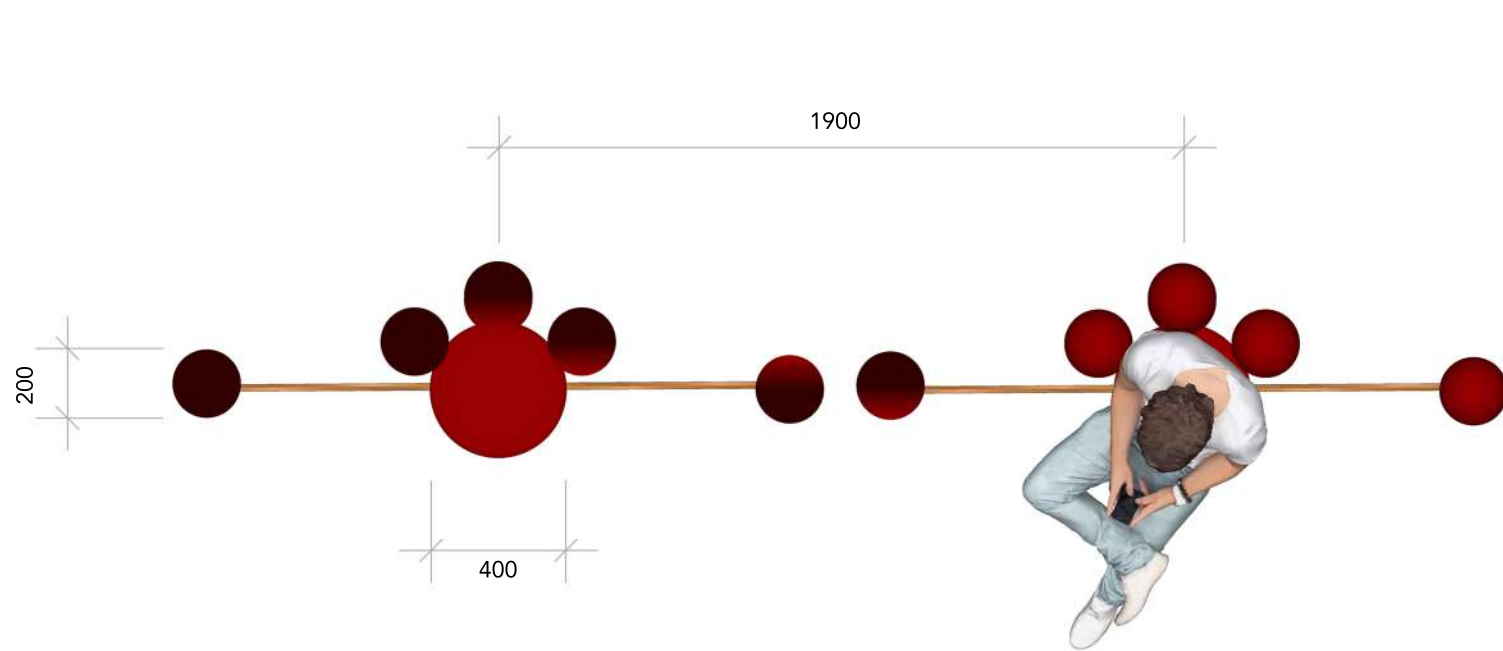
During the worldwide pandemic we are bombbarded by the media with the image of the corona virus dipicted by a red microorganism with receptors. The form giving of the RECEPTIVE bench was inspired by this universal visual language. The object acts as more than just a functional piece of furniture, or tool to implement social distancing, it also promotes awareness. Research available about the lifespan of the COVID-19 virus on different surfaces has inspired my choice of materials. Aiming to use materials which allow the shortest lifespan of the virus, as well as comlimenting the Nandos brand and existing colour scheme. Partnering up with a local business called Wren, to support small businesses during the pandemic.



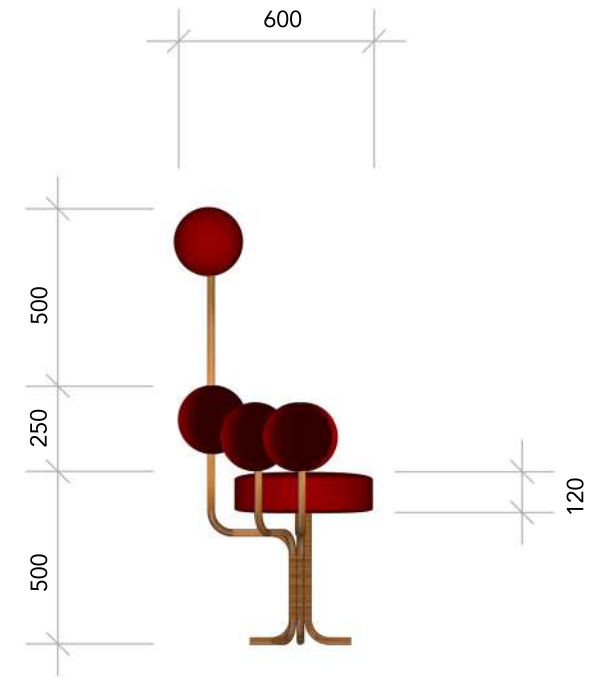
22 mm copper coated, mild steel base. Virus active for only 4 hours.



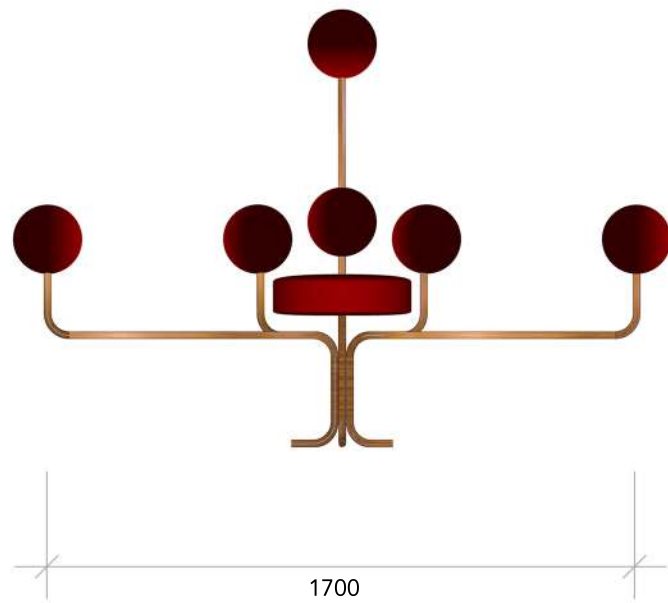
High density foam, covered with printed paper bonded with cotton for extra strength, and fabric like texture. 2 year guarantee. Virus active for only 3 hours



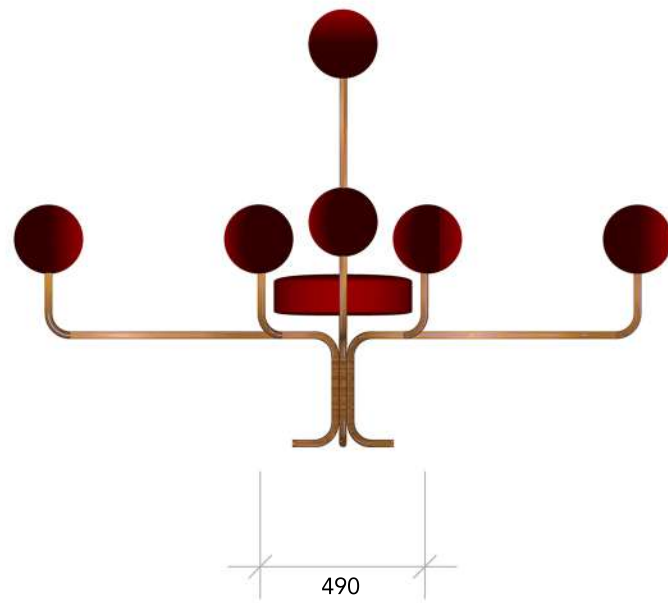
PLAN VIEW



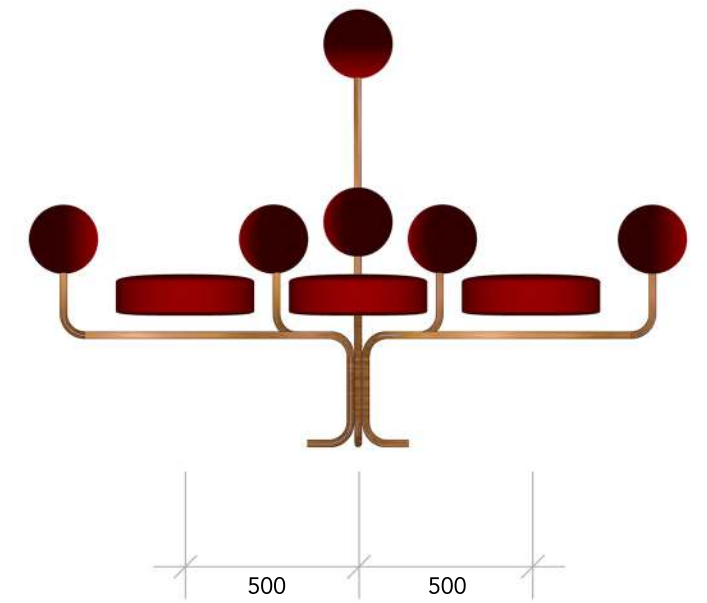
SIDE VIEW



FRONT VIEW



BACK VIEW



POST SOCIAL DISTANCING



Crete

BRIEF

To design a set of 2 to 3 planters that encompass the look and feel of Plantr's aesthetic. The set must contain a size variety. The planters should be as environmentally friendly as possible, following the guideline by the Green Building Council SA. The maximum of 3 materials may be used (excluding fixtures). Each planter in the set shall not be smaller than 400mm (wide) x 400mm (deep) x 600mm (high). Each planter in the set shall not be larger than 1400mm (wide) x 600mm (deep) x 1200mm (high). The manufacturing cost must not exceed R4,000 Incl. VAT. The planters must be designed to fit our self-watering liners.

CONCEPT

When timber, a product of nature is processed it creates a waste product, sawdust is then transformed back into a version of its creator, a planter which will then house another form and generation of nature. This illustrates the idea that through design transformation, "something" can sustain itself or the next generation or yield of itself.

"Why we love wood. It's good for your health and well-being, here's why... It mimics the effect of spending time outdoors in nature. Wood makes humans generate feelings of natural warmth and comfort. Resulting in: Lowered blood pressure, Reduced stress & anxiety and Increased positive social interactions." - Plantr

By combining natural waste with modern materials enhanced by technology, the aim of the design is to bring delight through the marriage of man and nature as the planter captures the essence of harmony and peaceful co-existence.

