

Assignment A.3/ Design prototyping

— — Southern Cross Station

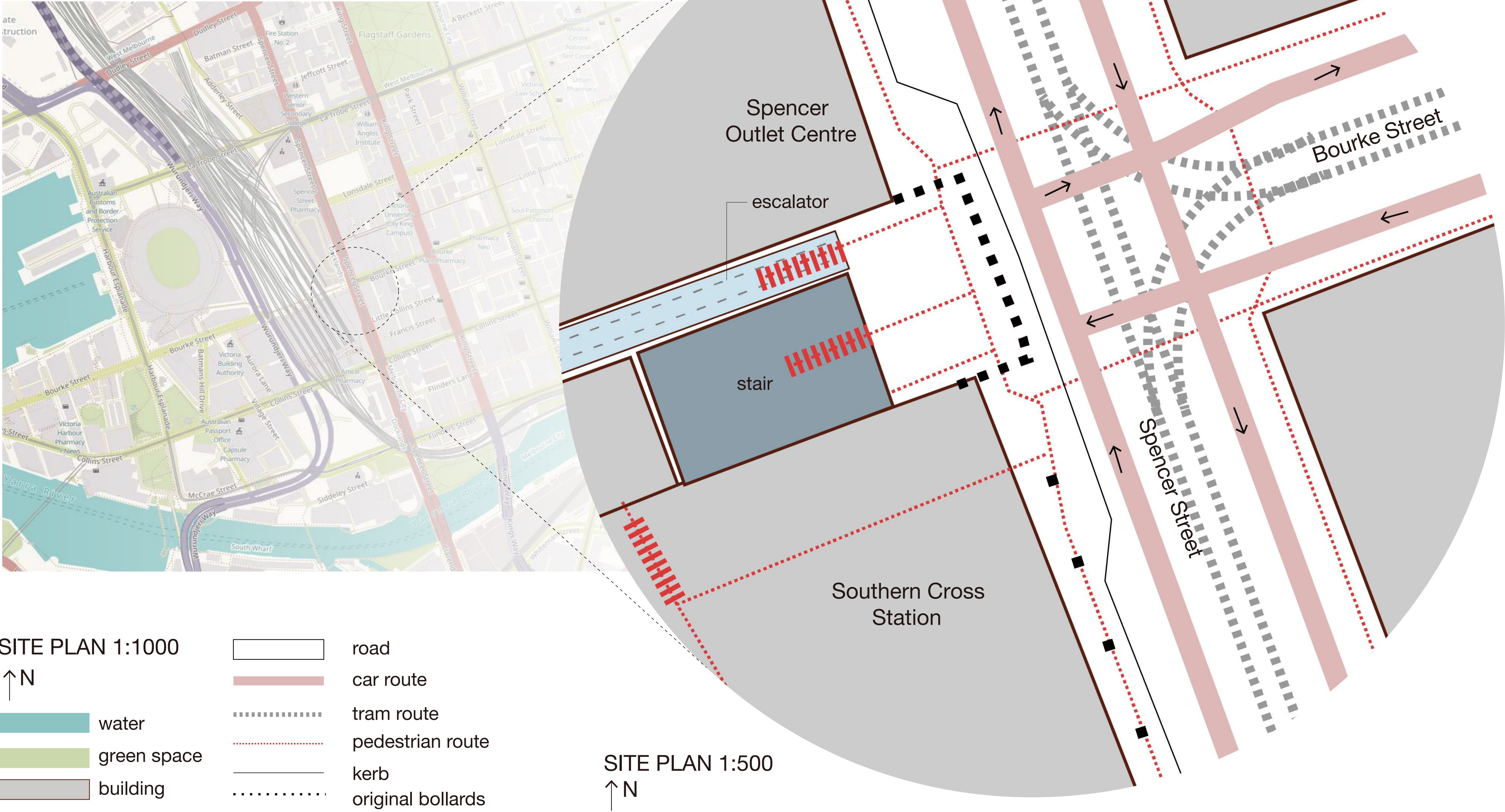
BPL90340-2020-SM1 Group: Budapest
Group Members: *Bree Ellett, Junbin He, Xinyue Zhang*
Leaders: *Alessandro Liuti/ David Wyld*



Southern Cross Station - Delineation

INTRODUCTION

The footpaths outside Southern Cross station are heavy with pedestrian traffic, especially in peak hour. Whist temporary concrete bollards have been placed along Spencer Street - no permanent solution to the hazard of vehicle attack has been put in place to protect pedestrians.



