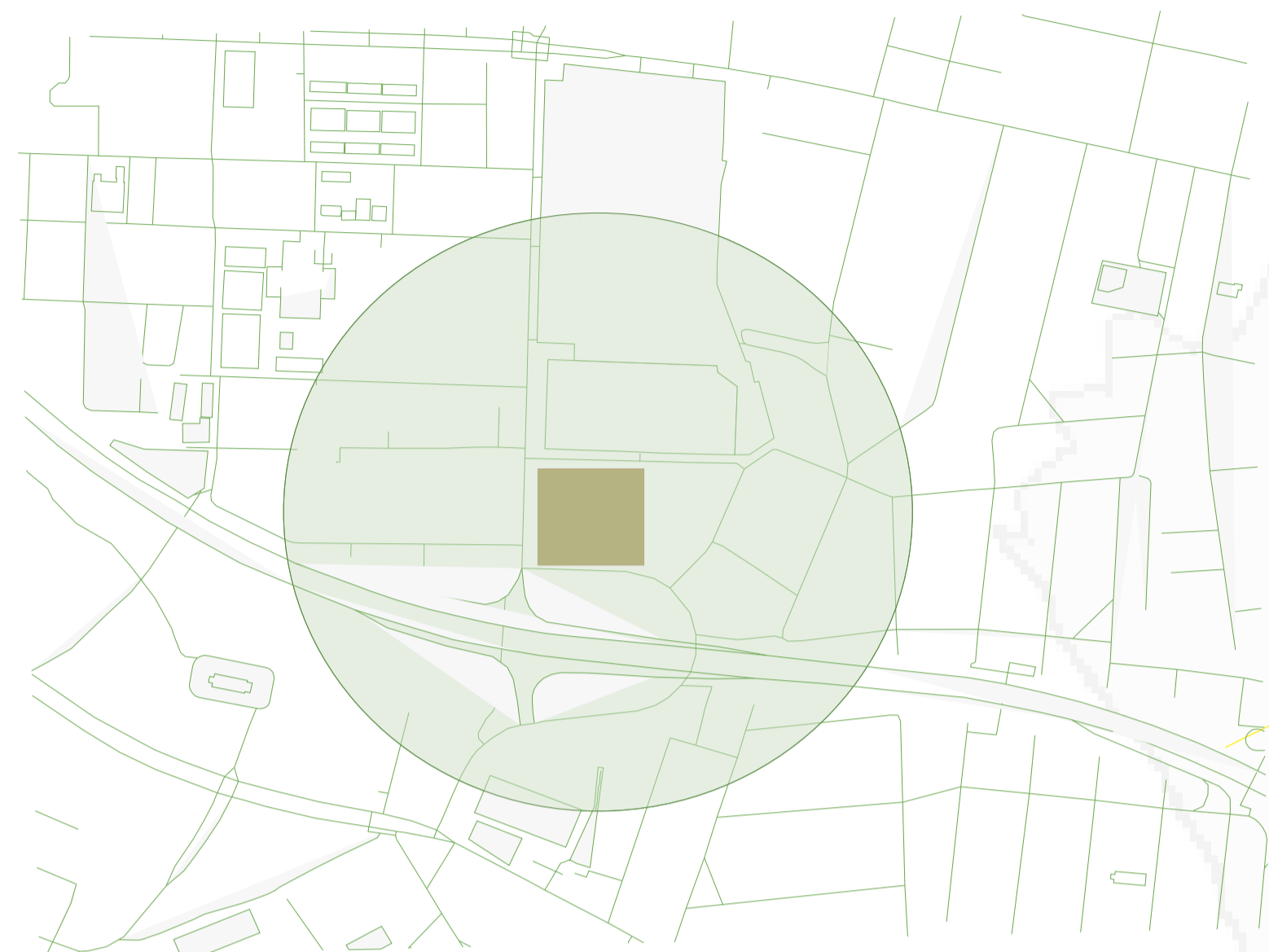


Site Analysis

Site Plan
Scale 1:500

Site Research



Site Location : Searle St, Woodstock, Cape Town

S.W.O.T

Strengths

- Good separation of public and private spaces near the site. Good views of table mountain. Easy access to major routes such as the N1, N2, and M4, as well as rail stations and bus systems

Weakness

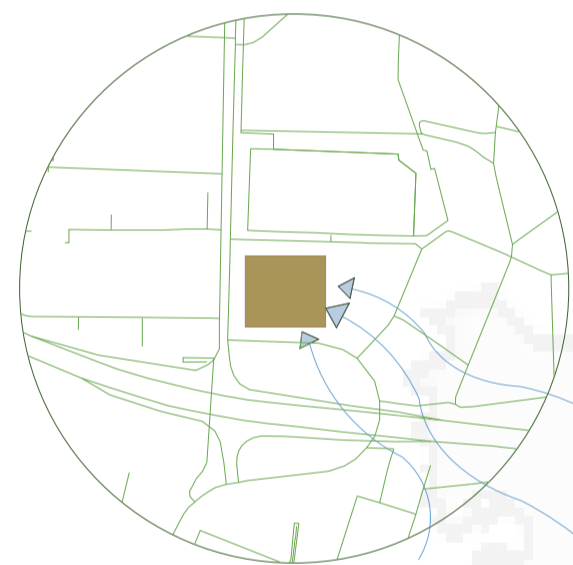
- Proximity to major highways and CBD causes heavy traffic flows during peak hours. Petty crime E.g phone snatching

Opportunities

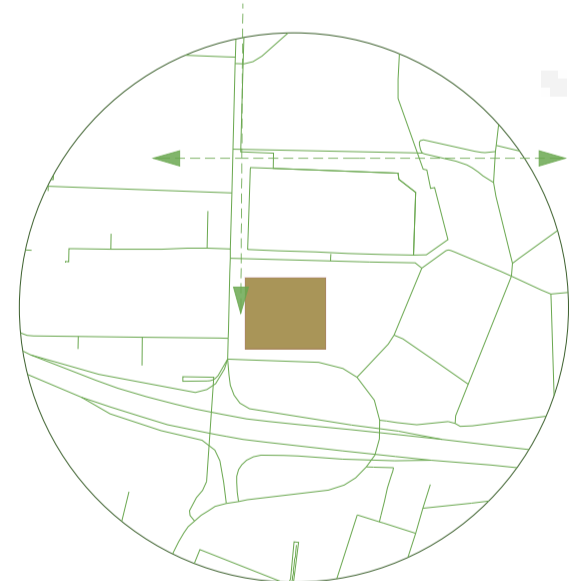
- Opportunities for urban plazas, and community spaces.

Threats

- Crime Activities may discourage investment or pedestrian activity. Noise pollution from nearby highways and industrial areas.