MATERIALS

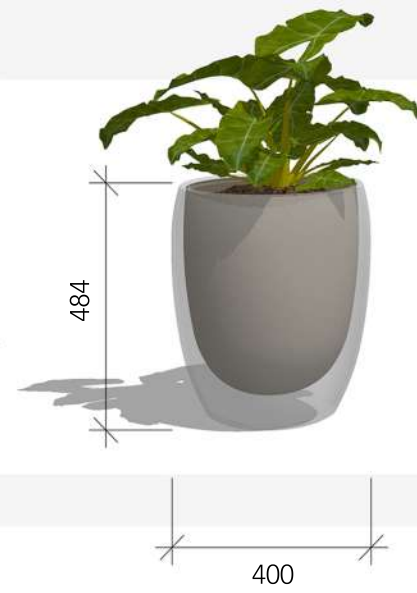
Glass is one of the most prevalent waste resources and can be recycled infinitely, without affecting the quality. South Africa consumes more than 3.1 million tonnes of glass a year, of which two thirds is reusable and can be diverted from landfills. There are more than 3,000 bottle banks strategically placed in cities throughout South Africa. This waste glass is collected by local, independent registered waste collection agents and sold back to the glass packaging industry, making it an easily obtainable material. Recycled glass is sorted by colour, and washed to remove any impurities. It is then crushed and melted, then moulded into a new product.

Cement production amounts to a whopping 8% of global greenhouse gas emissions. A lighter and more energy-efficient version of concrete uses sawdust as a component to make it lighter and cheaper. Timbercrete is made of sawdust, cement and water. It requires much less cement than concrete making it 2.5 times lighter than clay or concrete and is extremely durable, with a lifetime of 100 years. Sawdust which equates to 10-13% of each log produced, is a waste product in the timber industry which is either burnt or left to decompose. The large timber industry produces large amount of sawdust, making it an affordable and readily available product.

Large Planter



Medium Planter



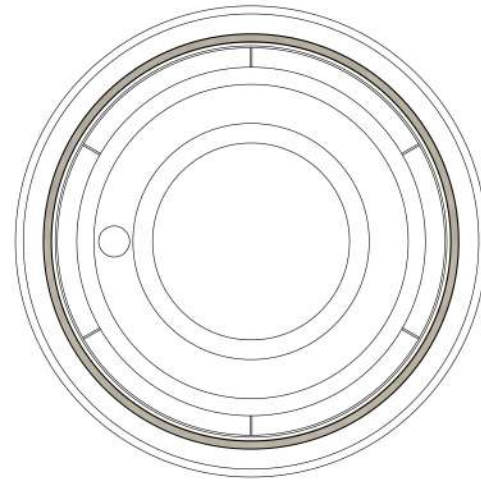
Large Round Self-Watering Liner
400 (D) x 325 (H)



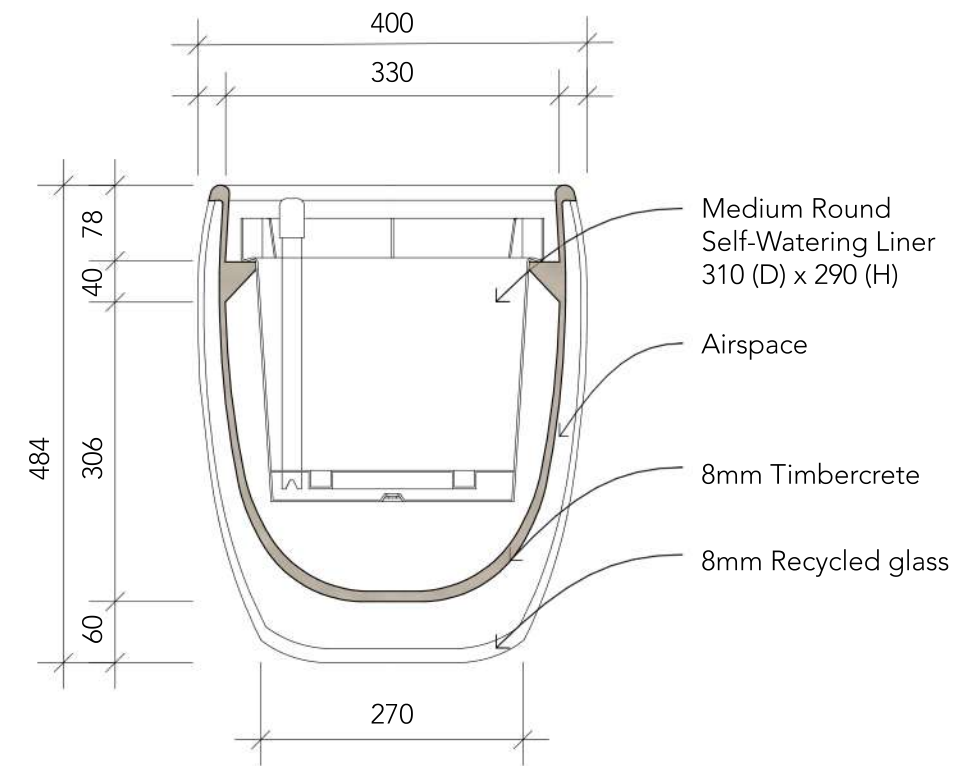
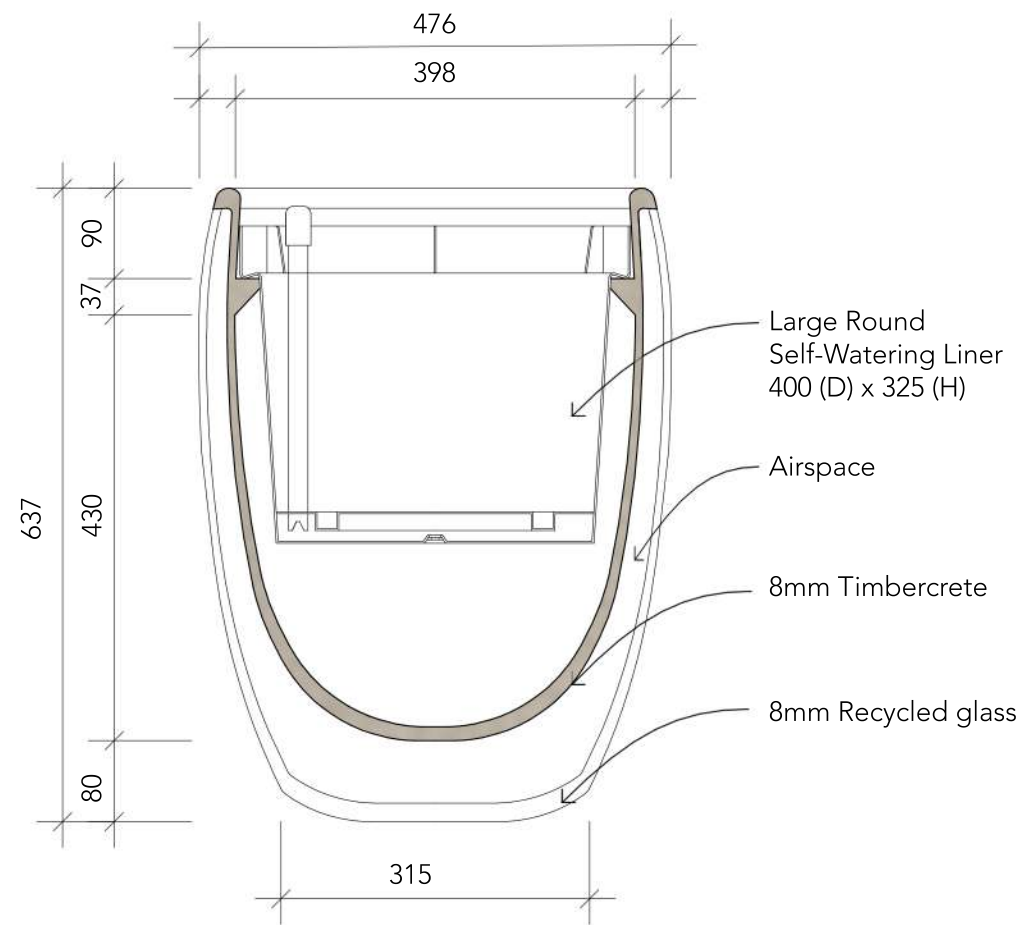
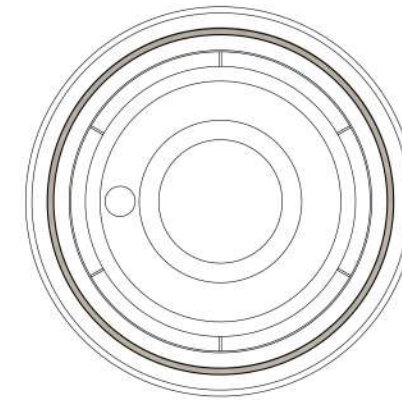
Medium Round Self-Watering Liner
310 (D) x 290 (H)



Large Planter Plan



Medium Planter Plan



Large Planter Section

Medium Planter Section

Experience

Social Cause

Millenials

Retail



PG Bison 2020 Umbona

BRIEF

The PG Bison 2020 Competition Brief was to design a retail store that aligned with the values and passions of millenials as well as being closely linked to a social cause. “Younger consumers expect brands to align with their own values and passions. They spend time online researching the benefits of products, and their impact on the environment, using peer reviews and opinions as a valuable source of information, before making a decision. Shopping is seen as a social activity rather than a chore. It is about the user experience and time spent with friends, more than about the product. Brands must focus on and anticipate these customer needs if they are to survive into the future, especially considering young people will grow to represent more of the market.”

CONCEPT

“Umbona” meaning maize in Xhosa, is a brand that designs, bespoke sustainable products made from the byproducts of maize, while sustaining families in the nearby Xhosa communities of the Eastern Cape. Maize is an easy to grow crop, that thrives in diverse conditions, making it a sustainable crop.

The initiative provides an individual, with the means to make use of their existing skills and empowers them to feed their family. Registered members are provided with a basic Agricultural starter pack including, maize seed, organic fertilizer and tools, as well as providing the community with an additional water source. These farmers are then required to grow the maize, and return a percentage of the harvest back to “Umbona”, the rest may be consumed to fight hunger in poorer communities.

While the men of the community grow the crop, the “Umbona” brand works closely with the women of these communities to harness and develop their tradional skills to design sustainable, bespoke fashion, furniture and liefestyle products. Visitors are welcomed by a maize installation on arrival, and can visit the women of the community at work on the first floor.

Maize can be used to brew beer and whiskey, therefore “Umbona” has colabored with Richmond Hill Brewing Company, from it’s neighbouring site to produce a new craft beer and whiskey, which is served at the umbona tasting room.