SITE FEATURES



High Pedestrian Flow



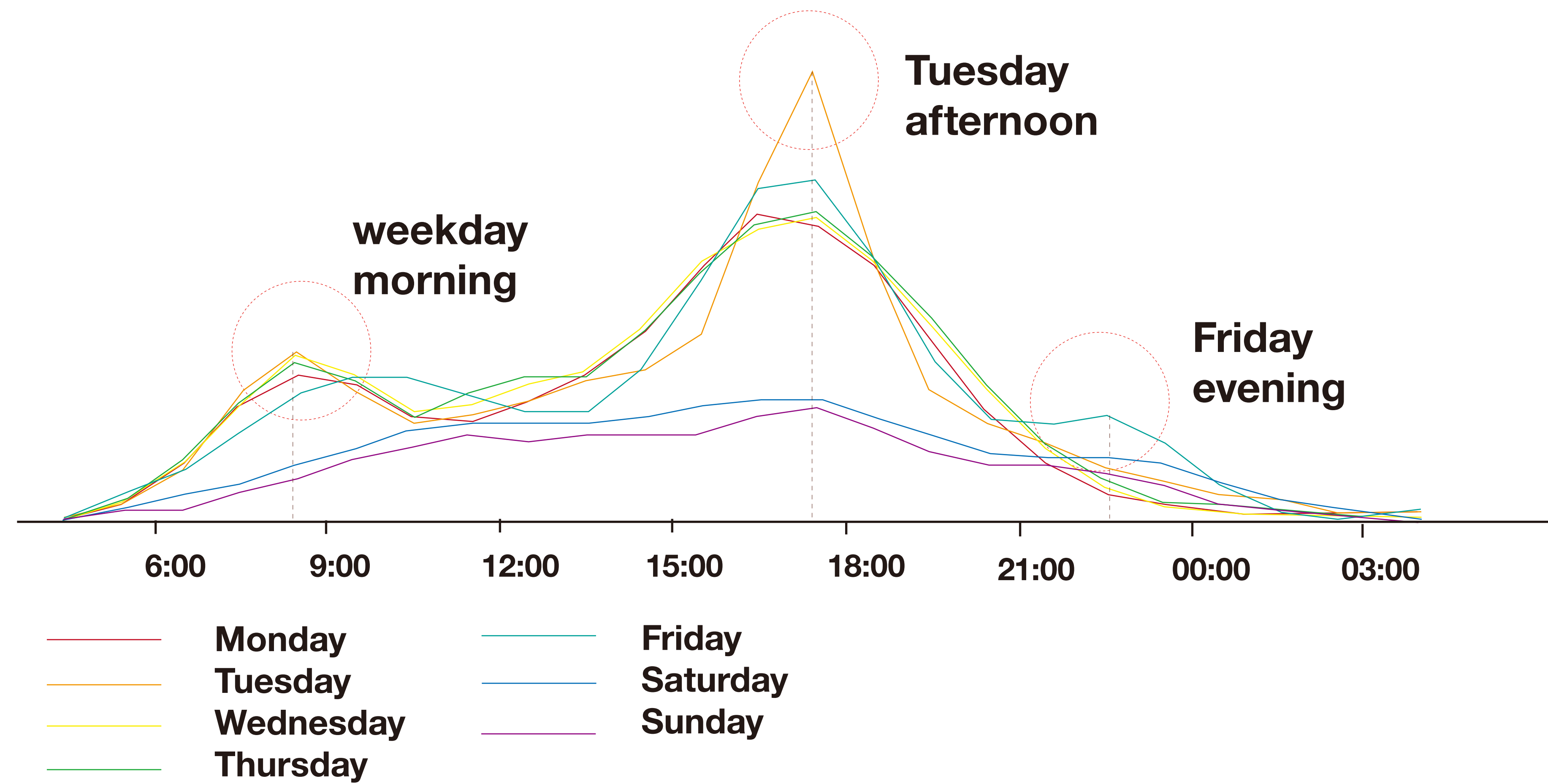
Complex Traffic



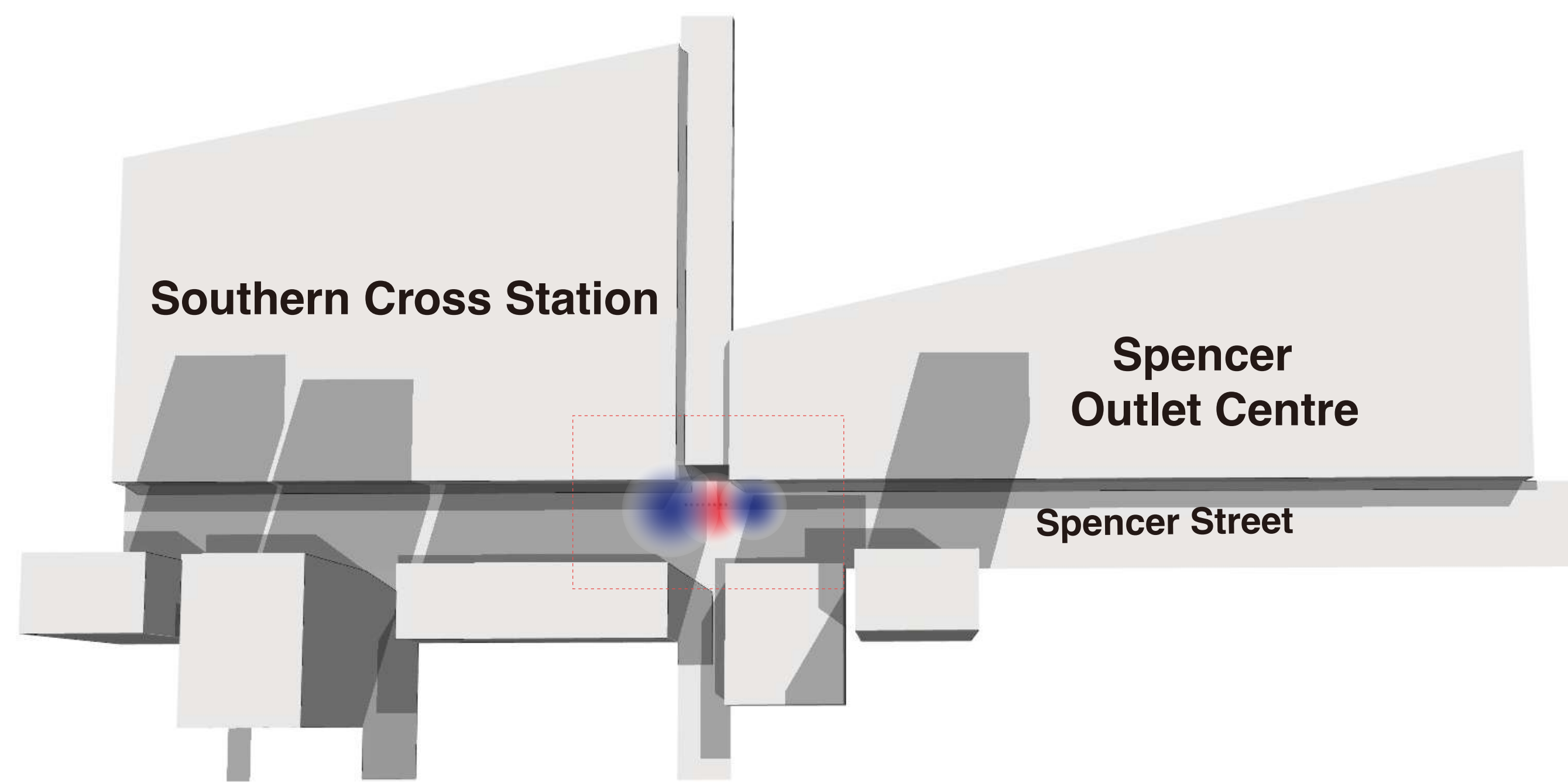
Potential Car Attack

SITE ANALYSIS

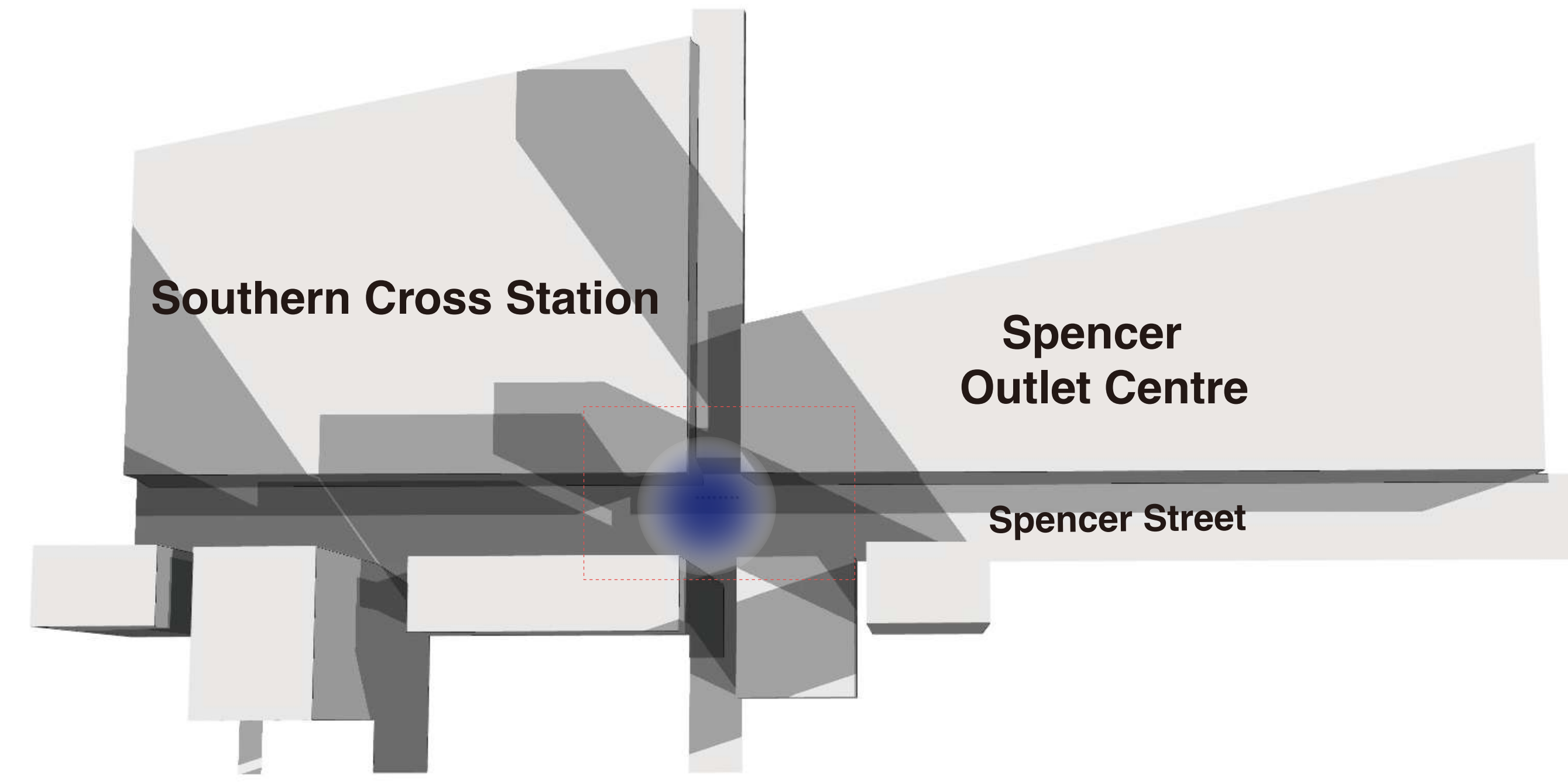