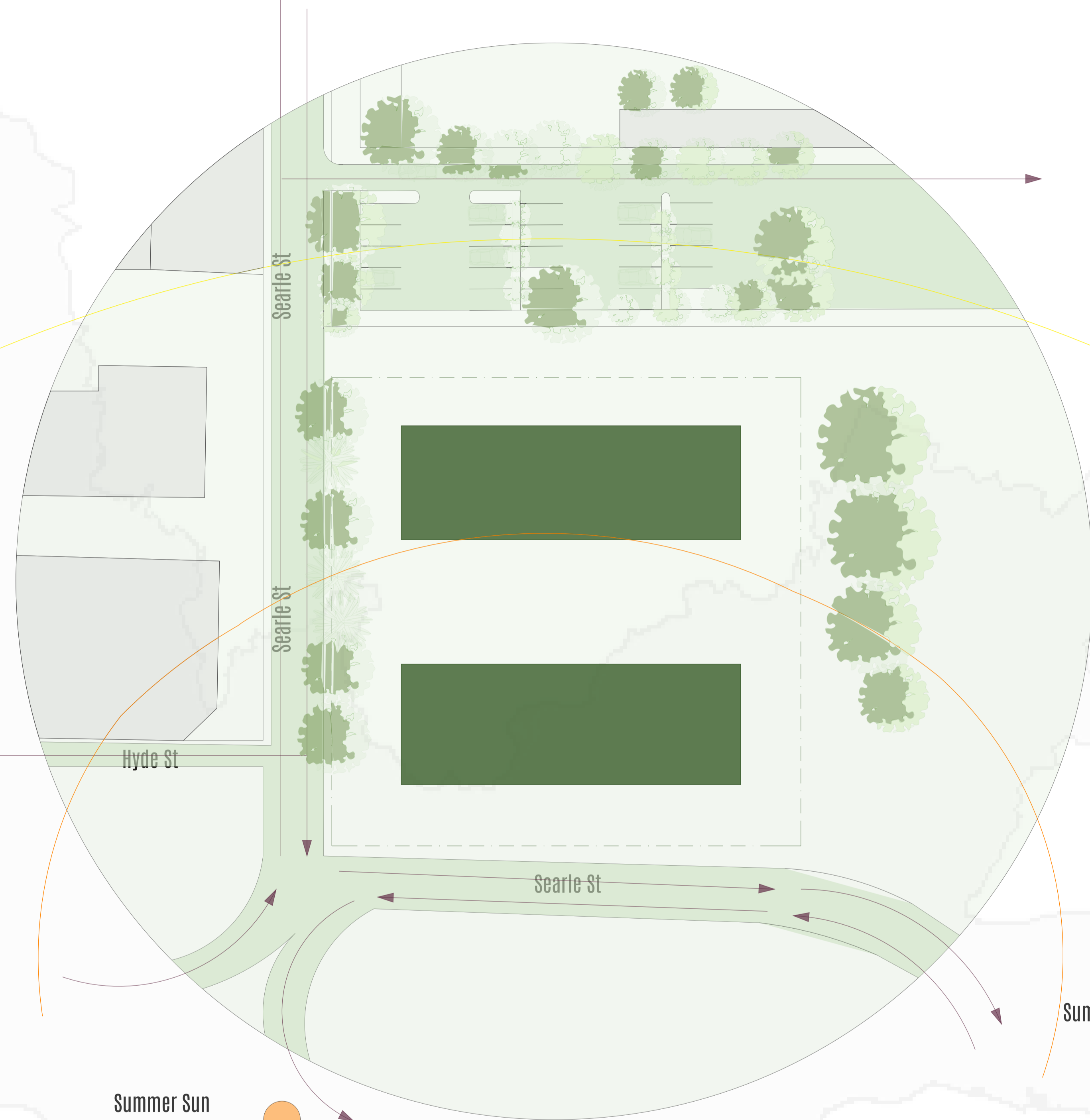
Wind Direction



Pedestrians Traffic



Views



Summer Sun
Winter Sun

Parking

Cross Section



Searle St

Site

Longitudinal Section

Site Plan Legend	
	Proposed building
	Vehicular Traffic
	Existing Buildings
	Vegetation

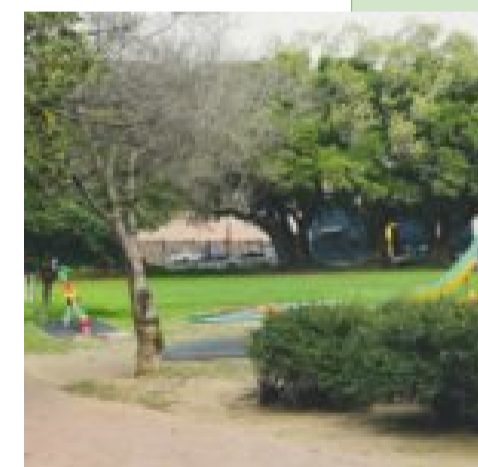
Surrounding Buildings

- From observations made, the site is commonly workspace buildings along Searle St, which makes the area a busy space during peak hours.



Public Spaces

- Trafalgar Park was established in 1905
- Trafalgar Swimming pool established in 1927, contains an Olympic-sized and kid-friendly pool