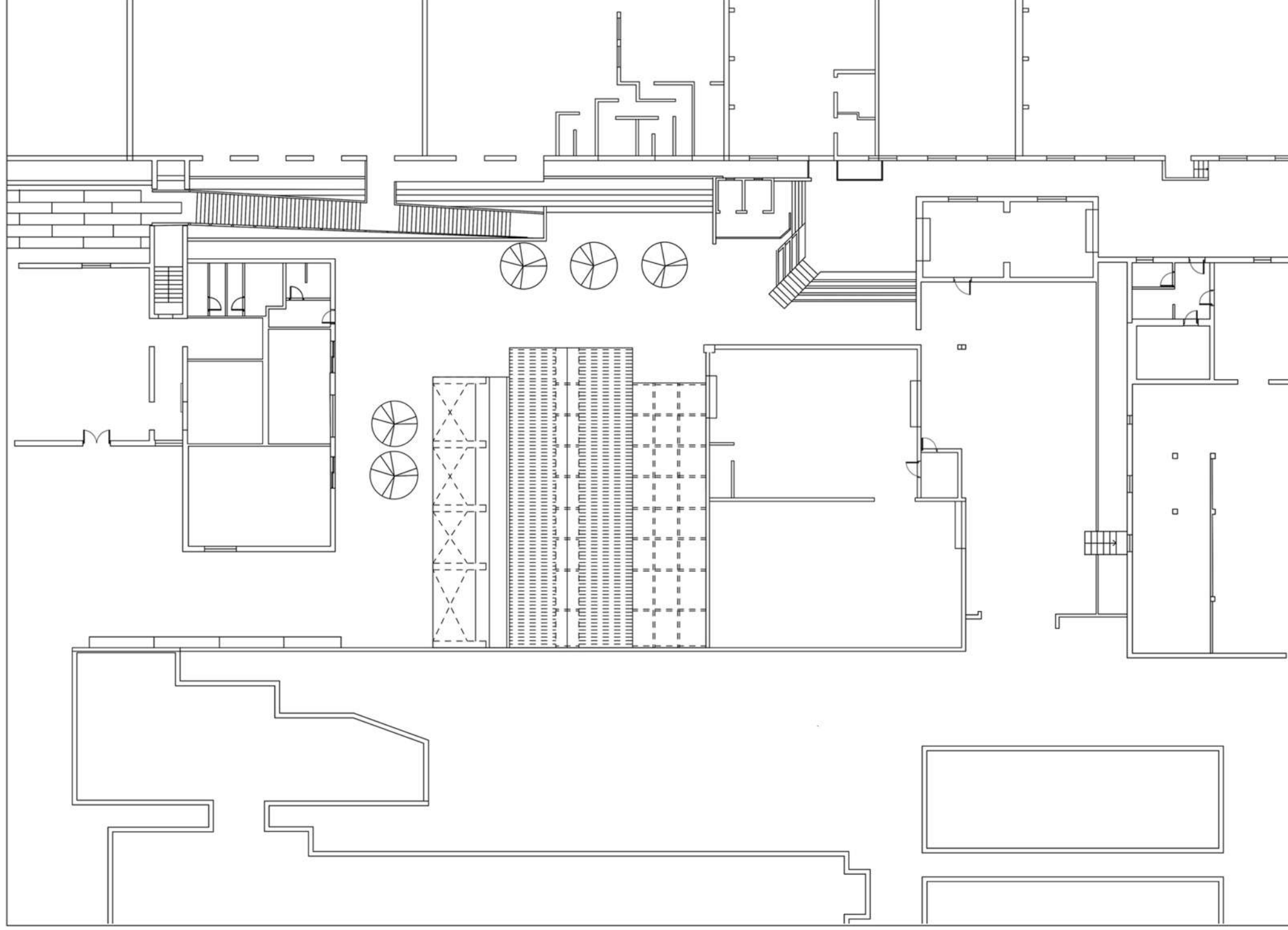
Other products made and sold by “Umbona”, made from the byproducts of maize include: Yarn and Corn fabric, which requires half the amount of energy to produce compared to organic cotton, which our fashion garments are made from. Natural fibres are used to produce, woven rugs, baskets, lights, furniture, hats and shoes. Tissue paper & craft paper from which all our biodregradble packaging is made.Organic lifestyle products such as skincare, haircare and soap products, as well as makeup, toothpaste and disposable diapers. Ethanol on which our genorater is run.We have a zero waste policy. All remaining byproducts are transformed into organic fertilizer for the following season’s crop.

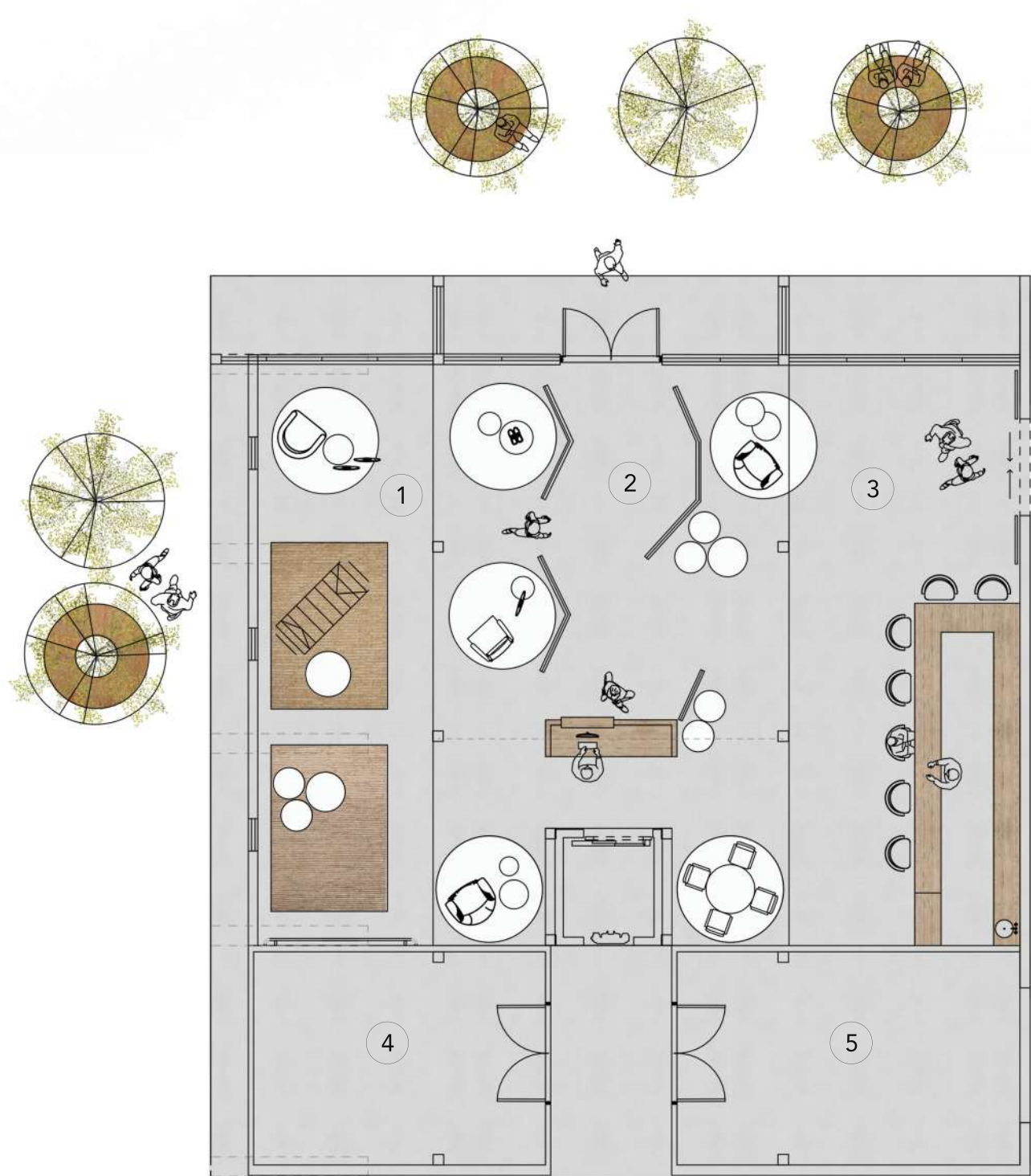


Light Industrial

Beacon of Hope

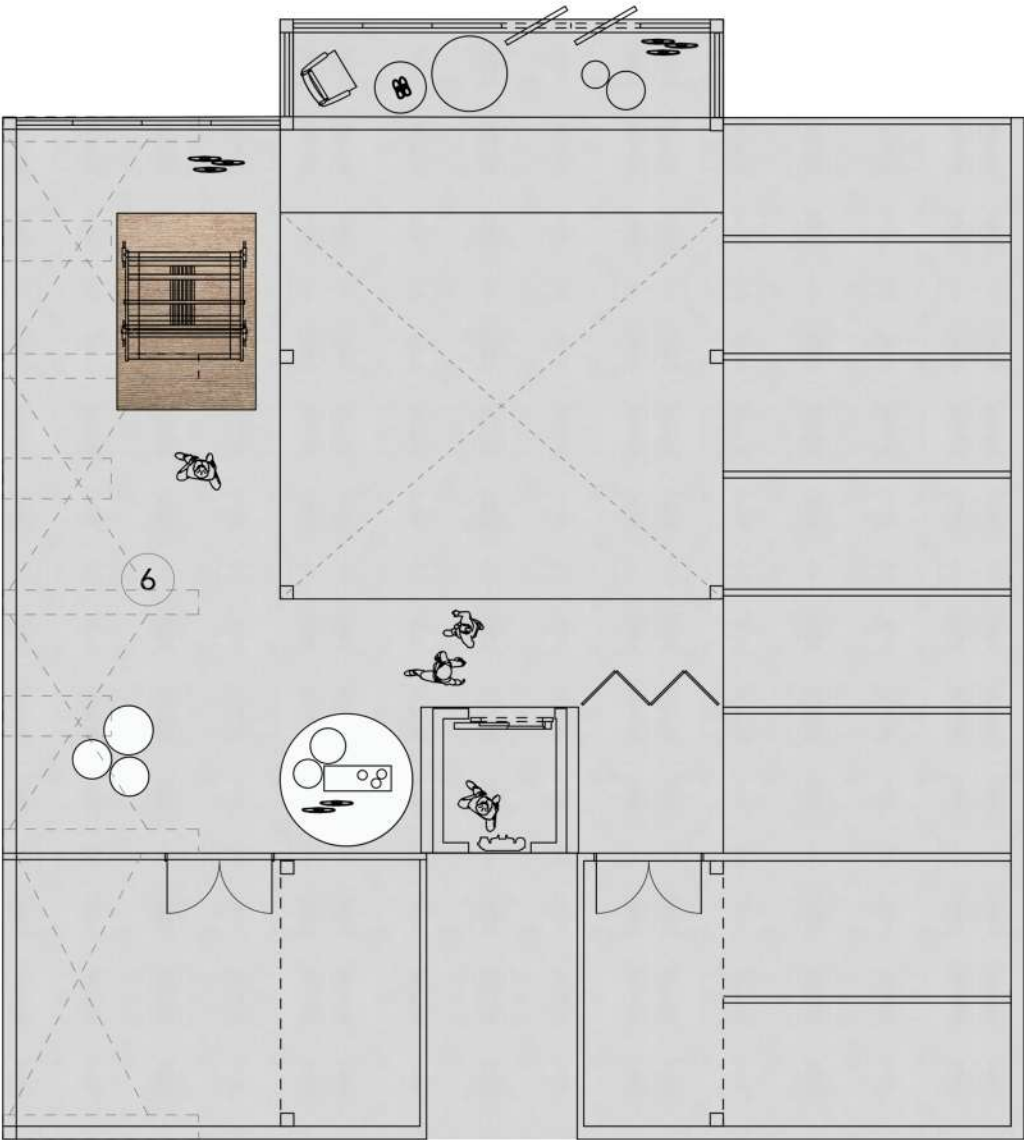
Bakens Valley





Ground Floor Plan (NTS)