PEDESTRIAN FLOW



SUN AND SHADOW



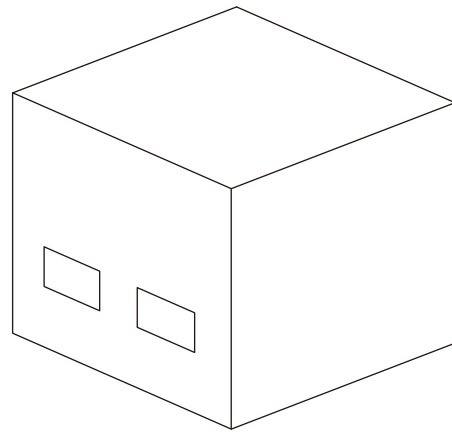
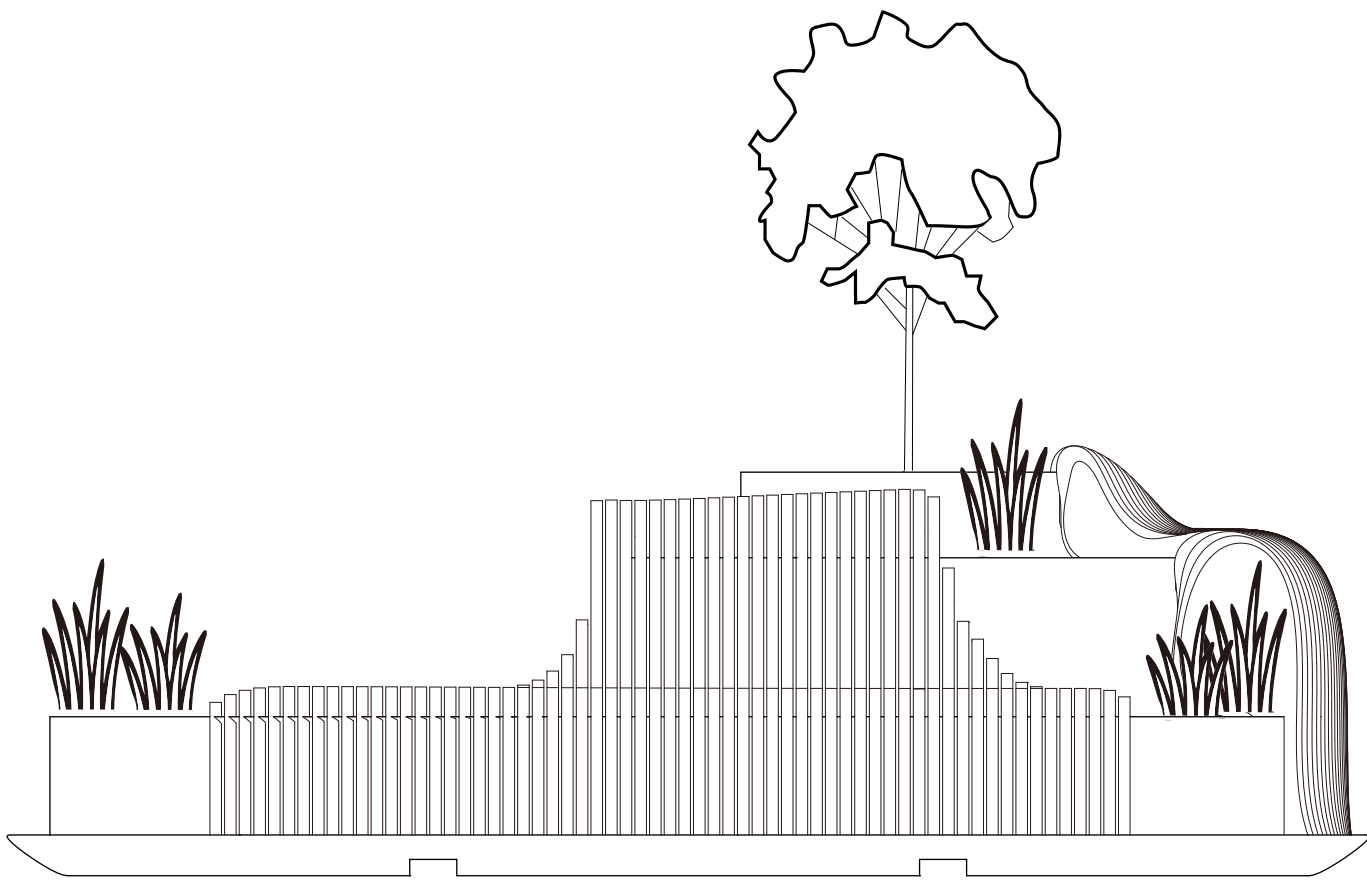
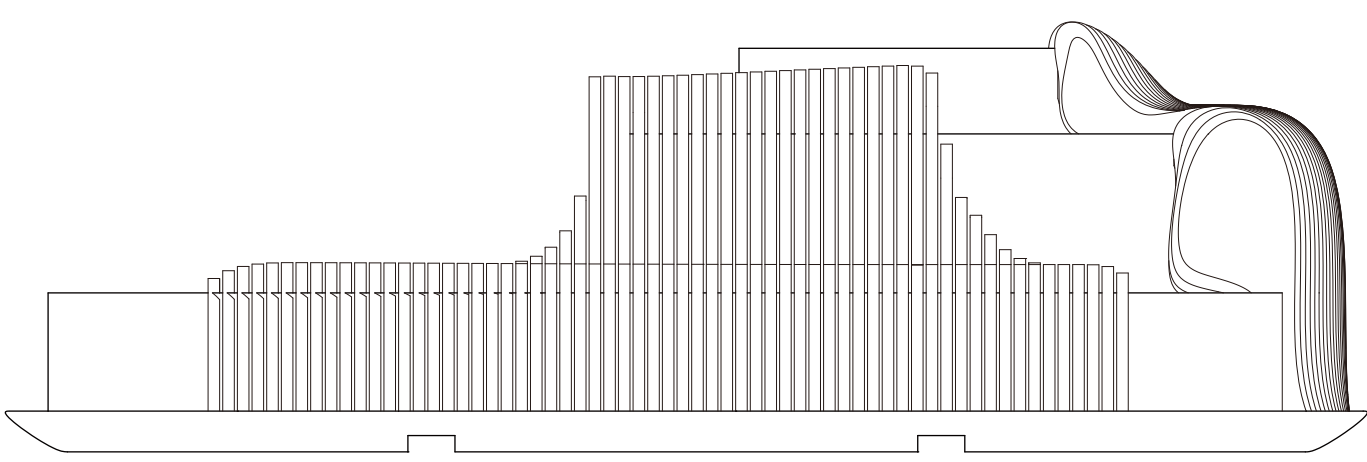
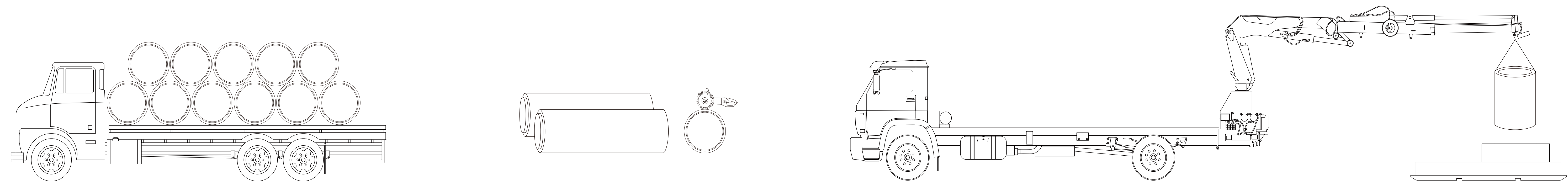
Summer Solstice