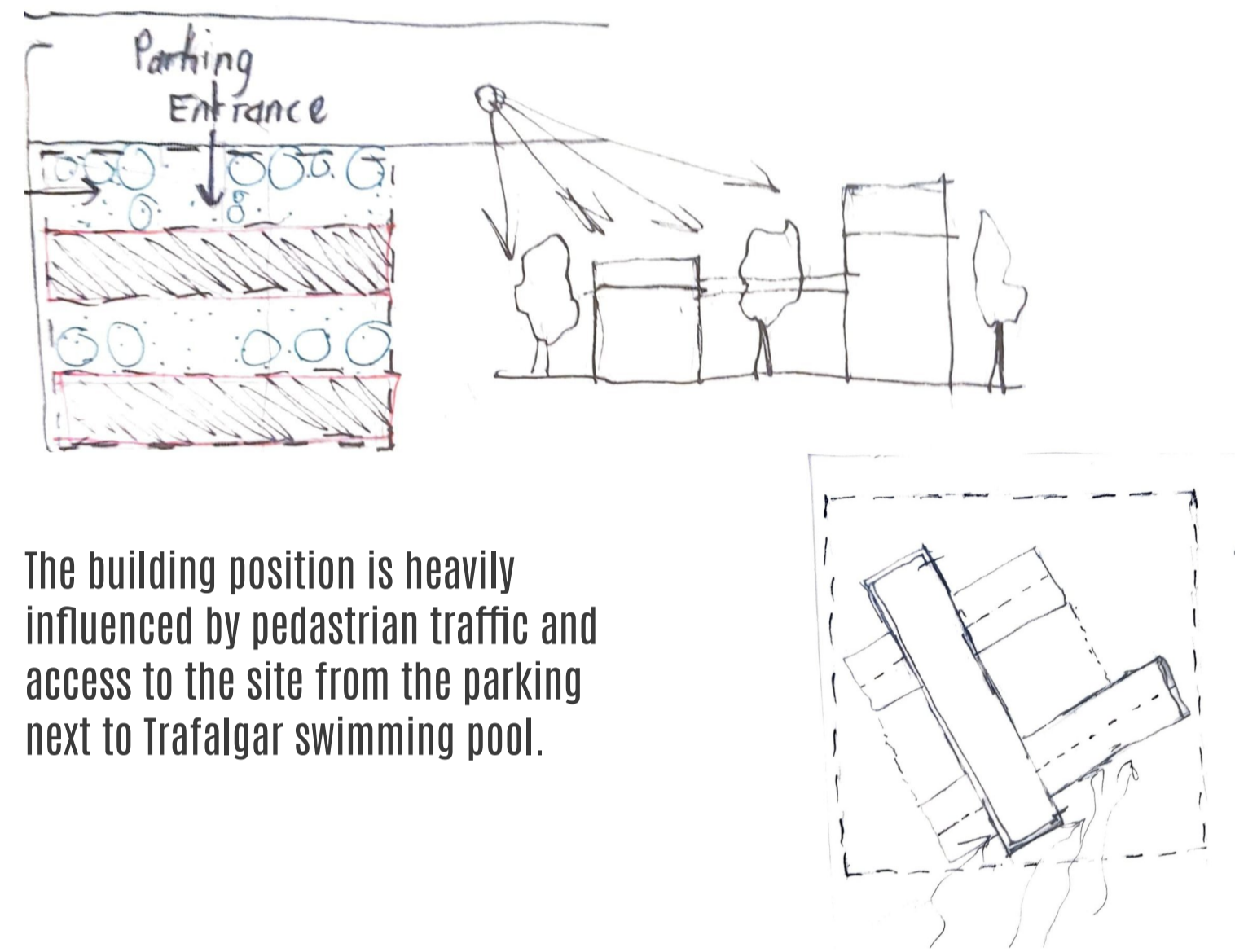


Design Development

The Fold

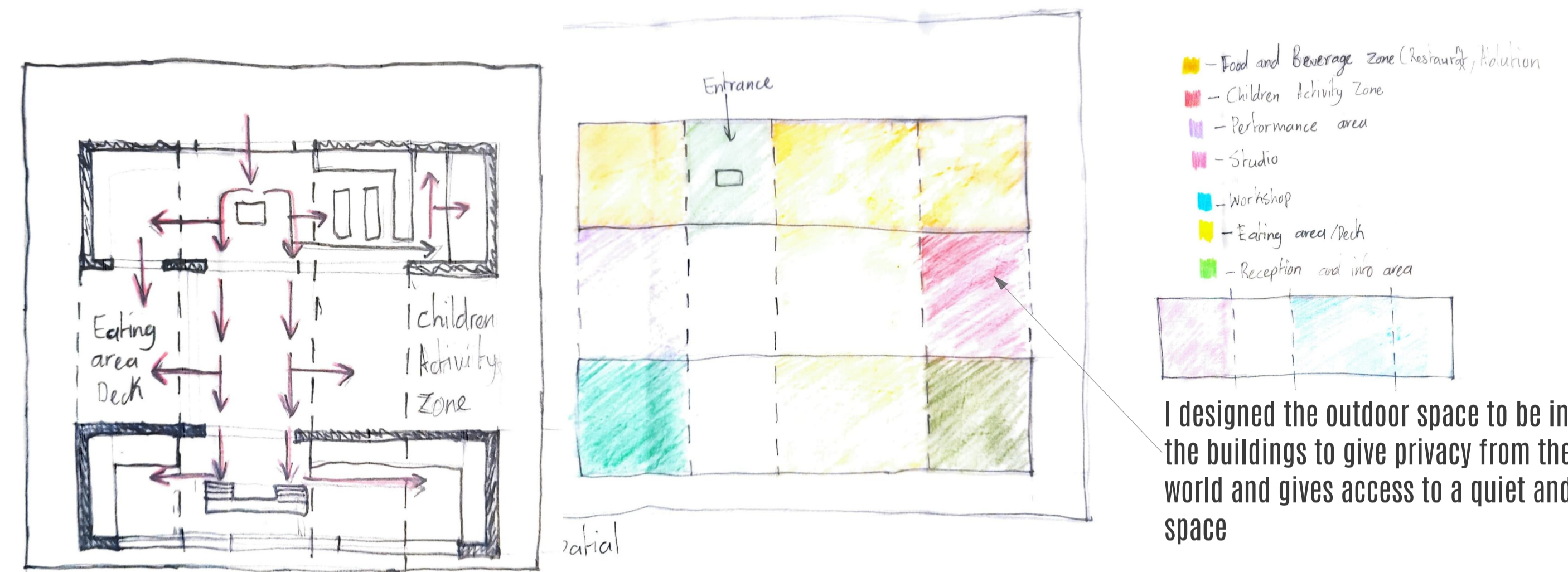
The original concept was inspired by Cape Town's most iconic mountains – Devil's Peak, Table Mountain, and Lion's Head. Their form, varying levels, and distinct angles became a heavy influence on the design's folded geometry. Following a thorough site analysis, the materiality shifted toward greens and browns to respond to the context; the site is located along a predominantly public, verdant, and open stretch of Searle Street, making landscape integration a key design focus. The building's massing reflects this natural language while remaining functional and intuitive to navigate, allowing movement through the spaces to feel organic and connected to its surroundings.

Context



The building position is heavily influenced by pedestrian traffic and access to the site from the parking next to Trafalgar swimming pool.