- 1
- FURNITURE
GALLERY
- 2
- MAIZE
INSTALLATION
- 3
- BEER &
WHISKEY
TASTING
- 4
- GENERATOR
ROOM
- 5
- STORAGE
- 6
- XHOSA
WOMEN
COMMUNITY
INTERACTION



First Floor Plan (NTS)



Light Industrial Bakens Valley Approach Exterior



Conservatory Maize Installation Retail Entrance



Light Industrial Furniture Gallery Tasting Room Retail





Light Industrial Maize Installation Experience Retail



 **PG BISON**
Iceberg White

Furniture
podiums

Light Industrial

Brewery Colab

Craft Beer

RBHC



Light Industrial

Brewery Colab

Craft Beer

RBHC



PG BISON
Brookhill

Bar



Light Industrial

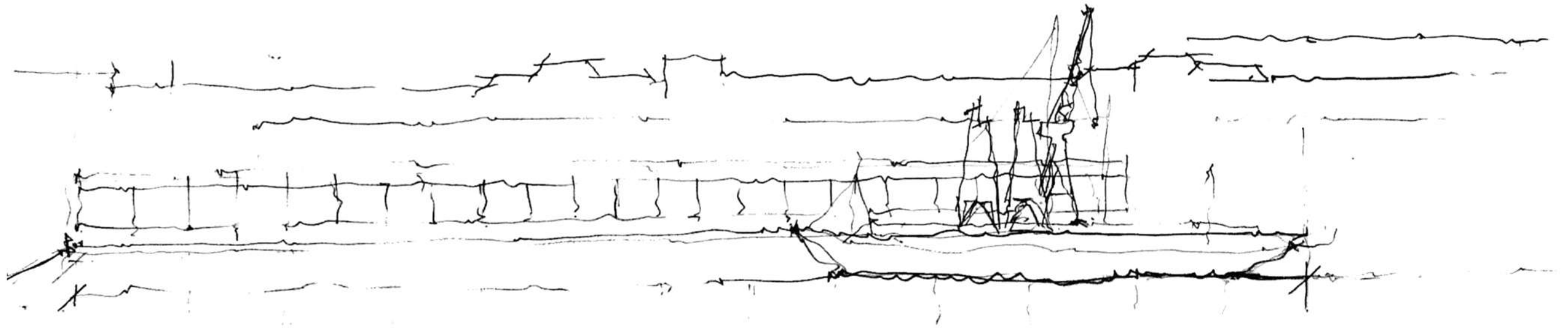
Community Empowerment

Sustainability



Light Industrial Beacon of Hope Bakens Valley Umbona





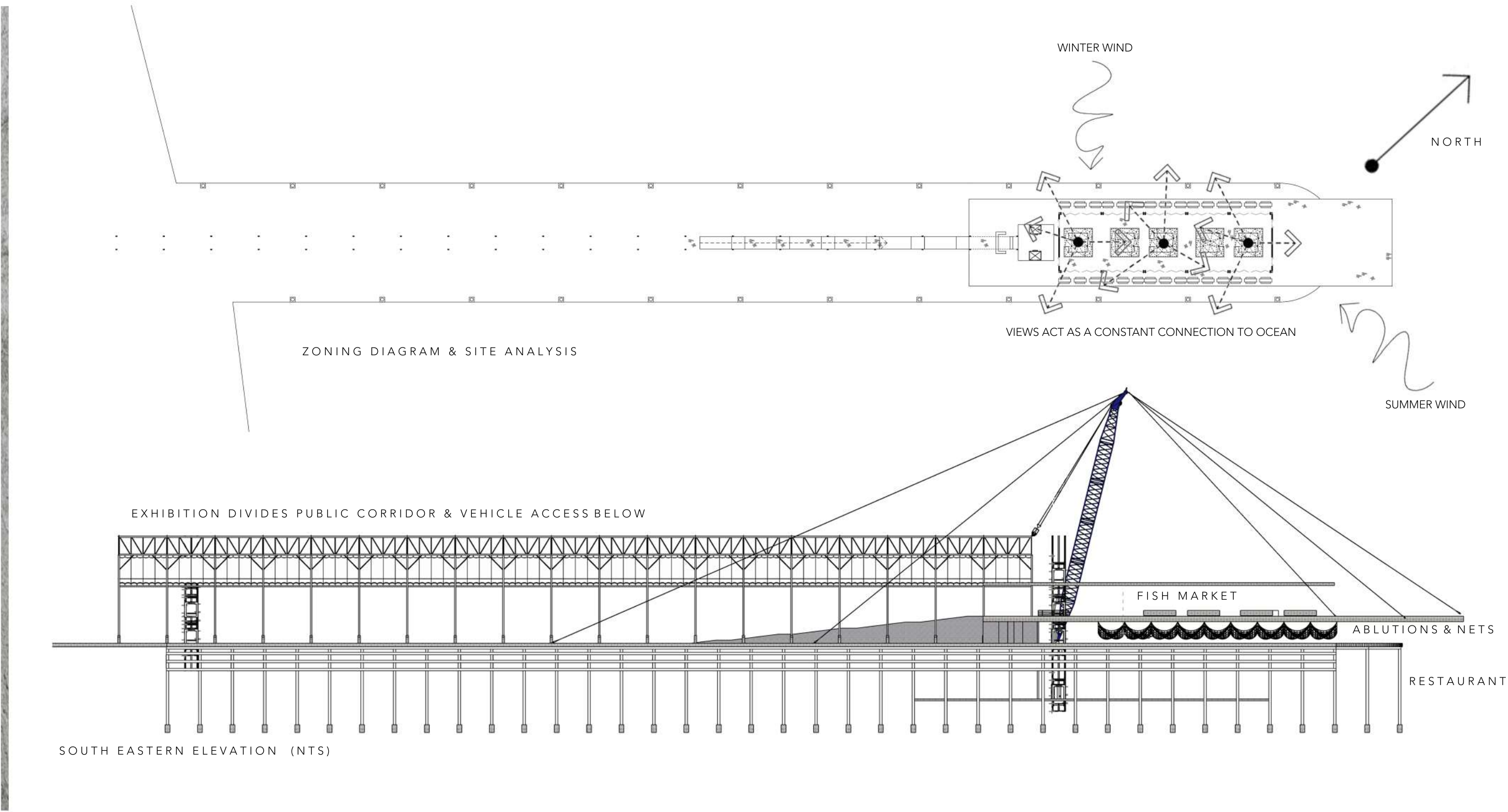
Caesarstone 2020

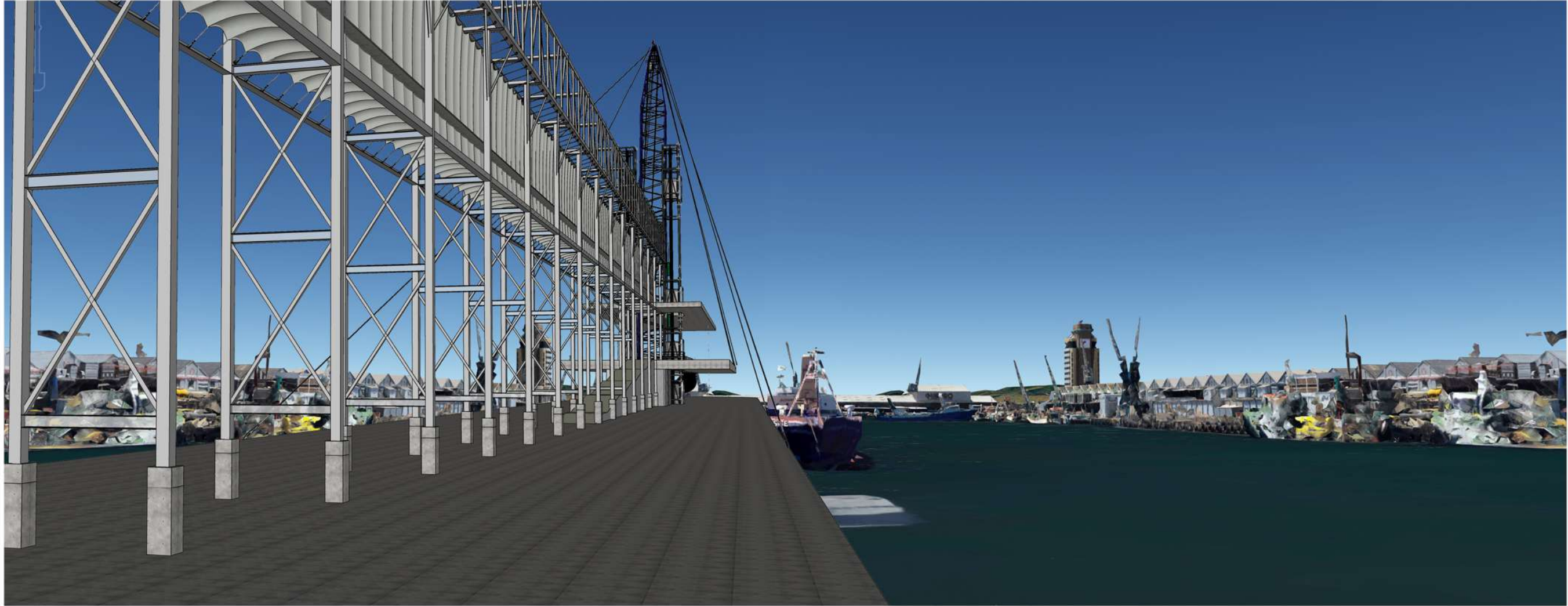
BRIEF

“Adaptive reuse” is a process of taking an old building or structure and repurposing and reusing it for a modern need. Drawing from the concept of adaptive reuse your clients, the V&A Waterfront, are looking to reactivate the Collier Jetty. It straddles the tourist-driven industry provided by the Waterfront mall and The Nelson Mandela Gateway to Robben Island, and the industrial function of boat repair at the fish quay, as well as several marine and logistical industries. Your challenge is to design a journey along the jetty that houses various programs around the concept of what the historical significance of the jetty was. This would be in the form of a fish market to reignite the industry with an exterior intervention and a restaurant with a specific exterior and interior aesthetic.