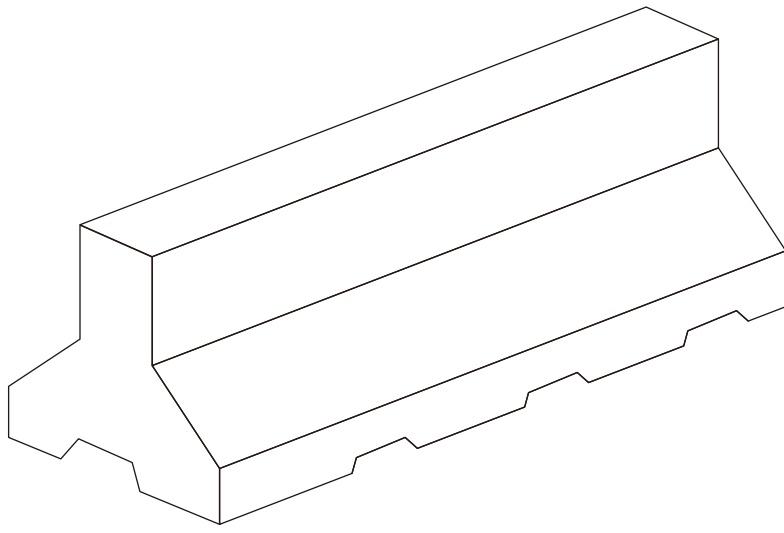
Winter Solstice



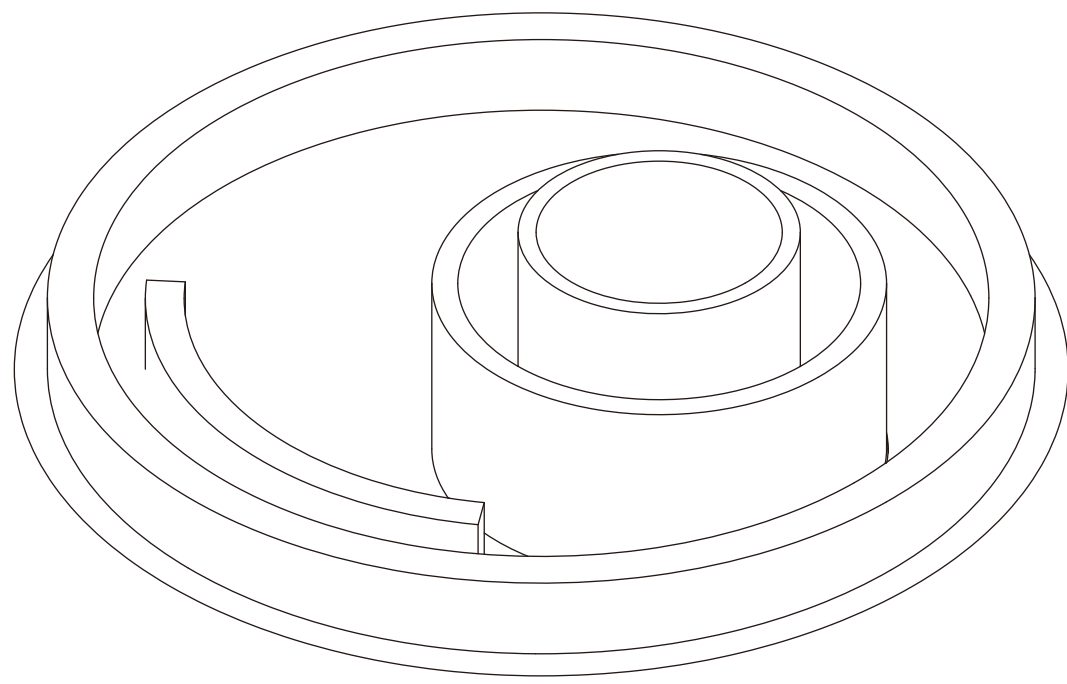
Truck Bringing Pipes



1000kg



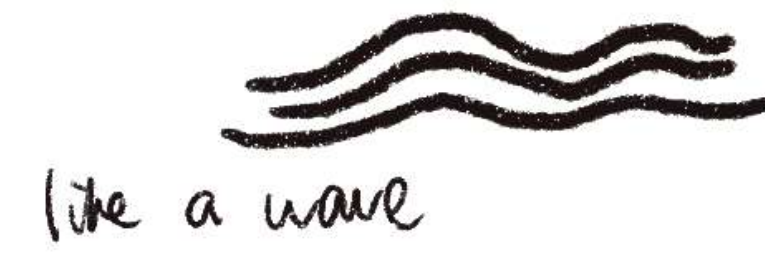
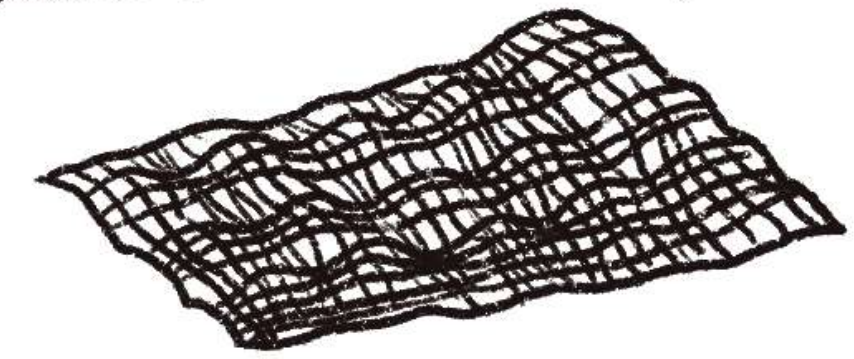
1200kg



5000kg

DESIGN CONCEPT

Southern Cross Station roof.



like a wave

→ first idea:



the ripple.
soft feeling.



but



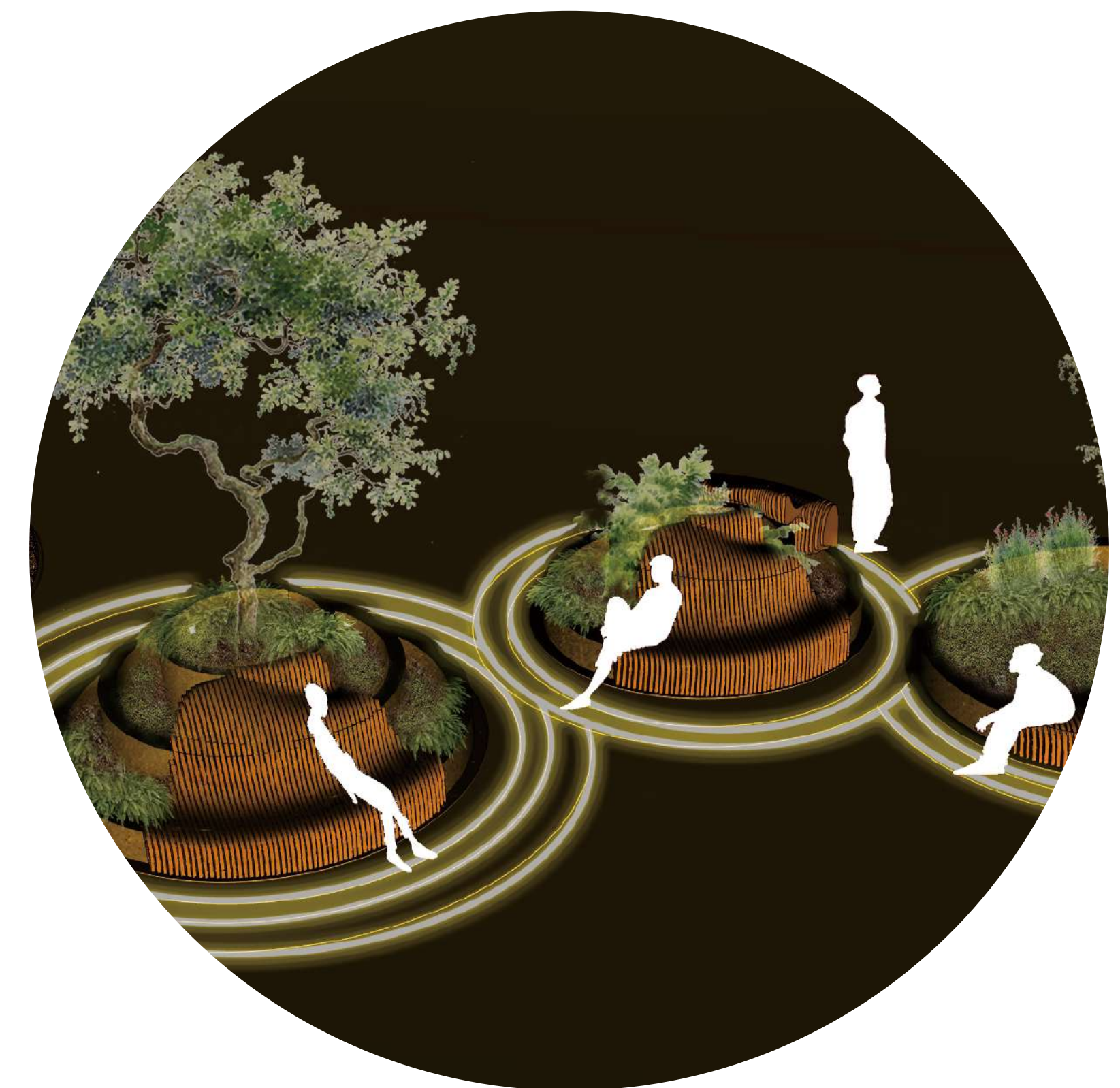
solid is expensive.
and hard to build.