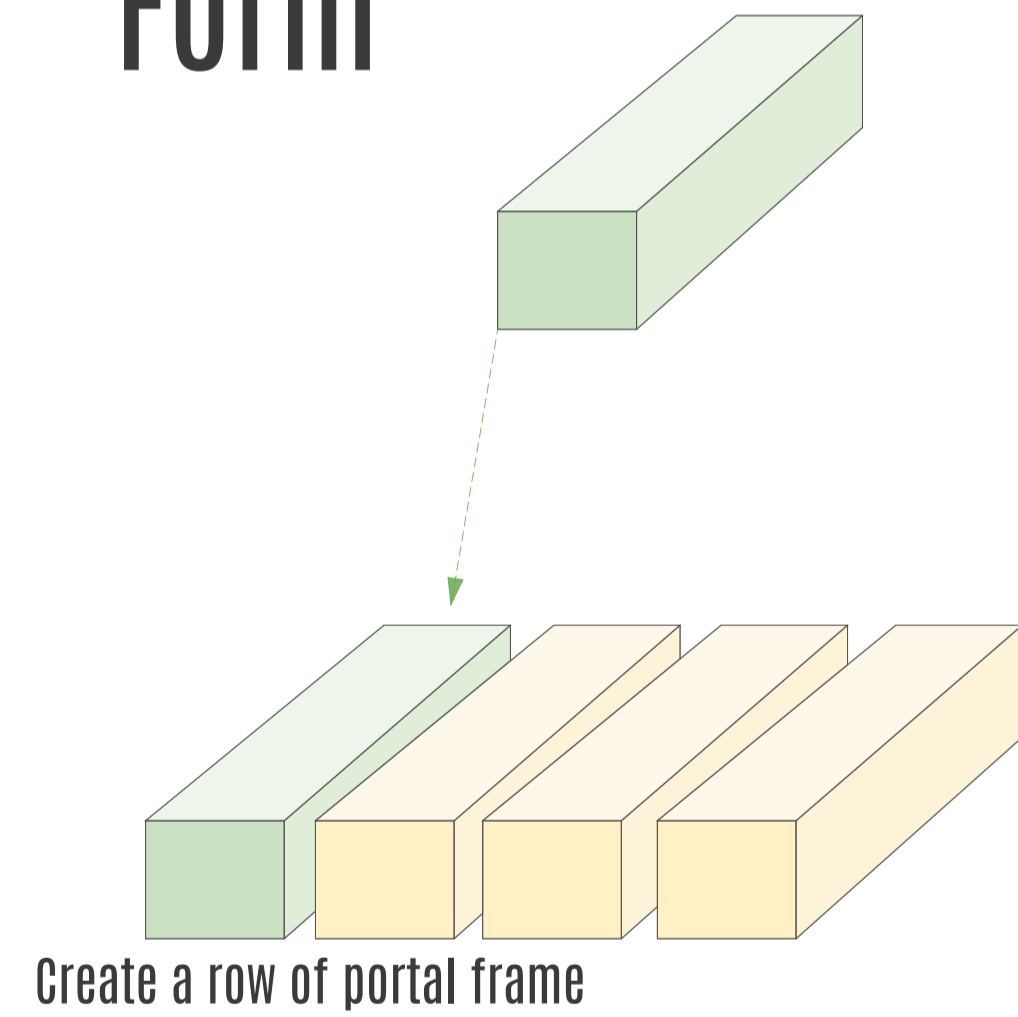
Function



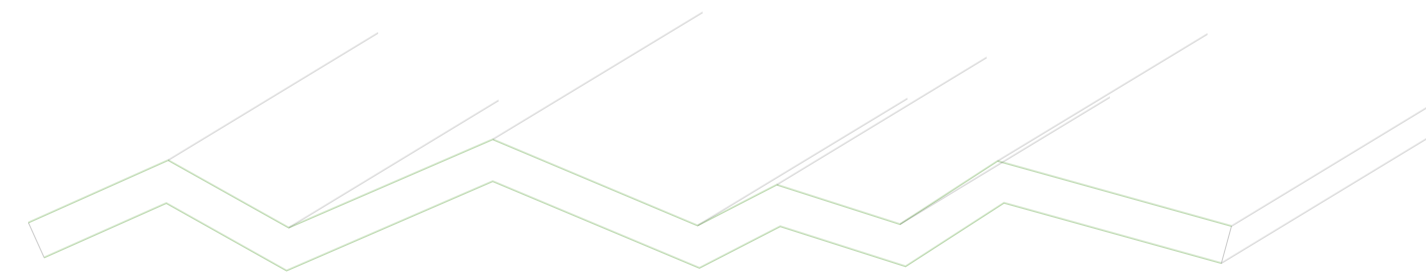
Smooth and easy flow function
I want the user to experience the space through stages, restaurant then courtyard, then selling points

I designed the outdoor space to be in between the buildings to give privacy from the outside world and gives access to a quiet and open space

Form

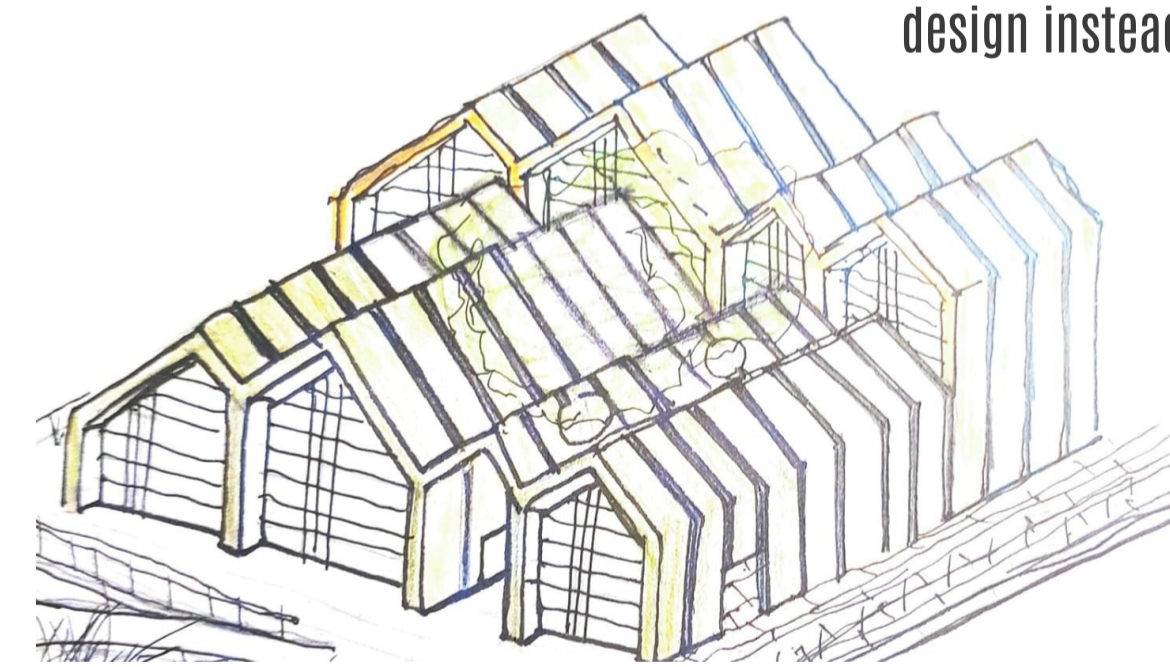


Create a row of portal frame



The form of the building accommodates the weather conditions of Cape Town
The three famous mountain in Cape Town influence the rigid but geometric form of the building. Devils Peak and Lions head influence the different roof levels and angles while table mountain influences the geometry by having 4 straight portal frames

Technology



The cladding is installed in between the h-section on the exterior, exposing the h-section and making it apart of the design instead of hiding it.

Main materials

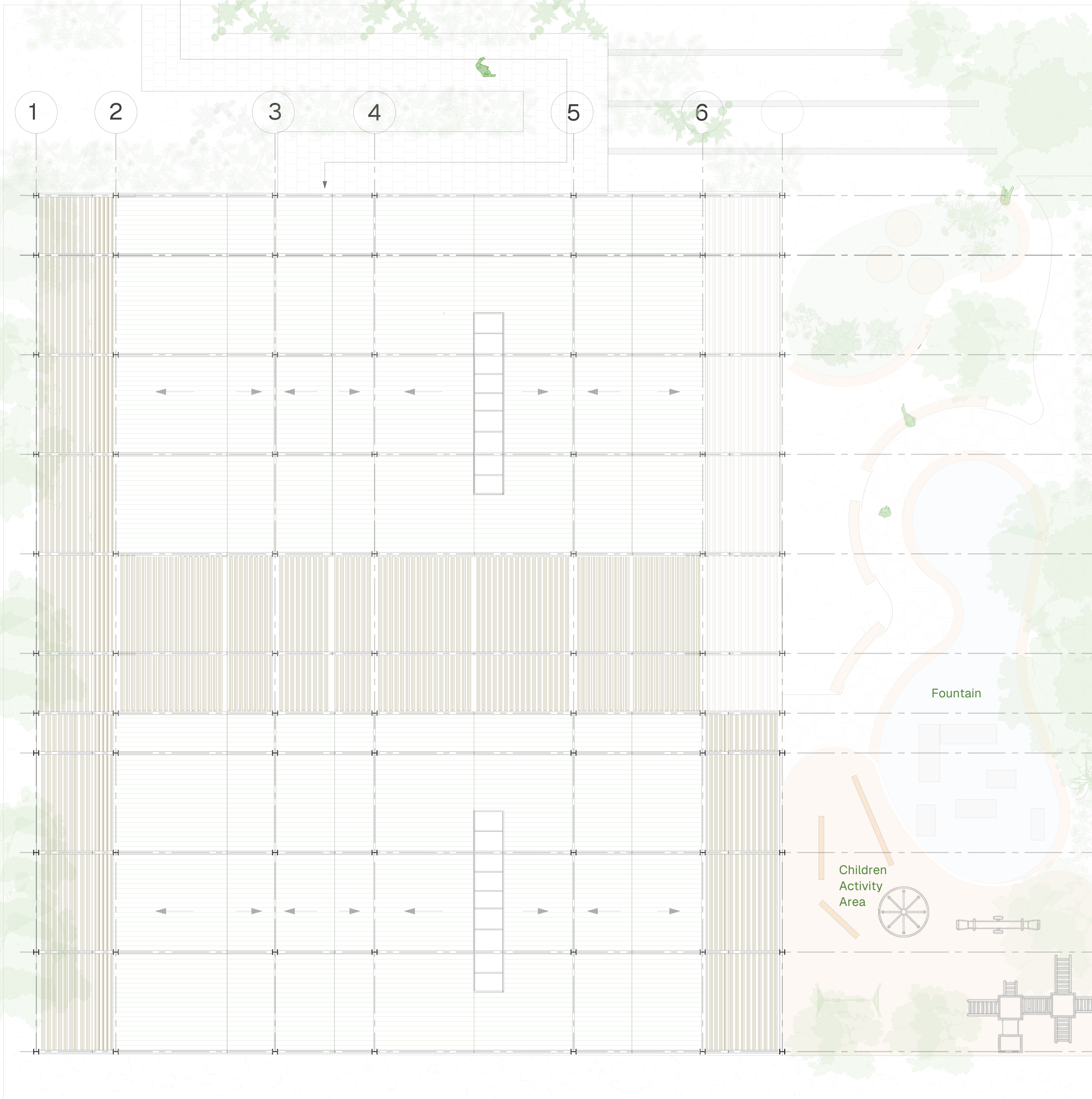


Timber for the internal cladding



The green corrugated roof sheet is used to make a continuation of the green stripe on searle st, to keep the green side green with the use of materials