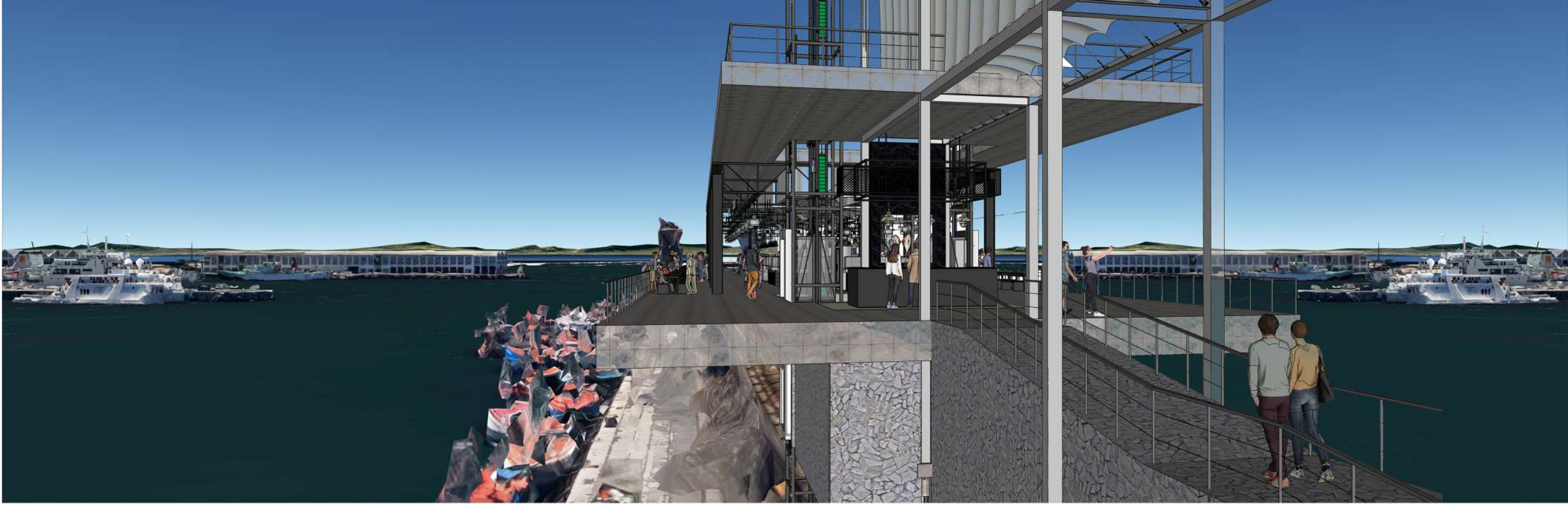
CONCEPT

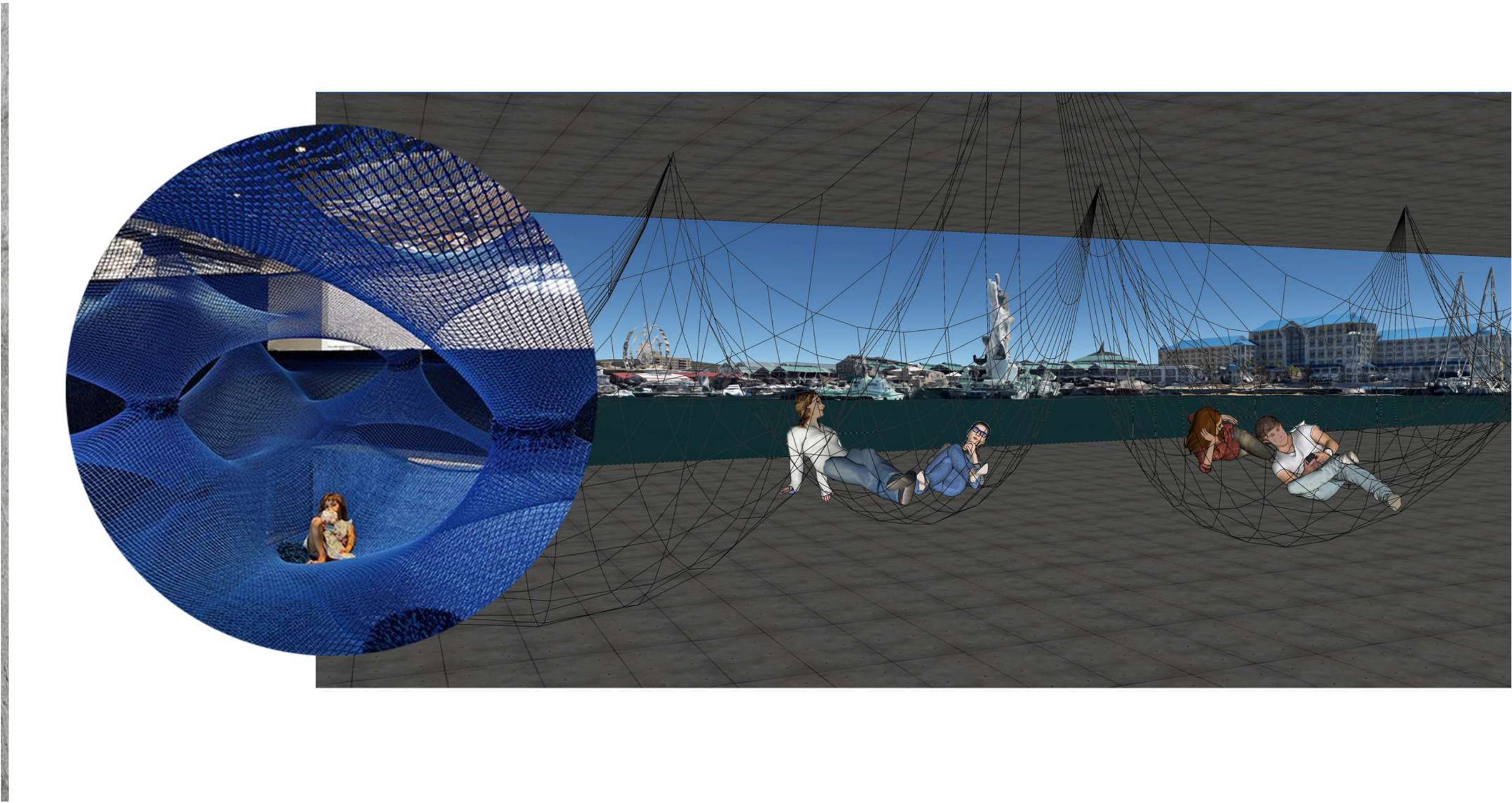
Taking in special consideration the existing typologies of the complex and historically rich site. I decided to expand, transform and deconstruct these typologies, so that their spirit lives on in either its existing or new form. Special attention is paid to the immediate environment, allowing the user to be constantly aware of his or her direct and influence on the environment. Symbolizing the influence of man on nature and vice versa. The user's journey begins by embarking along the jetty through either the suspended exhibition in the gantry or along the pedestrian passage on the South Eastern side of the jetty. The user will then transcend to the cantilevered sustainable fishmarket via the ramp or elevator shaft, making the site universally accessible. An additional hidden gem is the deep sea restaurant, here man is confronted by either the beautiful coexistence or destruction between man his environment.











Adaptive Reuse

Collier Jetty

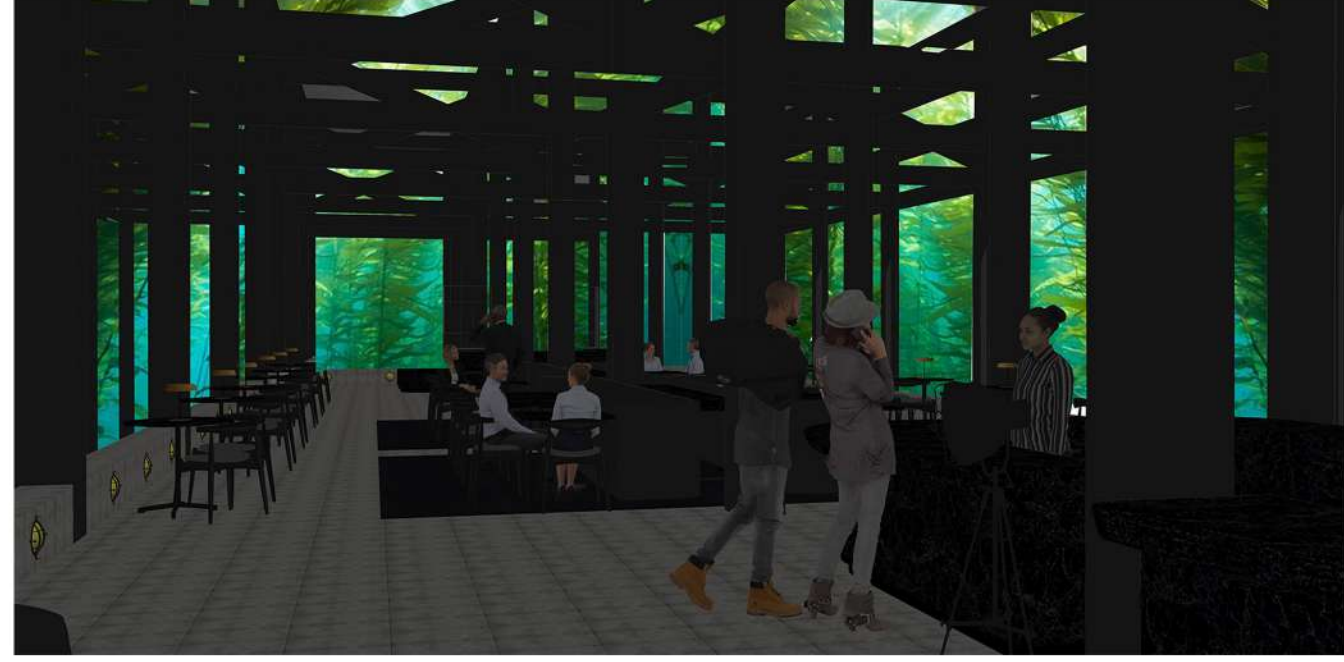
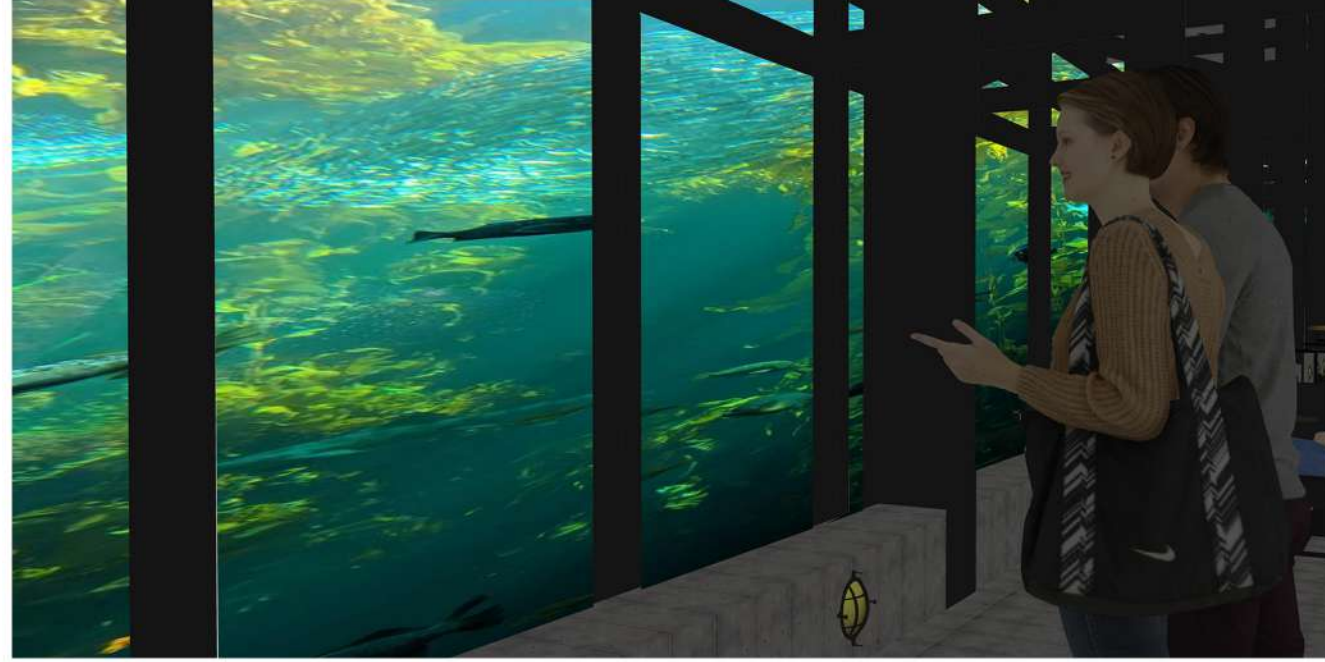
Sustainable Fish Market