Sitting

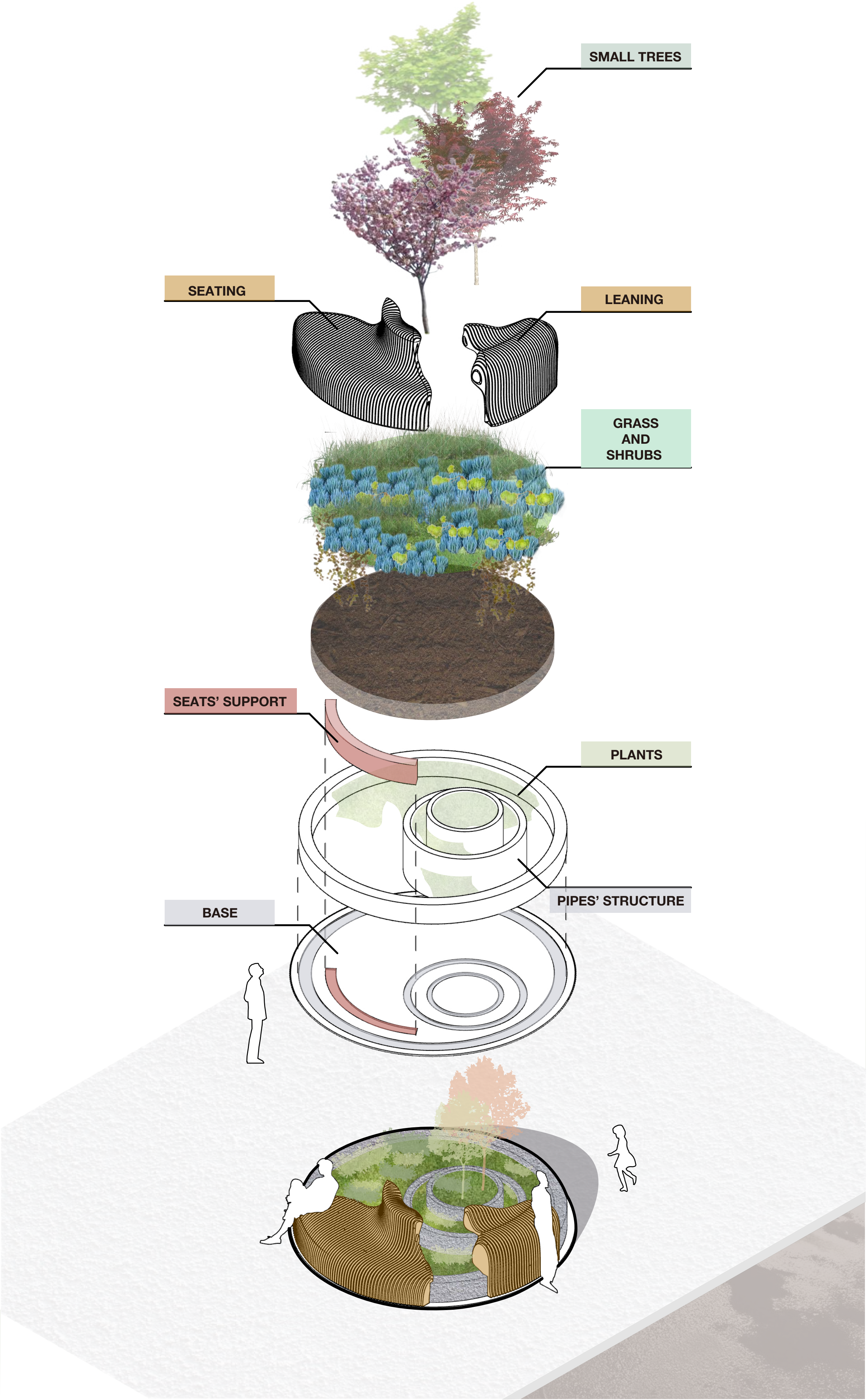


Sitting and Leaning

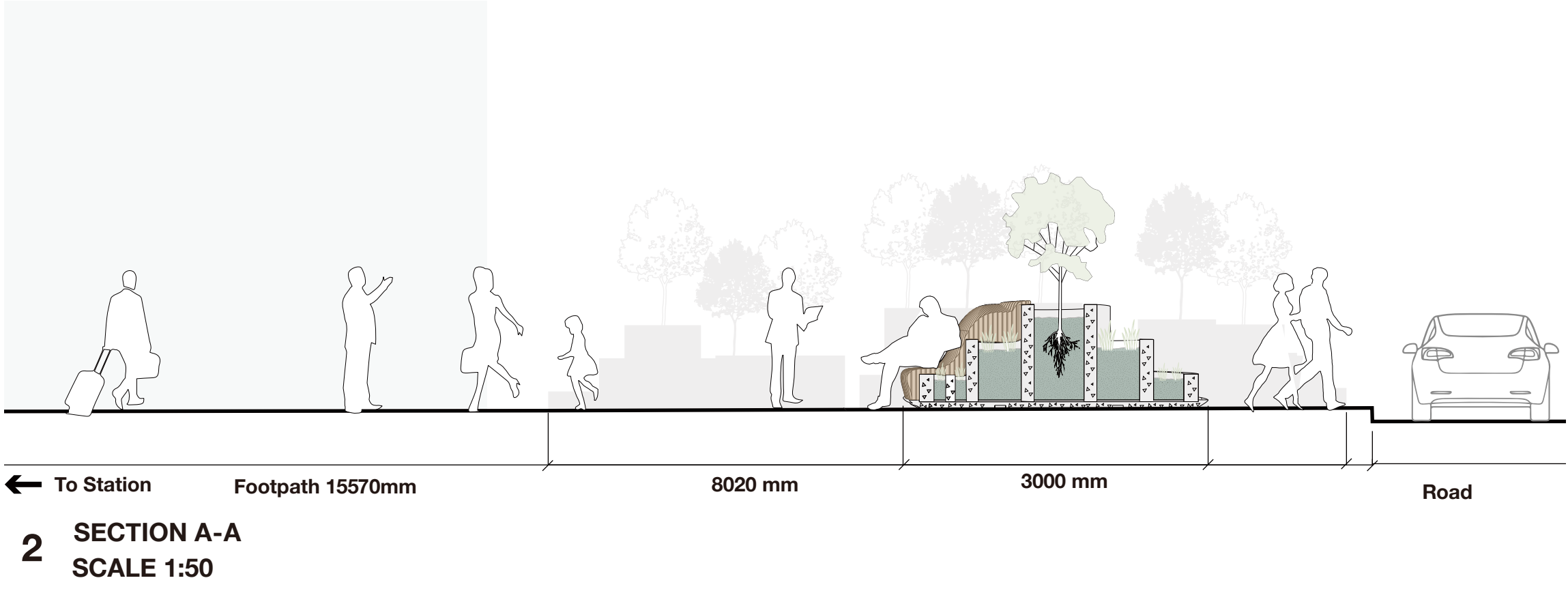


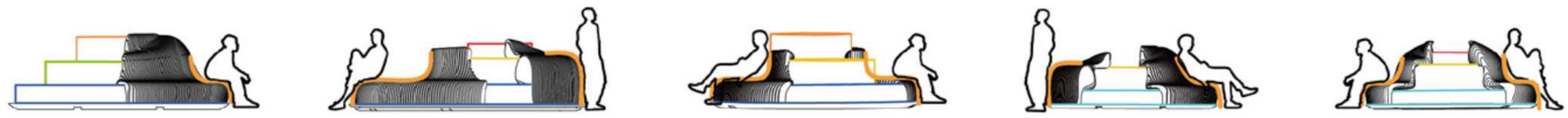
Lights in Pavement





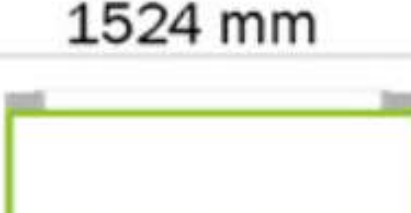


Axonometric



DESIGN ANALYSIS

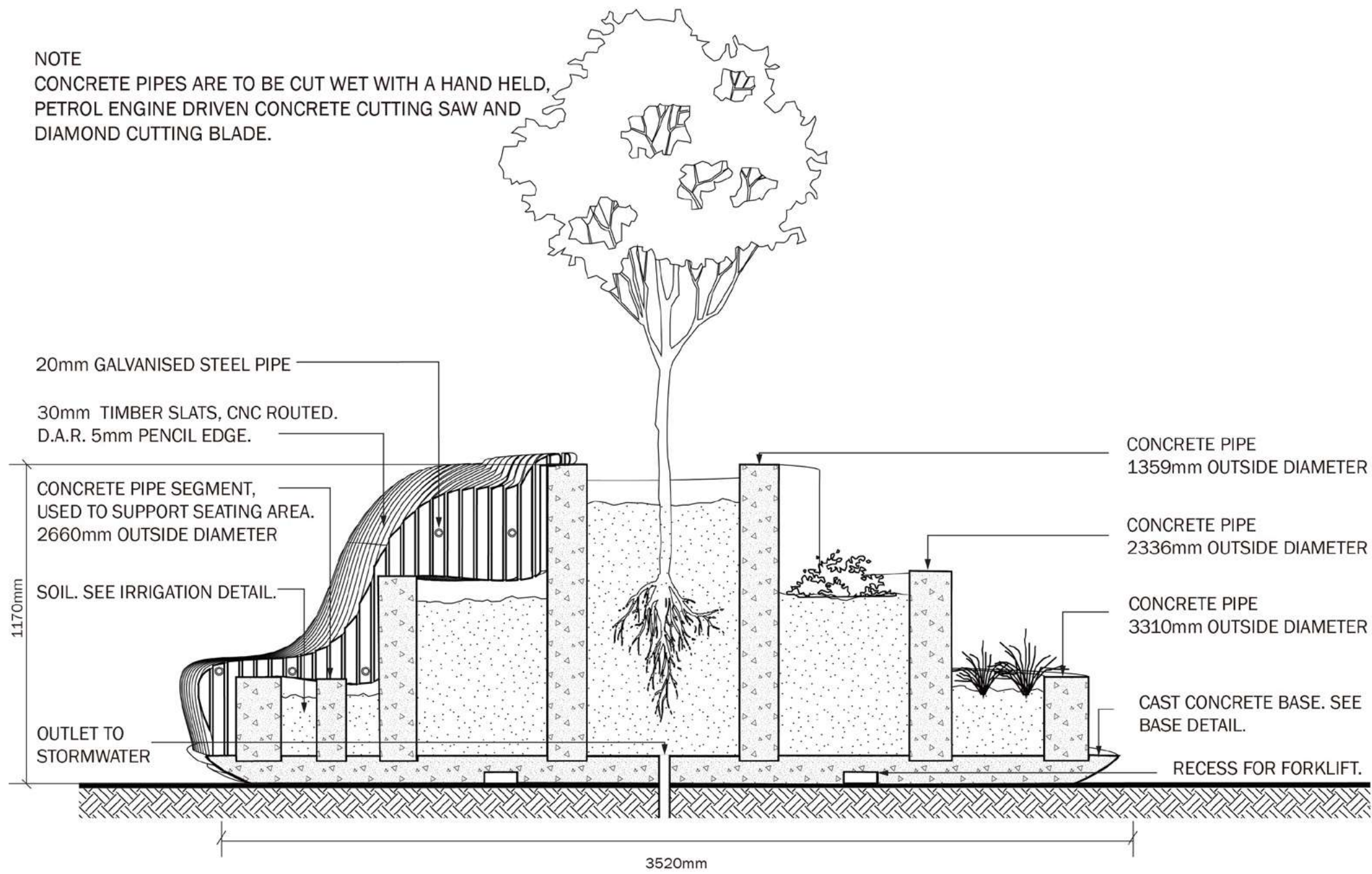




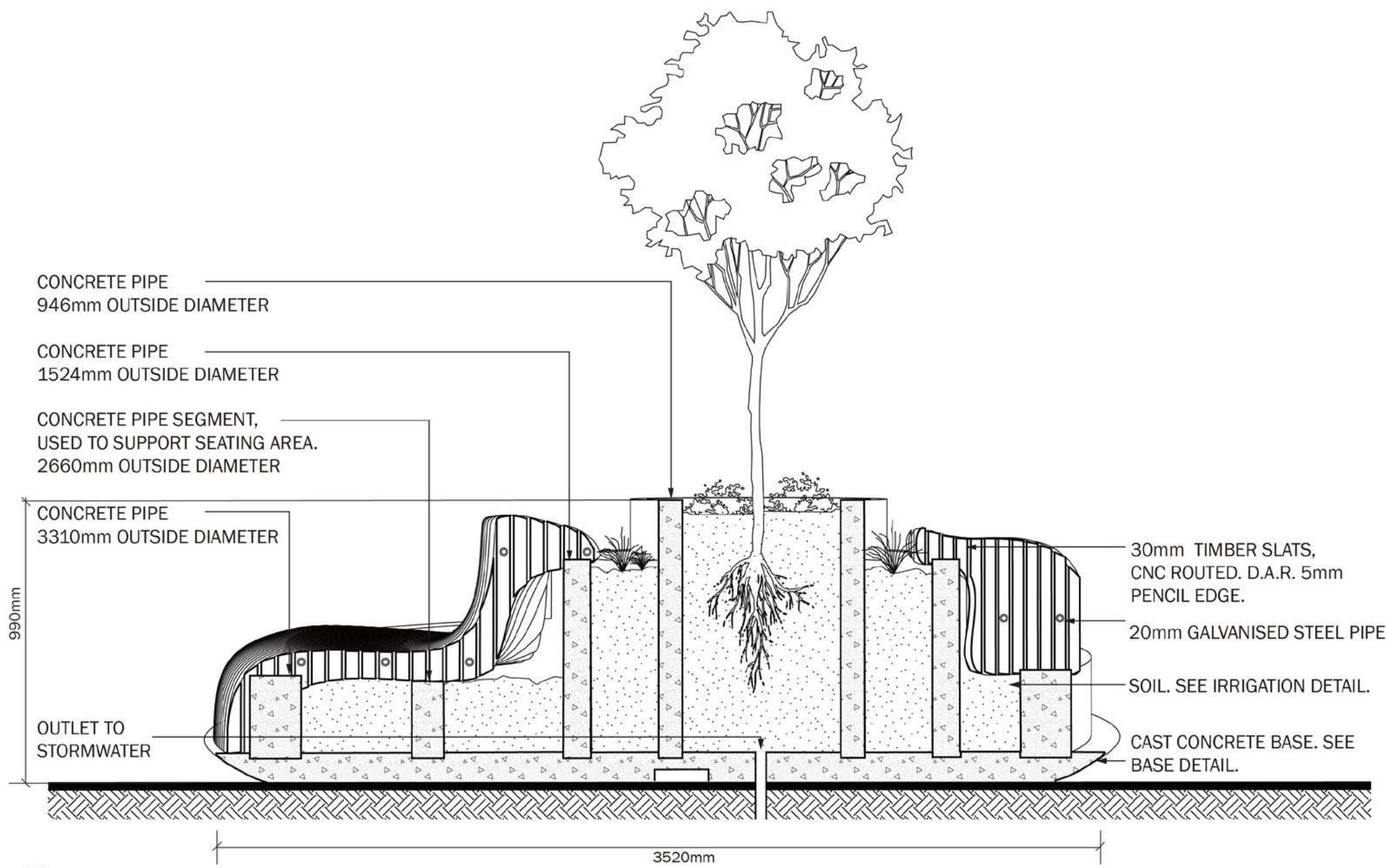
						