Entrance



A

B

C

D

E

F

G

H

I

J

K

Searle St

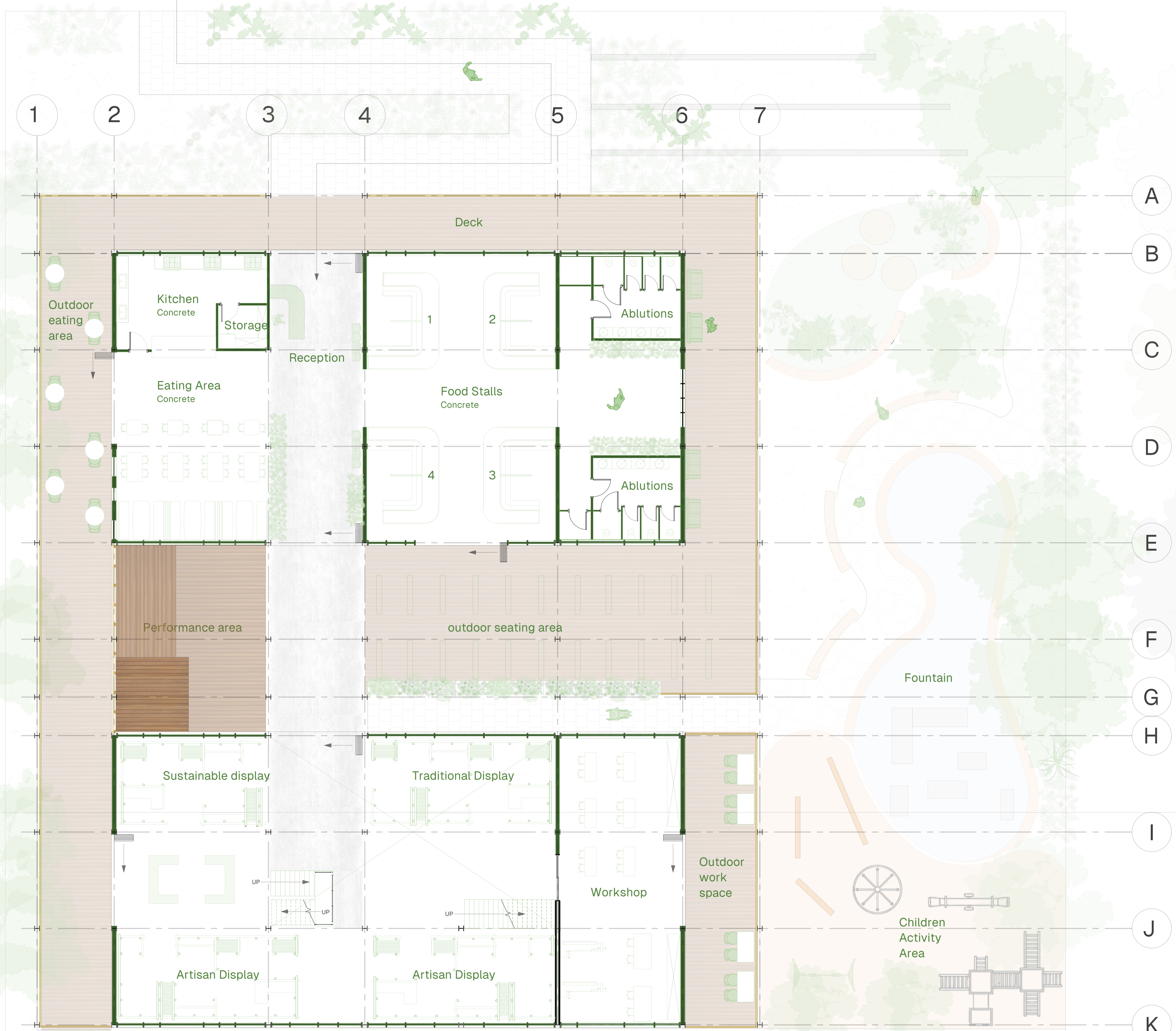
Fountain

Children Activity Area

N

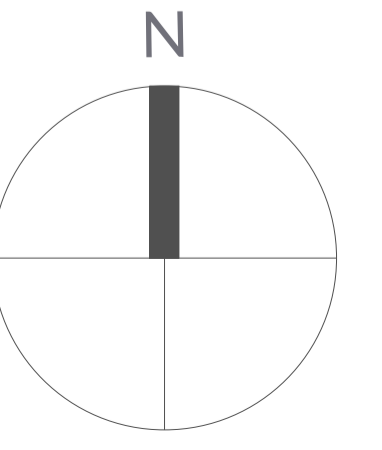
Roof Plan
Scale 1:100

Entrance



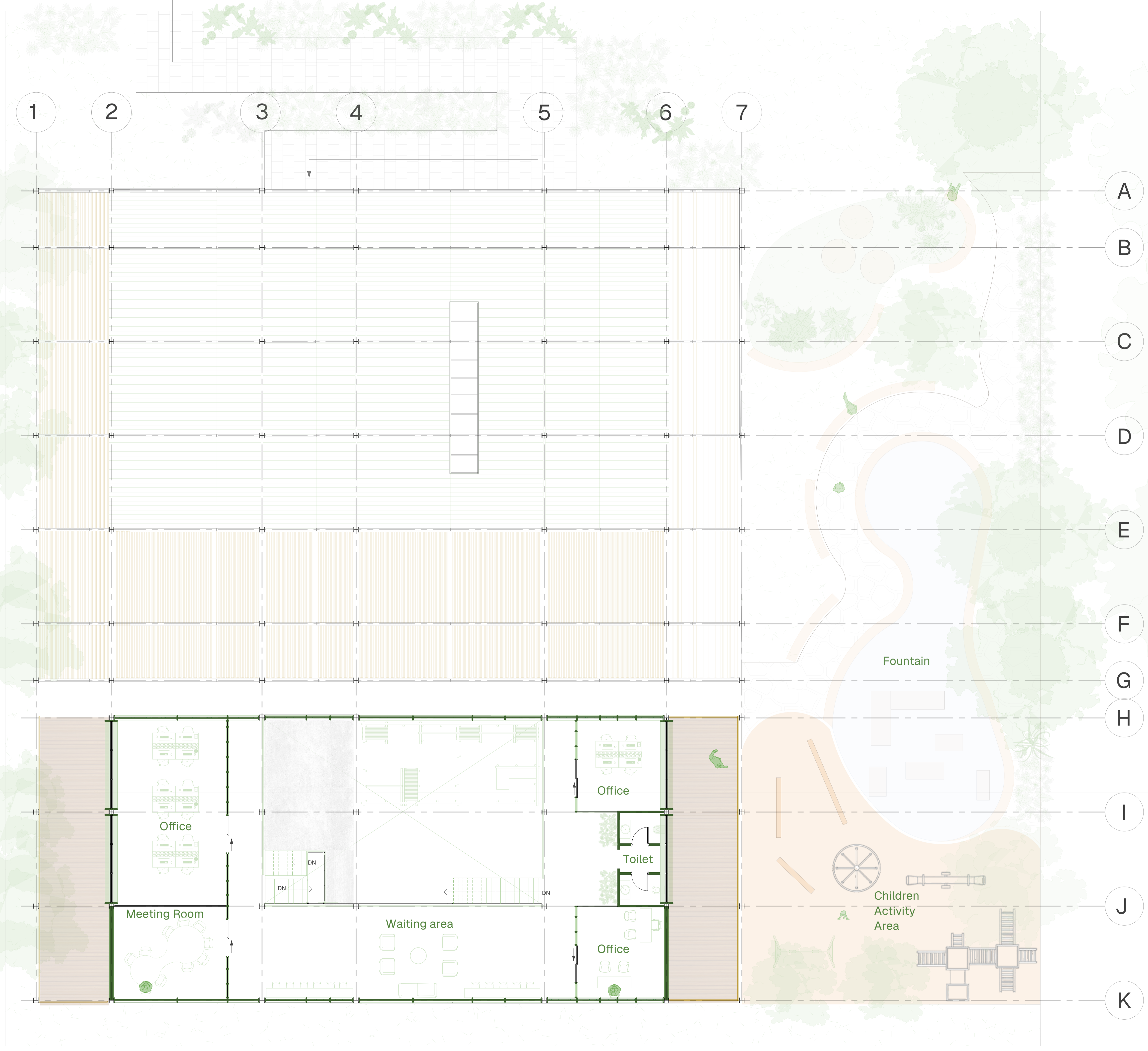
Searle St

Ground Floor Plan
Scale 1:100

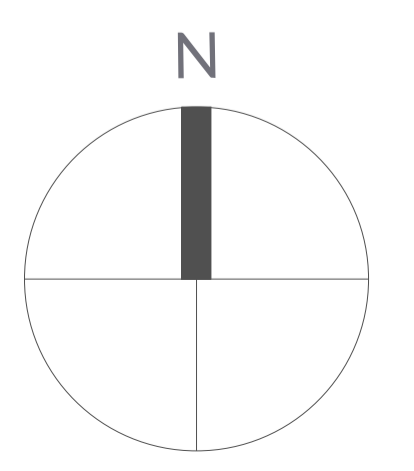


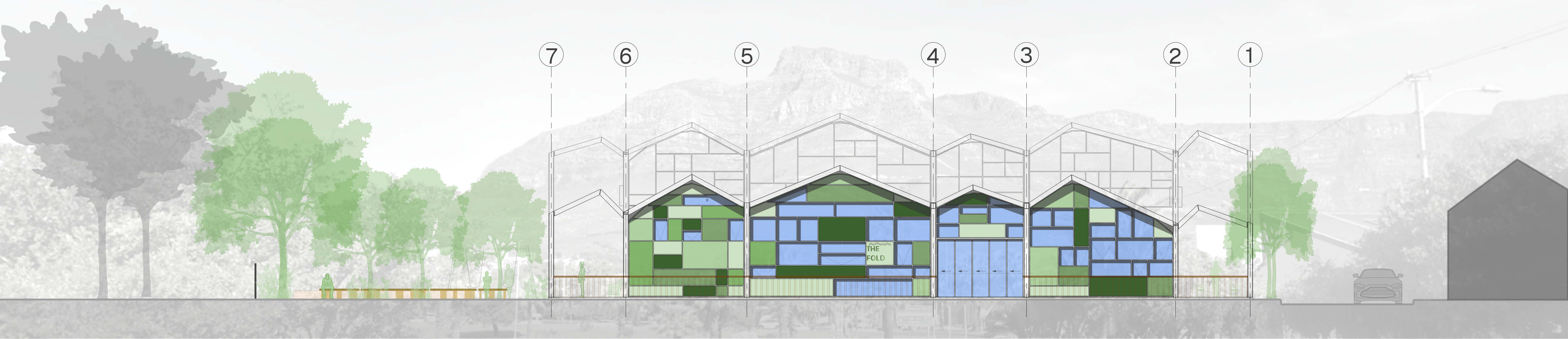
Entrance

Searle St

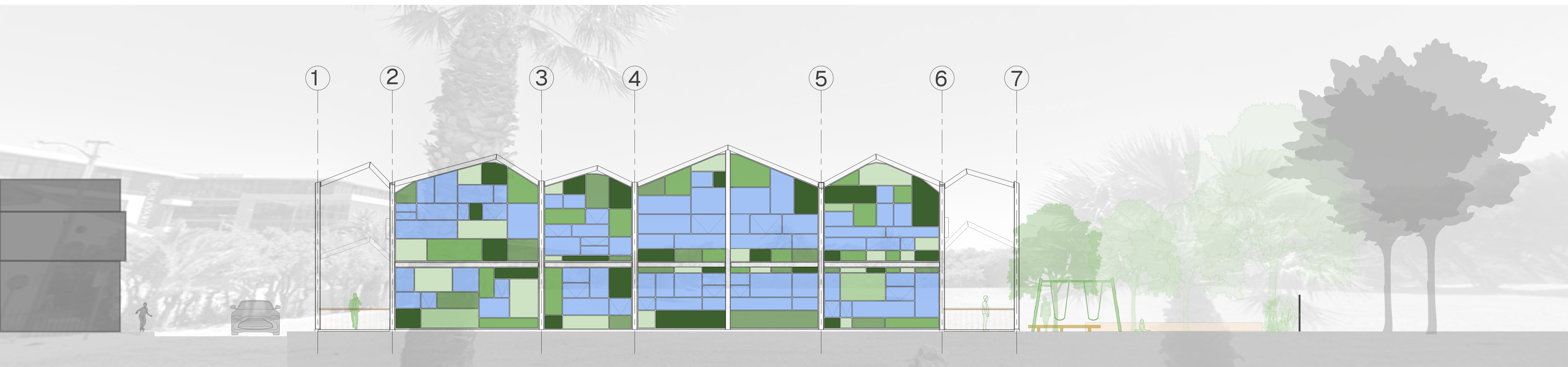


First Floor Plan
Scale 1:100





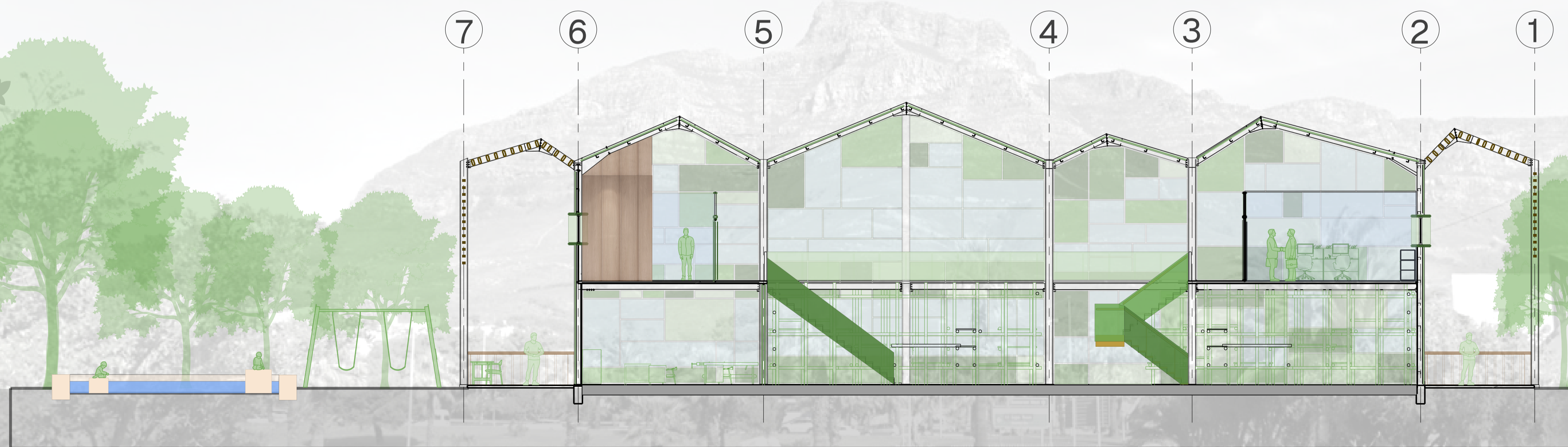
