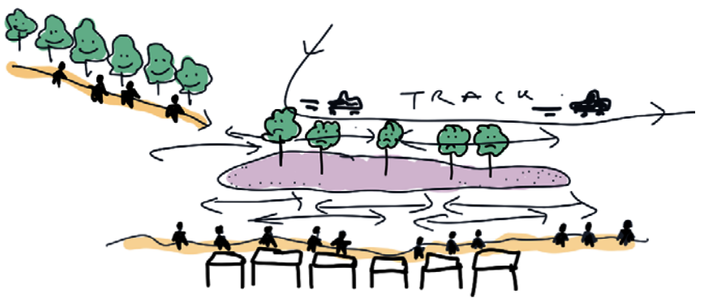
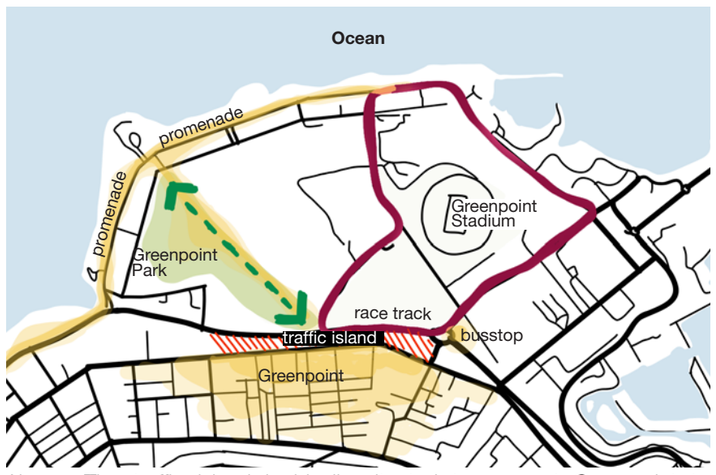
# zigzag pavilion

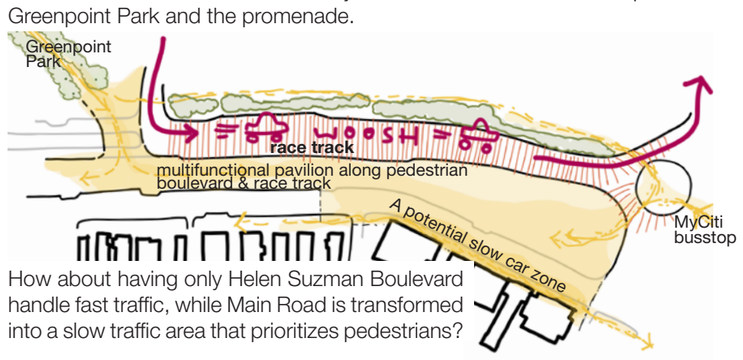
The traffic island between Helen Suzman Boulevard and Main Road in Greenpoint is ideally located to connect pedestrian activity in Greenpoint to Greenpoint Park, extending to the promenade. However, at present, this connection is interrupted by fast-moving vehicle lanes that isolate this vital link. This project, which is an entry for the THE CIRCUIT: a future pavilion for Formula E in Cape Town, aims to strengthen this connection for pedestrians by transforming the island into a pedestrian boulevard equipped with a zigzagged seating pavilion that links Main Road and the MyCiti bus stop to Greenpoint Park and the promenade. The design of the pedestrian boulevard hinges on the implementation of a slow car zone in Main Road, while still allowing for the passage of fast-moving vehicles (including race cars) along Helen Suzman Boulevard.




The main feature of the pedestrian boulevard is the zigzagged pavilion which faces the racetrack on its northern side, and presents seating, vendor stalls & lockers and planter boxes on its southern side towards the pedestrian boulevard. With this pavilion supporters would have the ability to cheer on Formula E racers, and so also the general public be able to enjoy the new established connection between Greenpoint and Greenpoint Park and promenade in a comfortable, beautiful and pedestiran friendly environment that stimulate social interaction, respite and economic opportunity.




Above: The traffic island is ideally situated to connect Greenpoint to Greenpoint Park and the promenade.




How about having only Helen Suzman Boulevard handle fast traffic, while Main Road is transformed into a slow traffic area that prioritizes pedestrians?

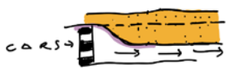
**How can we transform Main Road into a slow traffic zone?**




Install raised kerbs or speed bumps before, during, and after the slow traffic zone to reduce speeds.




Install maximum speed signs that clearly indicate a maximum speed of 30 km/h.




Introduce curves in the road to compel drivers to reduce their speed.



Enhance the street with vibrant street paintings to emphasize the priority of pedestrian movement.



Position bollards between car and pedestrian zones to prevent cars from entering pedestrian areas.



Place shopfronts on both sides of a street to encourage pedestrians to move between the two sides of the street.