	800 mm 946 mm					
	600 mm 1357 mm					
	1200 mm 1524 mm					
	600 mm 2336 mm					
	200 mm 2660 mm					
	400 mm 3310 mm					

CONSTRUCTION DRAWINGS

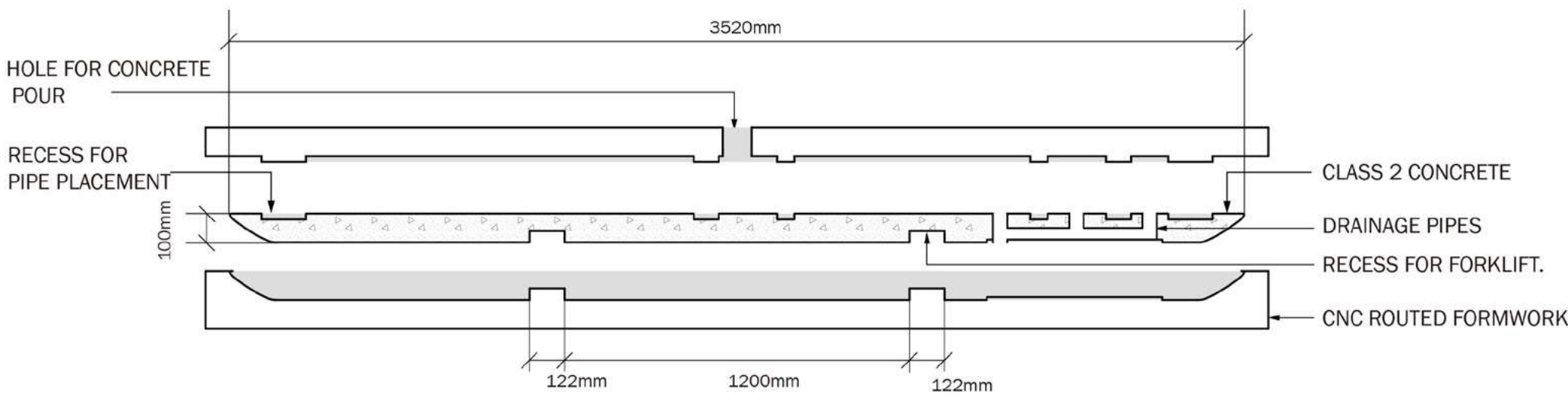
NOTE
CONCRETE PIPES ARE TO BE CUT WET WITH A HAND HELD,
PETROL ENGINE DRIVEN CONCRETE CUTTING SAW AND
DIAMOND CUTTING BLADE.