North Elevation
Scale 1:100



South Elevation
Scale 1:100



Section A
Scale 1:100



Section B
Scale 1:100

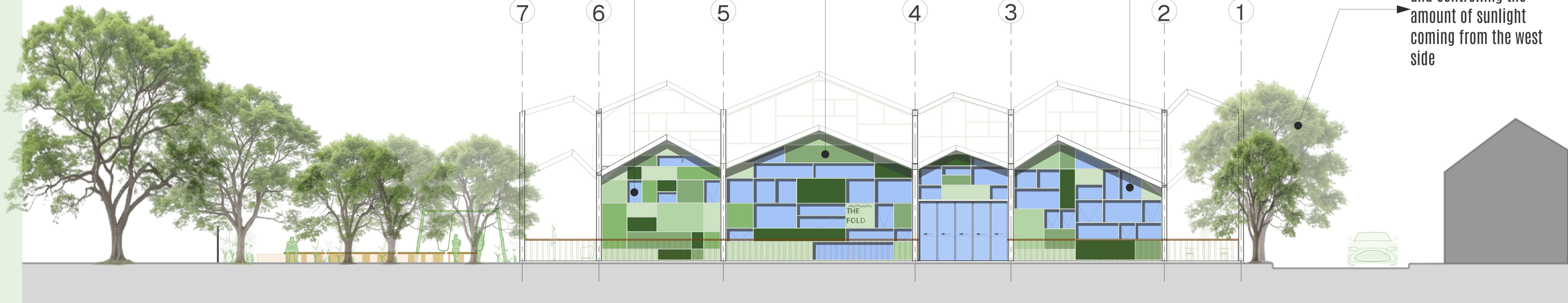
Passive Design Analysis- Sunlight and Shading

Windows are installed at a reachable height to allow air circulation around the building

The cladding on the facade minimizes the amount of sunlight that passes through while contributing to the aesthetics of the facade

- The facade has windows that are strategically placed to allow a good amount of sunlight in.