**Concept urban plan. Zigzag pavilion steps visible. Seen WITHOUT colourful pavilion seats and pergola roof.**



**View 1. Pedestrian boulevard with pavilion and informal vendor space on right. View taken from the proposed cowork cafe**

The zigzag pavilion is constructed using a sustainable material palette. It comprises a series of zigzagging rammed earth steps at 400mm height, with colorful recycled plastic seats affixed to them. In between the steps, there is a ground surface made of grass brick blocks, set at a width of 500mm to allow for spacious walkways. These seating steps are covered by a zigzagging pergola that mirrors the shape of the steps. The pergola is constructed using laminated bamboo columns and bamboo beams in a 3m by 3m support grid.

The roof of the pergola is divided into grid panels, each measuring 1m by 1m. These panels are filled randomly with green, yellow, and brown recycled glass panels, solar panels, and roof planting. This design provides ample shade for both supporters and pedestrians on the pedestrian boulevard, as well as for vendors. The use of different materials in the roof grid also creates playful lighting, casting colorful shadows onto the seat walls and the pedestrian boulevard.

The pavilion's primary goal is to establish a comfortable and aesthetically pleasing environment where supporters can cheer on their racers, yet also be enjoyed on a day-to-day base.

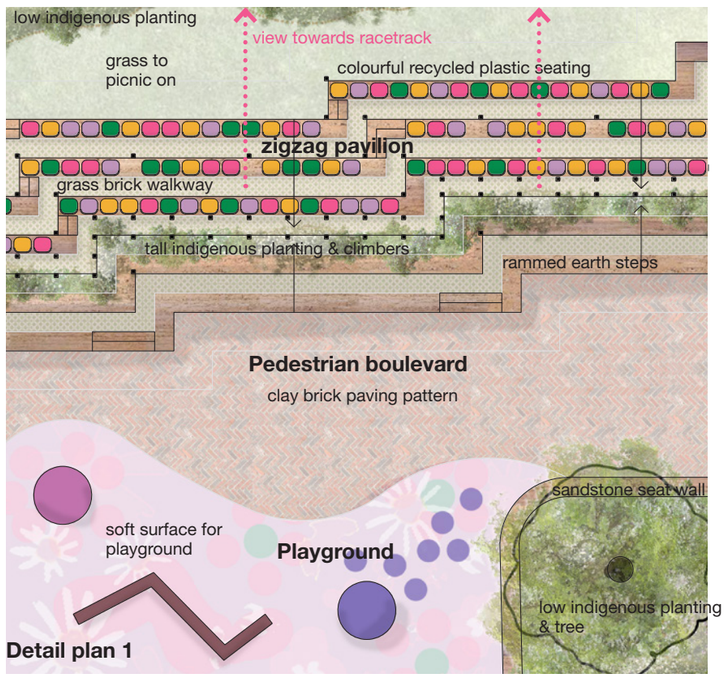


**Sketch of part the pavilion's roof plan, indicating the various panel materials that will be used to cover the pergola's roof.**