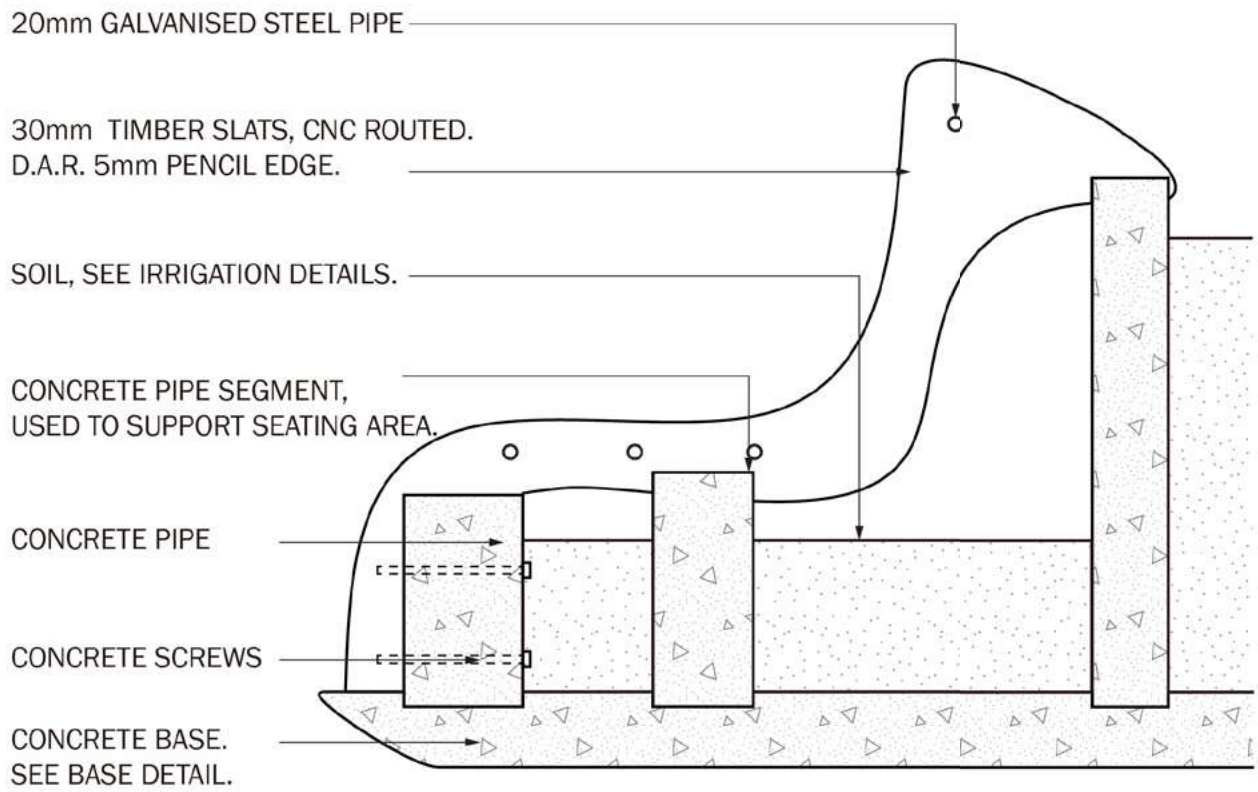
1 PLANTERS 1 -SECTION
SCALE 1:20



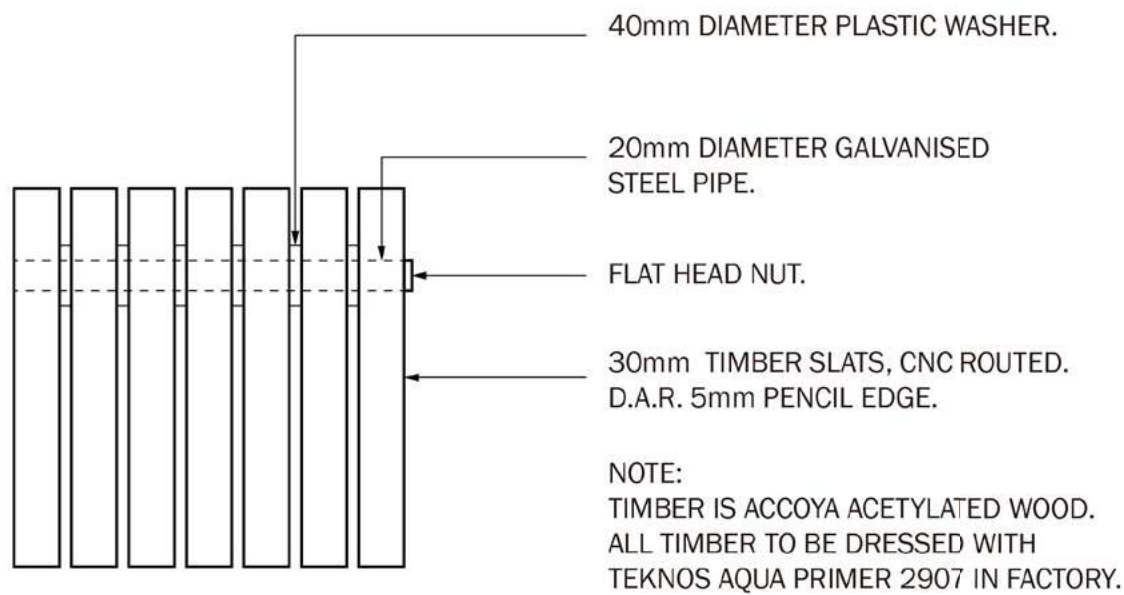
2 PLANTERS 2 -SECTION
SCALE 1:20



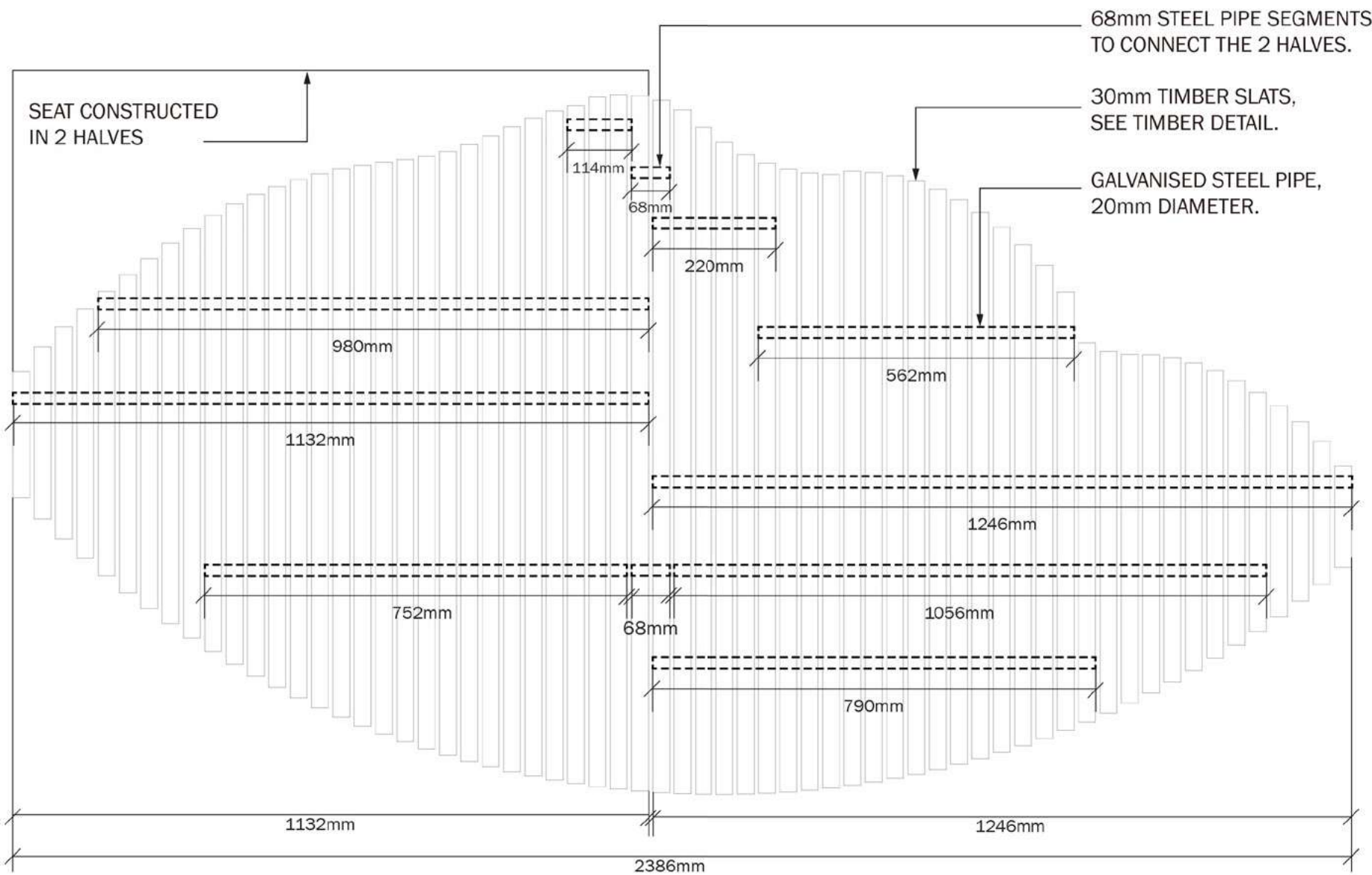
3 BASE DETAIL -SECTION
SCALE 1:20



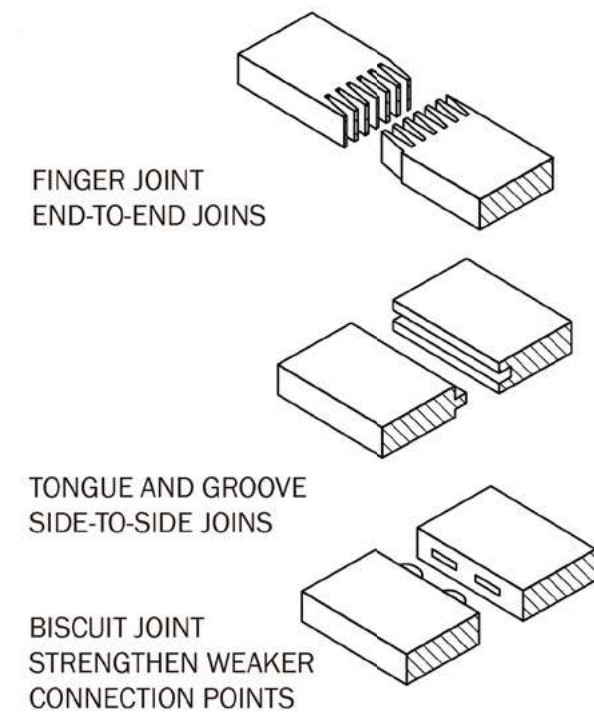
4 TIMBER CONSTRUCTION -SECTION
SCALE 1:10