- Fixed windows allow a good amount of sunlight and contribute to thermal comfort

The trees on the west side assist with shading and controlling the amount of sunlight coming from the west side



North Elevation

The overhang helps decrease the amount of sunlight coming from the summer sun

Summer sun (December solstice)
angle : 75
Time: 12:00pm

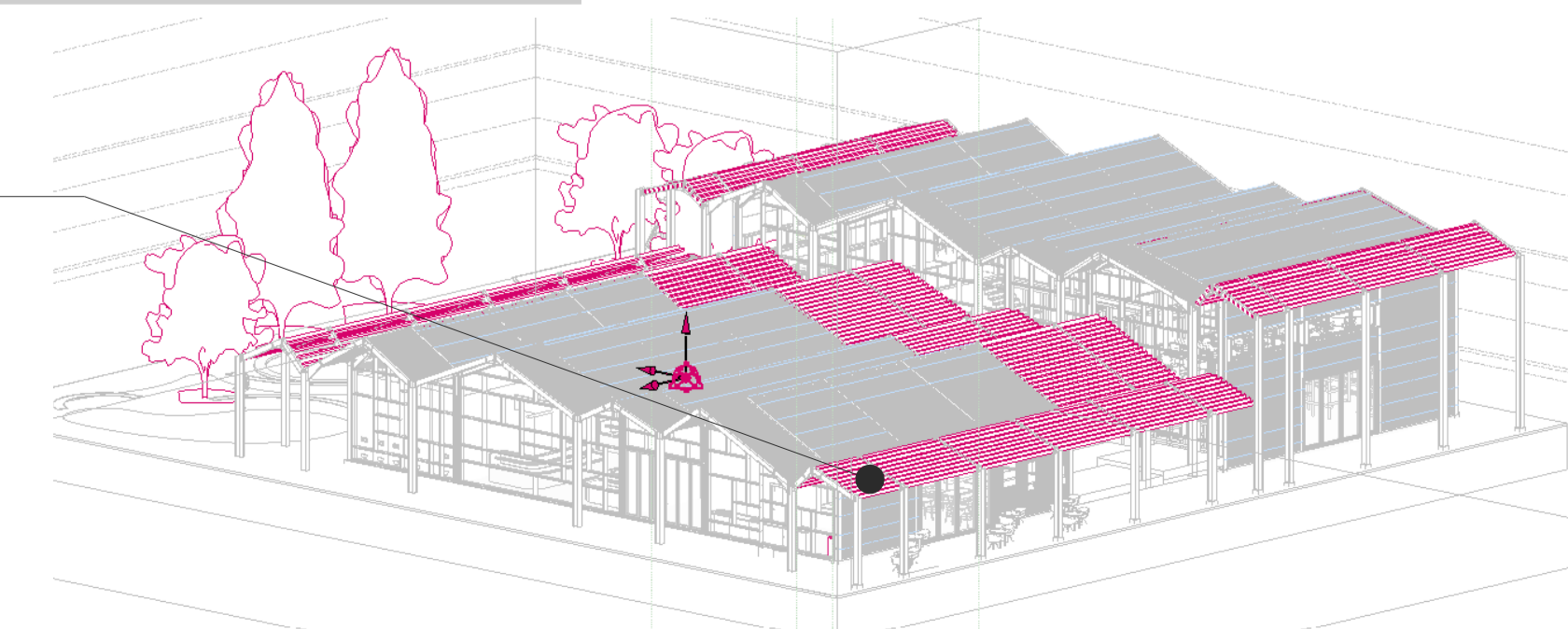
Winter sun allows for sunlight to enter the building and creates warmth during the coldest season