Adaptive Reuse

Collier Jetty

Deep Sea Restaurant



Minimalist

Light Industrial / Residential

Modern Japanese



Boxed

BRIEF

Your client is a well-known young entrepreneurs and influencer in South Africa. He has a passion for modern Japanese architecture & interiors. The client had appointed Japanese Architect Yasunari Tsukada to do basic drawings based on his spatial requirements. The communication barrier was however too big between your client and the architect. He has asked you to identify a site and design a modern Japanese inspired home incorporating clever spatial planning whilst maintaining a minimalist aesthetic for him and his partner.

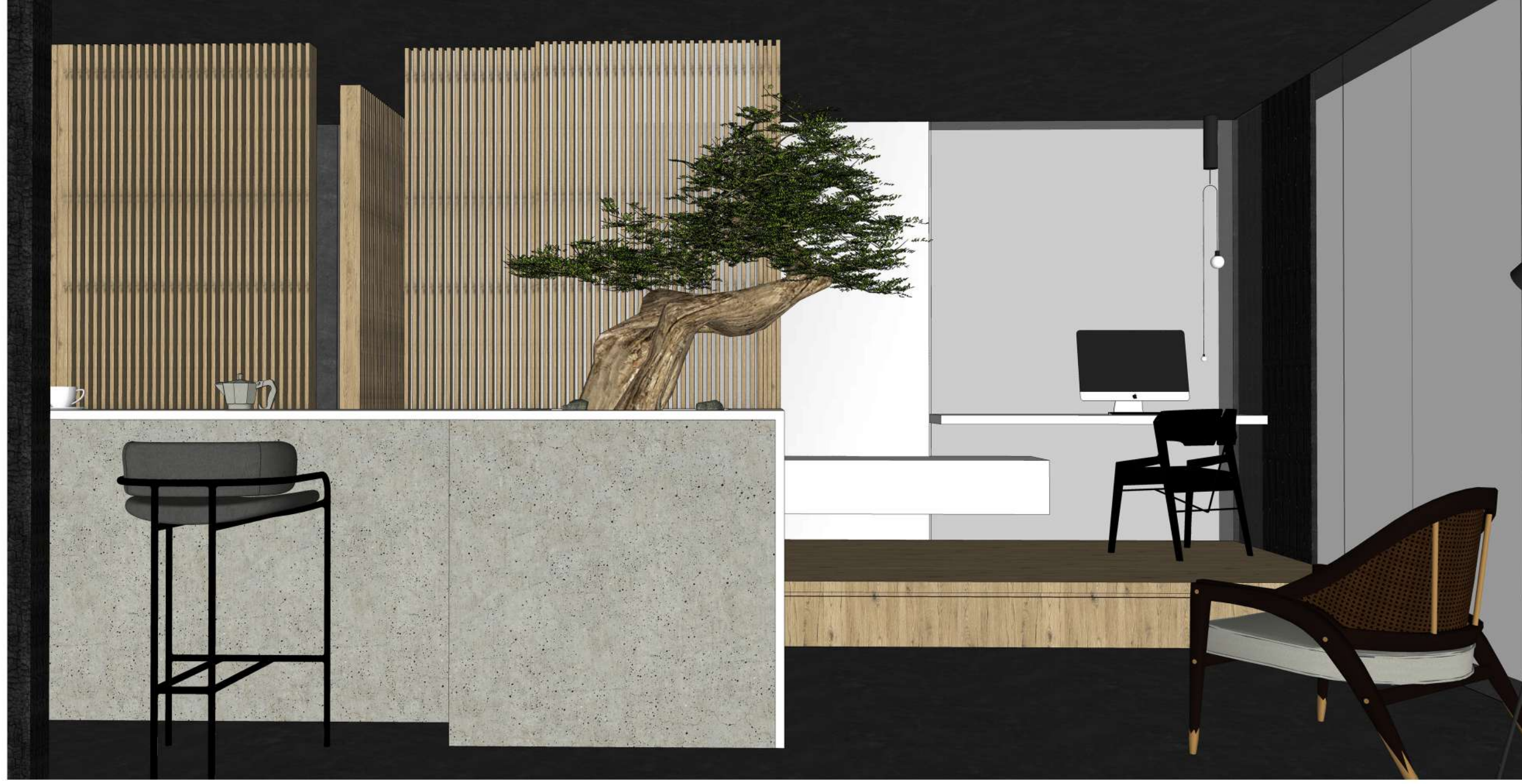
CONCEPT

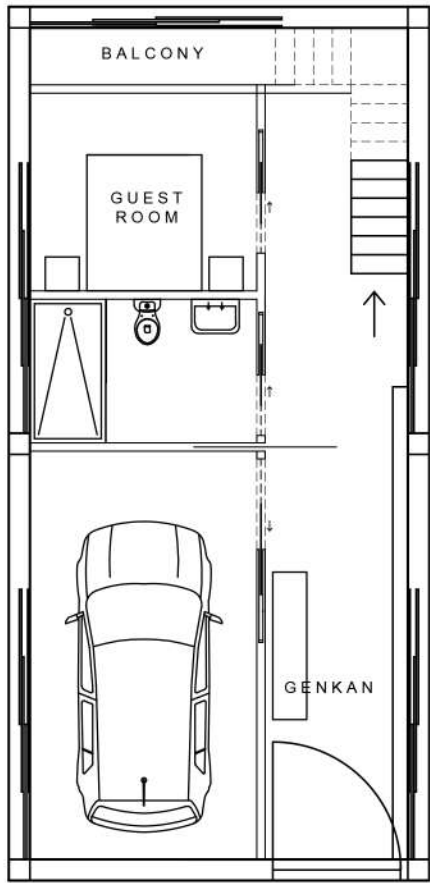
Japanese Architecture consists of many modern design principles which can be related back to the works of the great Modern Architects such as Mies van der Rohe and Le Corbusier. I have therefore adopted the concept of plan libre and the domino structure to free up space on the interior, as well as allow for mobile free standing non load bearing walls on the interior, similar to the renowned Japanese screens. I was inspired by the way Japanese architects incorporate many different activities into a single space as well as their sensitive approach to materials. For me the success of Japanese architecture lies in their use and treatment of vernacular materials and their connection to their surroundings.

The exterior of the building is screened with charred timber as well as smokey glass, allowing the client complete privacy and protection from the elements although always being aware and part of the hustle and bustle of the Cape Town City Centre. When the screens are pulled away the building blends into its context as it mirrors the city and surroundings.