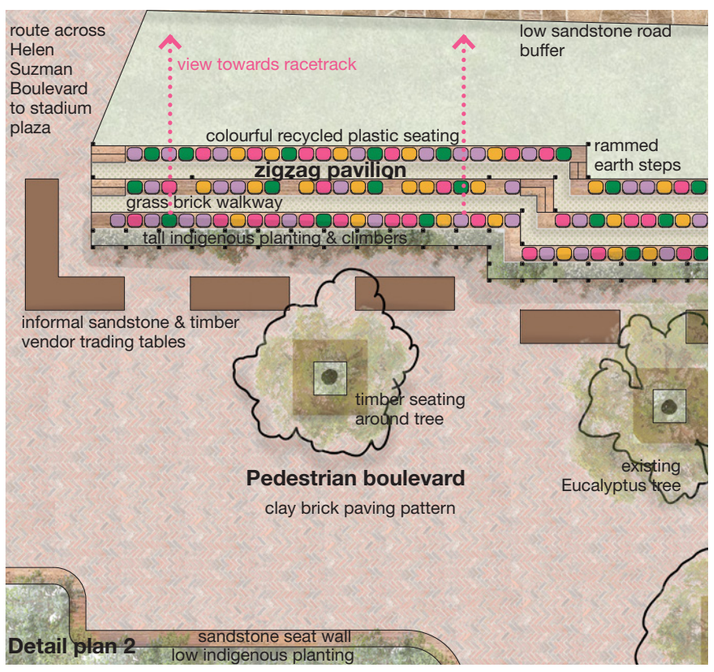
1m x 1m solar panel

1m x 1m block of roof planting

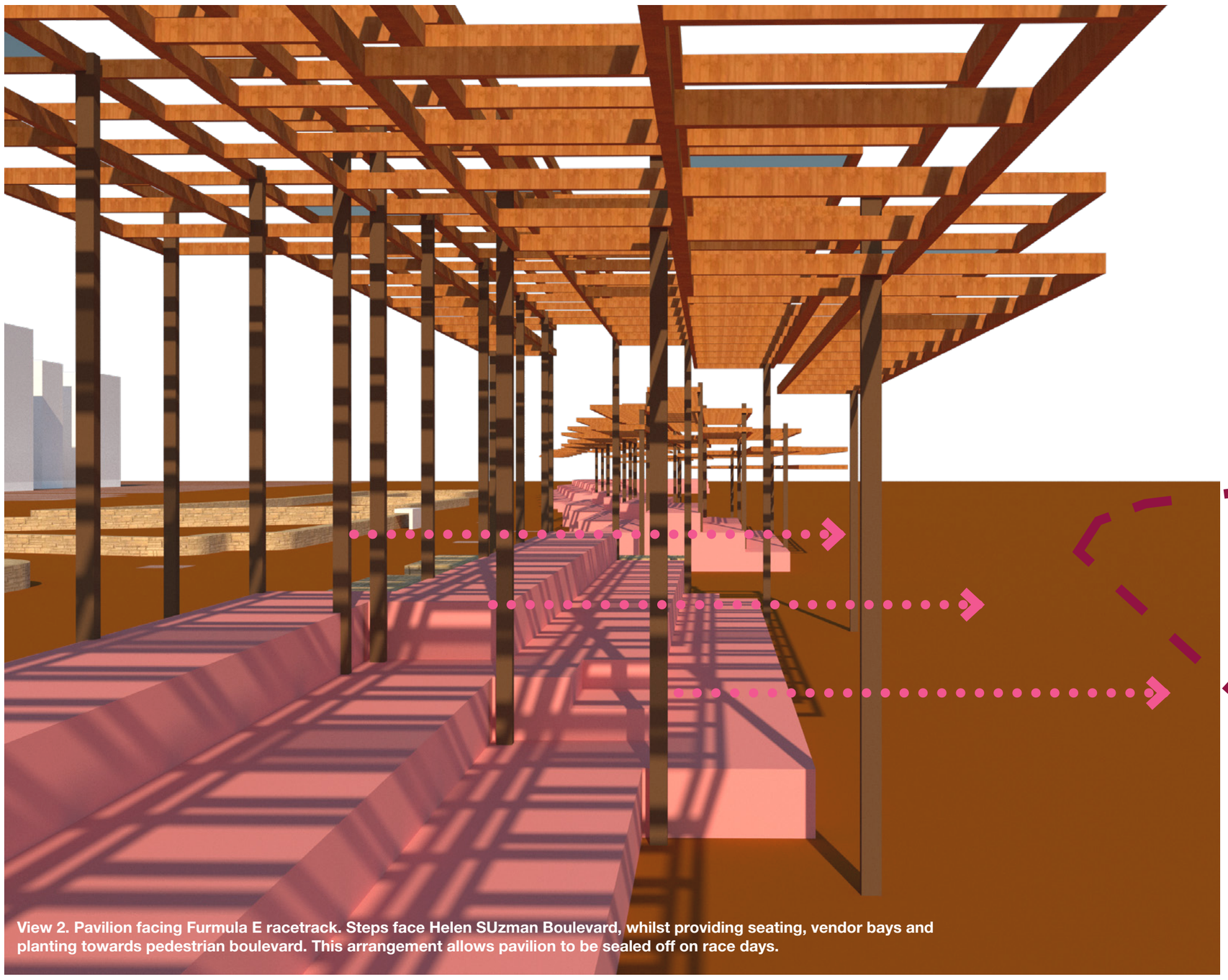
1m x 1m recycled glass panel. Colour: green, yellow and brown (represented as purple)




**Detail plan 1**




**Detail plan 2**



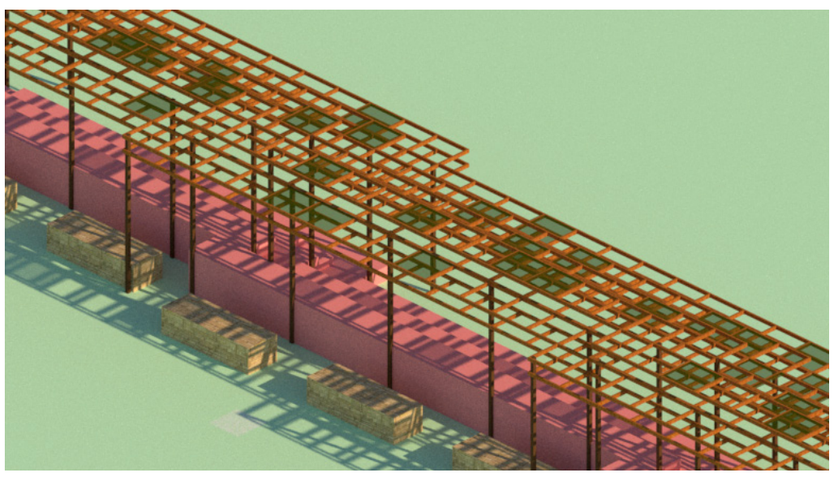
**View 2. Pavilion facing Furmula E racetrack. Steps face Helen SUzman Boulevard, whilst providing seating, vendor bays and planting towards pedestrian boulevard. This arrangement allows pavilion to be sealed off on race days.**



**View 3. Looking towards the pavilion from the planted seat walls on Main Road side**



**View 4. Looking from Giovanni's - seeing how Main Road is transformed into a slow traffic zone**



**View 5. Axonometry which shows the typical structure of the pavilion**




**Concept section with material pallette**

TC15