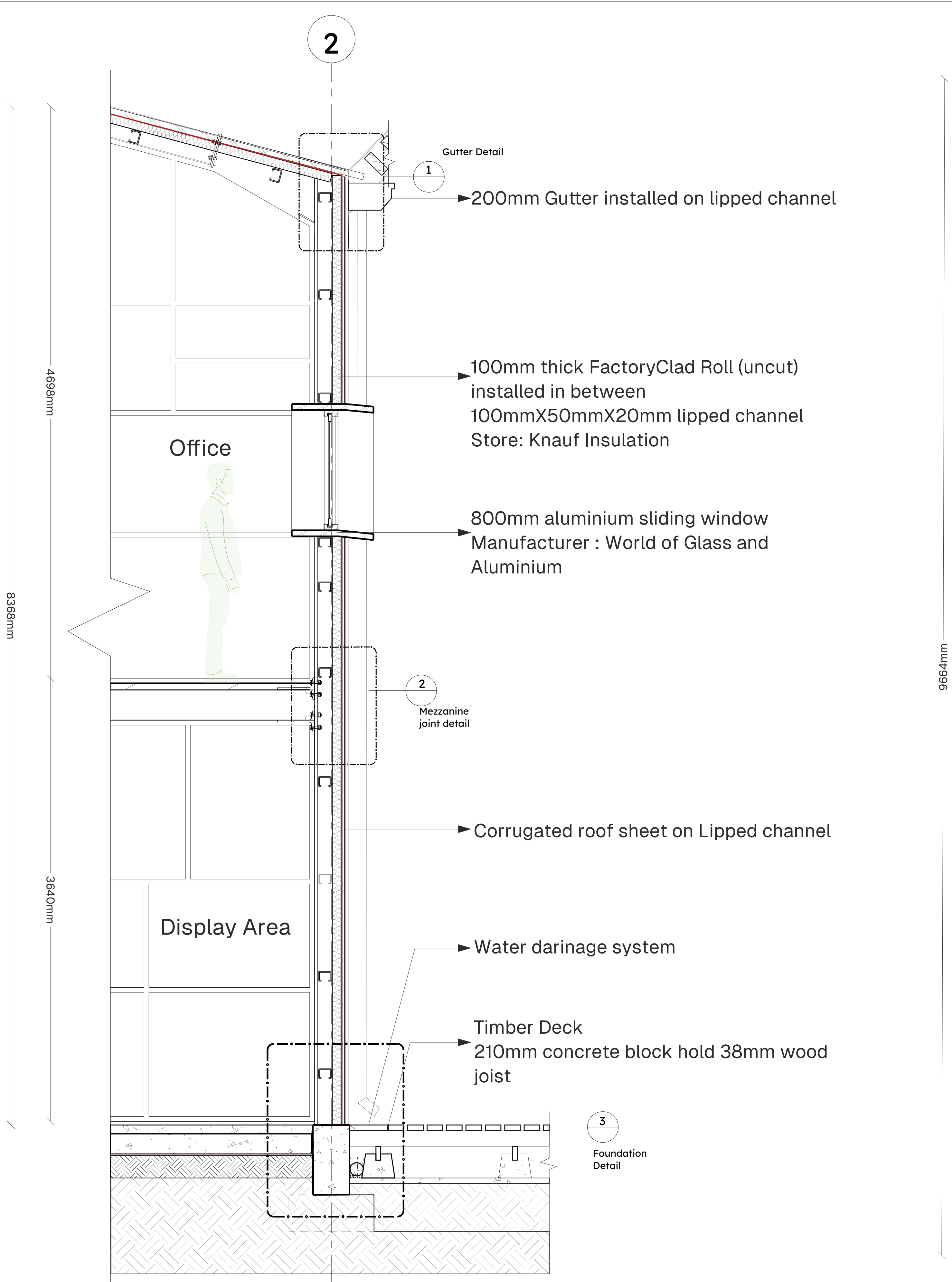
Winter sun (June solstice)
angle : 31
Time: 12:00pm



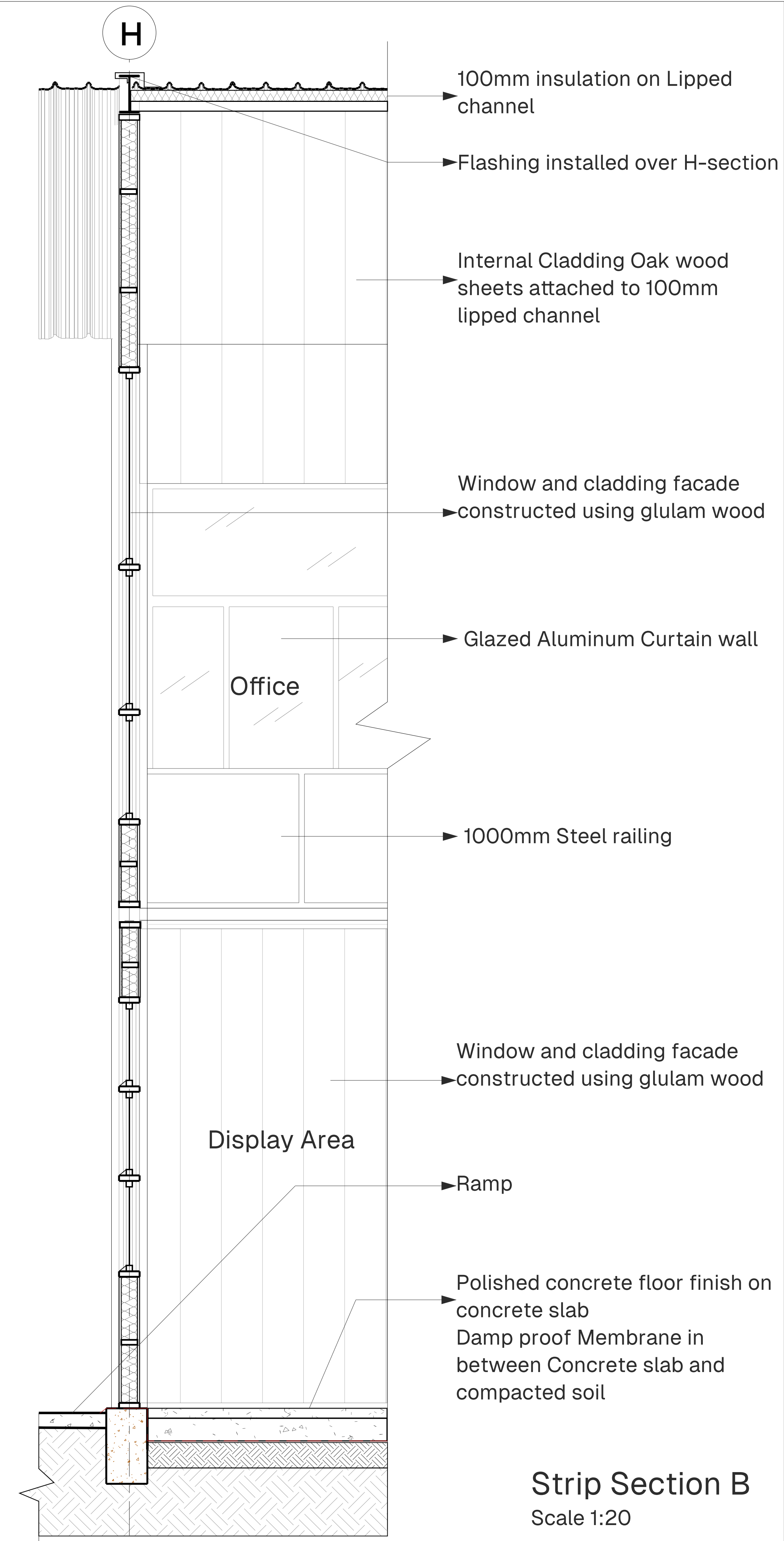
Section A

- Pergolas are constructed around the east and west side for shade incase something were to happen to the trees in the future





Strip Section A
Scale 1:20



Strip Section B
Scale 1:20



Drawing Title		
Strip Sections		
Drawing Number		
CPUT/AM/ST7/105		
Scale	Date	Drawn By
1:20	01/06/2026	Amanda.M
Drawing Number		Revision
CPUT/AM/ST7/105		00