A space to live in, A space to work from

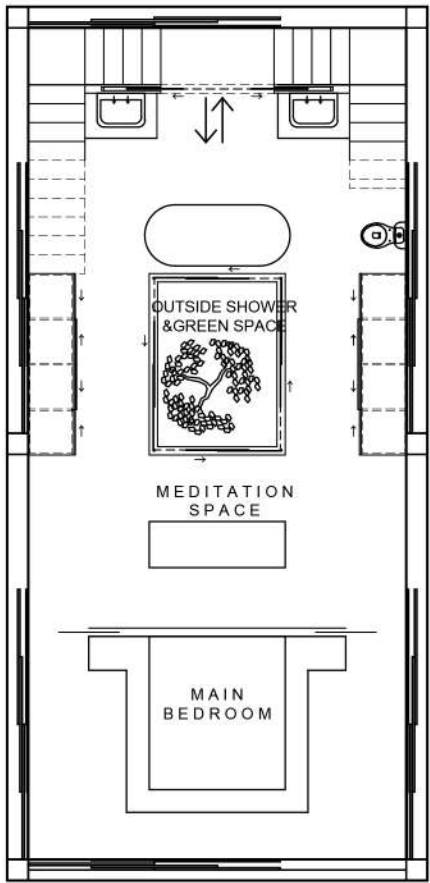
Modern Japanese





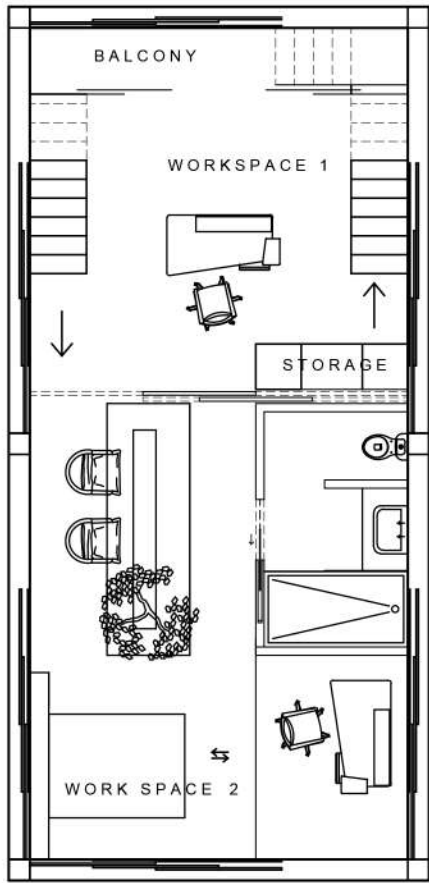
Ground Floor

NTS



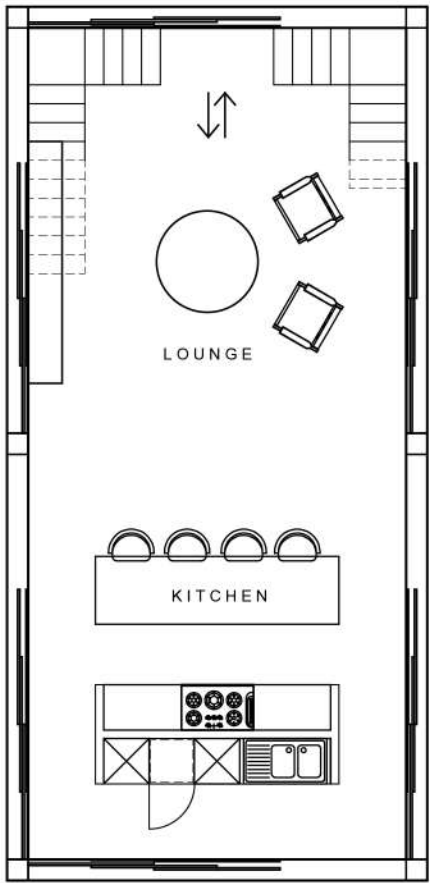
First Floor

NTS



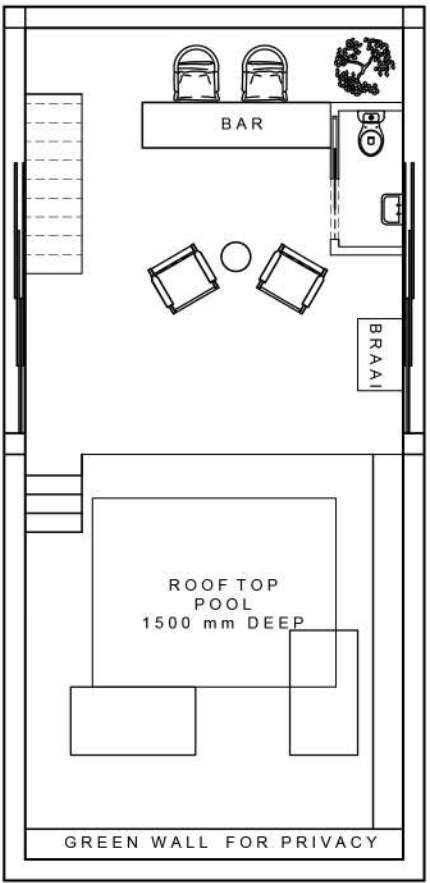
Second Floor

NTS



Third Floor

NTS



Rooftop

NTS



Master Suite

Connection to Nature

Modern Japanese



Meditation Space Connection to Nature Modern Japanese



Master Suite

Modern Japanese Interior

Minimalist



A space to live in, A space to work from

Modern Japanese





Boxed

Modern Japanese Interior

Living Room



Boxed

Modern Japanese Interior

Rooftop



Boxed

Modern Japanese Interior

Rooftop



SIDE ELEVATION
SCALE 1:20

SECTIONAL ELEVATION
SCALE 1:20

DETAIL A
Fin Attachment,
Side View
SCALE 1:5

BACK ELEVATION
SCALE 1:20

FRONT ELEVATION
SCALE 1:20

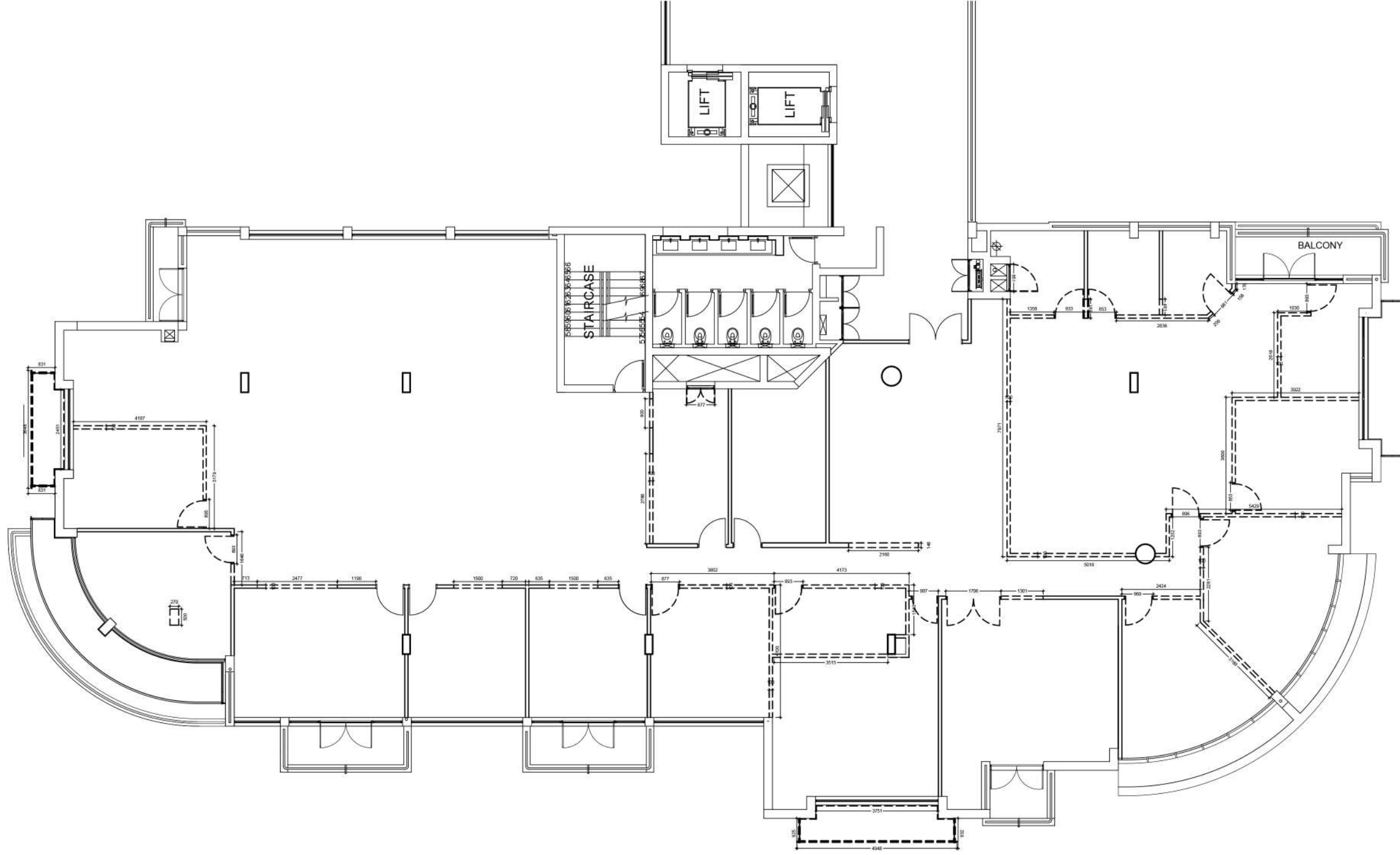
DETAIL B
Fin Attachment
Front View
SCALE 1:5

PLAN VIEW
SCALE 1:20

KEY:

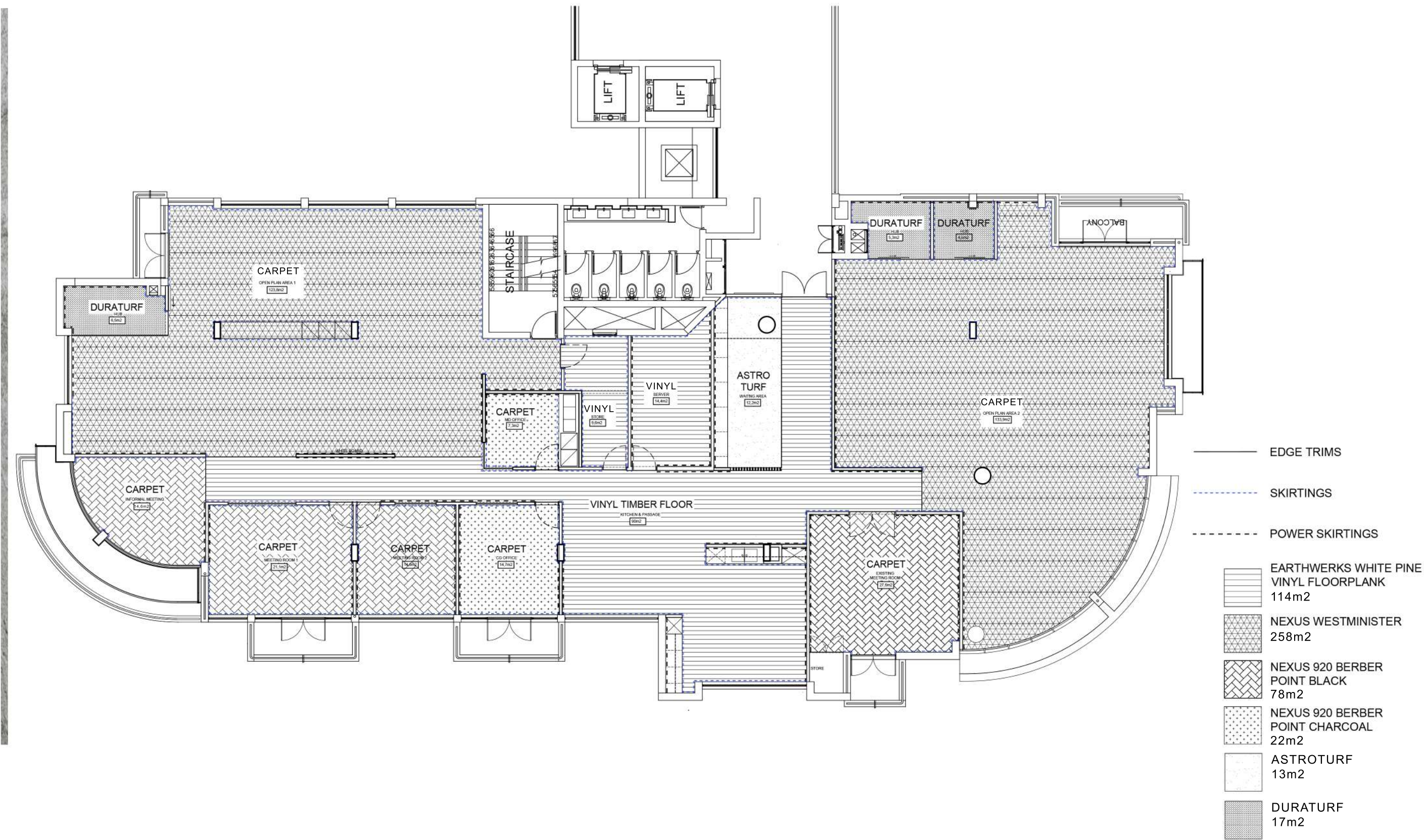


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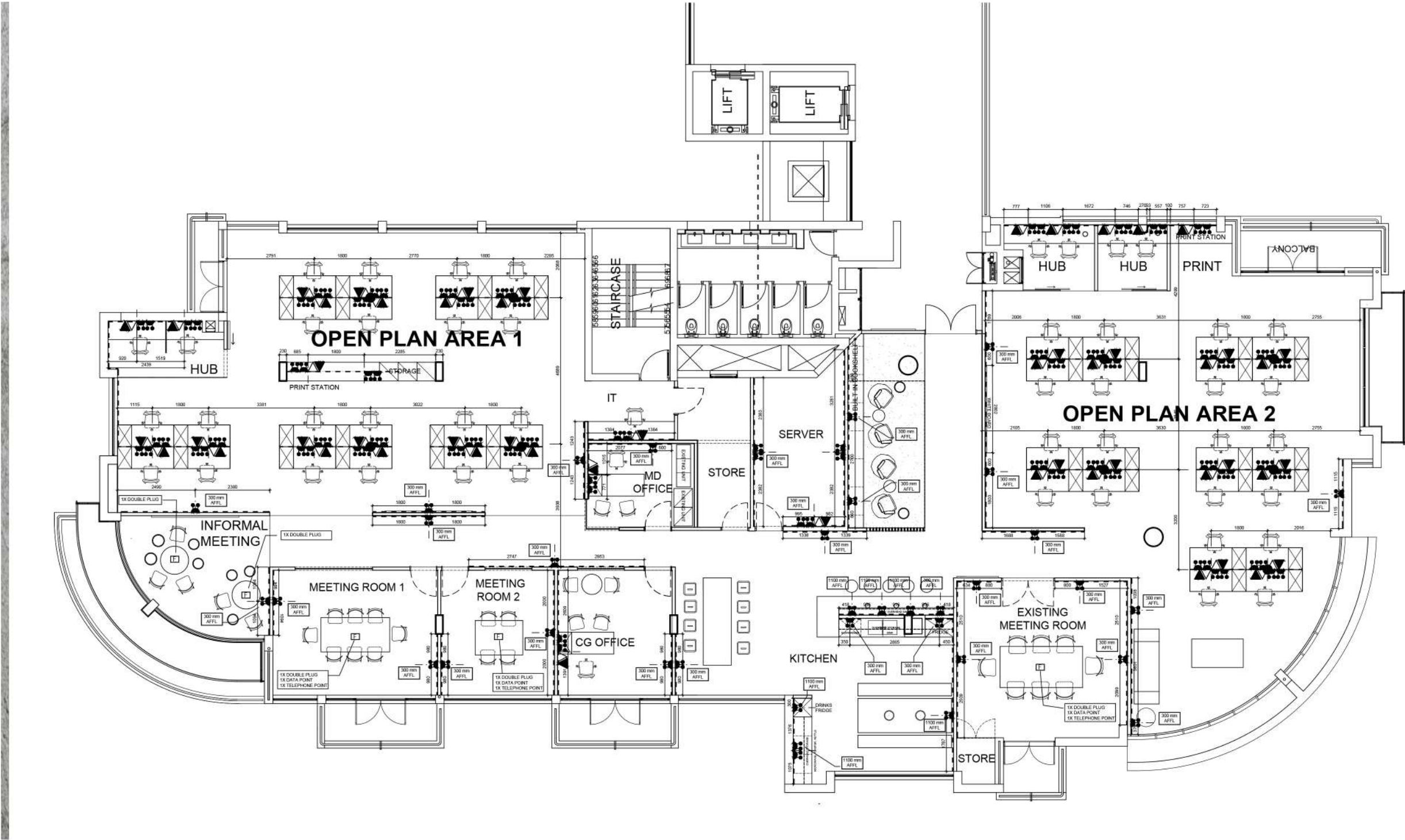


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Floor Finishes Layout (NTS)



Data & Electrical Layout (NTS)

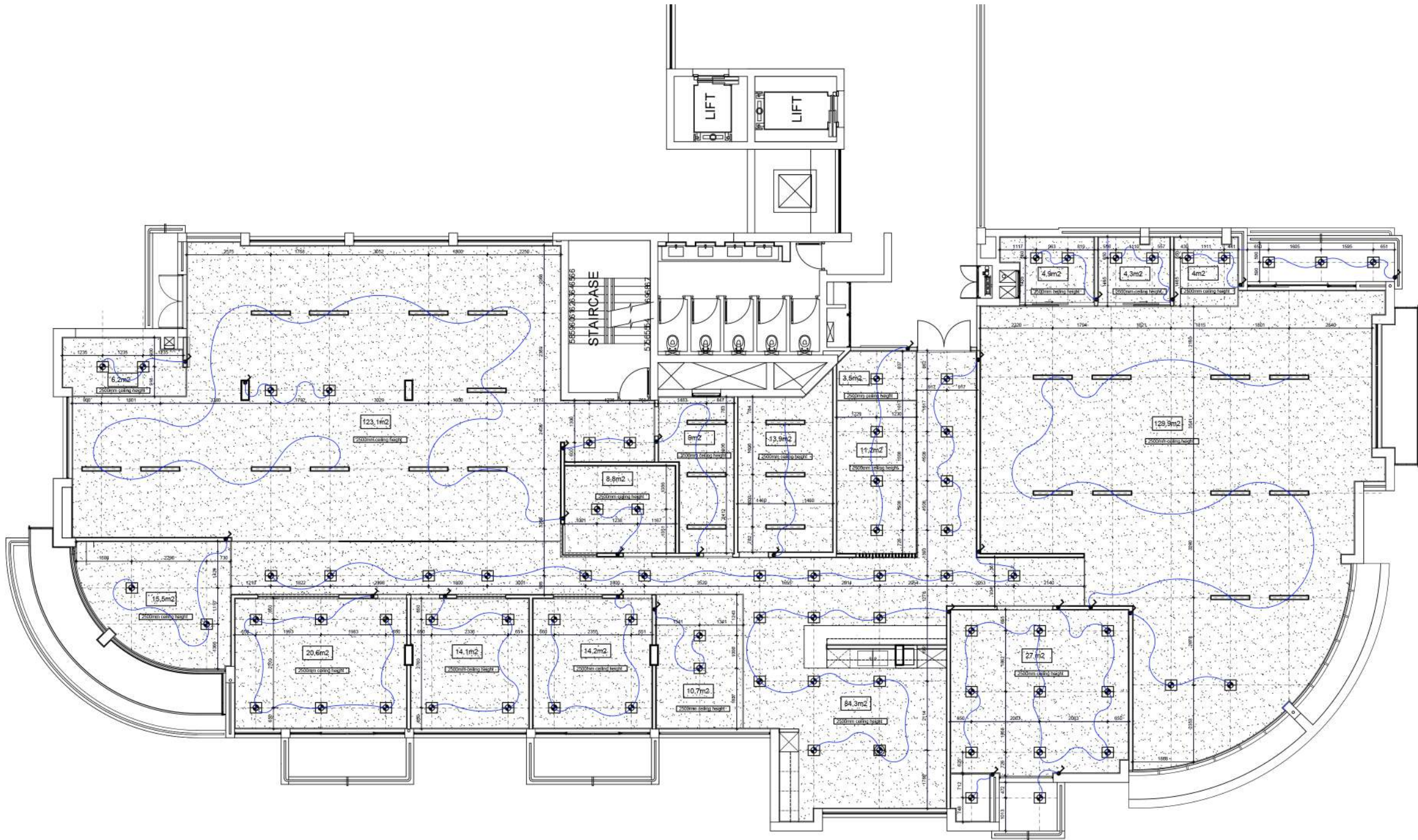


ELECTRICAL OUTLET LEGEND:	
	Electrical Distribution Board
	16A Double Switched Socket
	16A Single Switched Socket
	Data Point
	Telephone Point
	New perimeter power skirting by landlord
	New 150mm White Power skirting To be approved by designer prior to installation
	100mm x 100mm Floor box as per spec
	TV antenna point
	power pole to drop down from ceiling tray

NOTE: ALL PLUGS ON WALLS TO BE 300mm AFFL UNLESS IN POWER SKIRTING OR OTHERWISE SPECIFIED.

NOTE: SEPARATE NETWORK CABLE WILL BE INSTALLED BY CLIENTS IT SPECIALISTS FOR THE TELEPHONES. ELECTRICIAN TO PROVIDE BOX FOR THIS ON POWER SKIRTING

Lightintg Layout (NTS)



LIGHTING LEGEND:

	Aluminum recessed down lights. SPEC: white bead round die cast aluminum down lighter with transformer and lamps, CCT normal white. NOTE: all down lights to be on dimmer switches
	Adjustable down lights in box SPEC: down lighter with transformer and lamps in beach box, recessed into ceiling NOTE: all down lights to be on dimmer switches
	Compact Fluorescent's SPEC: single 1800mm compact fluorescent within black powder coated channel surface mounted onto concrete soffit. Braid pipes and cable trays where required for wires.
	Compact Fluorescent's SPEC: single 1200mm compact fluorescent within black powder coated channel surface mounted onto concrete soffit. Braid pipes and cable trays where required for wires.
	Colourful hanging bulb pendants SPEC: entrance large bulbs with colourful cords. NOTE: POSITION TO BE DETERMINED ON SITE WITH DESIGNER
	Switch Spec: CLIPSAL white switches

SKIMMED AND PAINTED PLASTERBOARD
CEILINGS WITH 25mm DOWN PLASTERBOARD
TRIM ALL ROUND. PAINTED WHITE
500m2