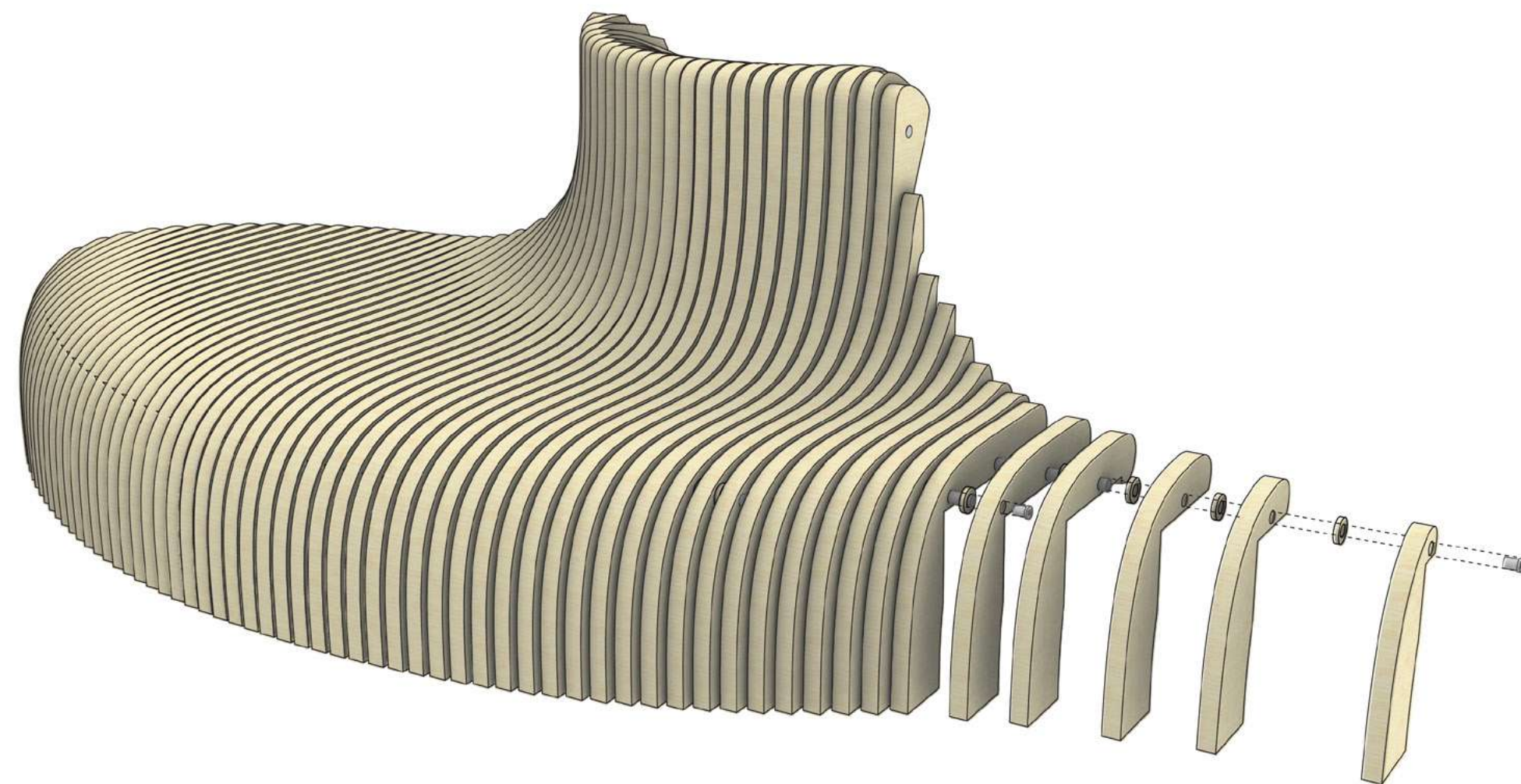
5 TIMBER CONNECTION -SECTION
SCALE 1:5



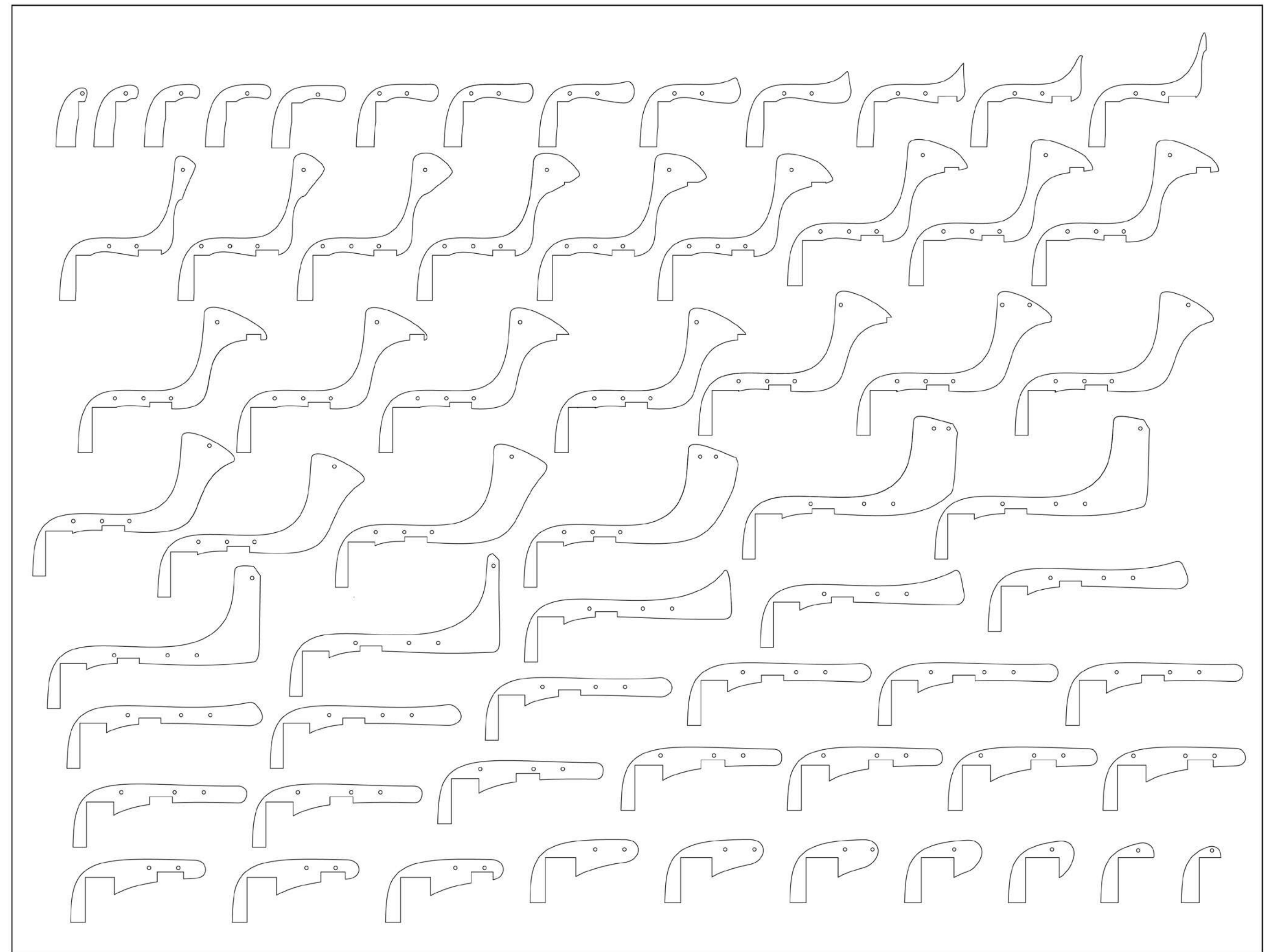
6 TIMBER CONNECTION -PLAN
SCALE 1:10



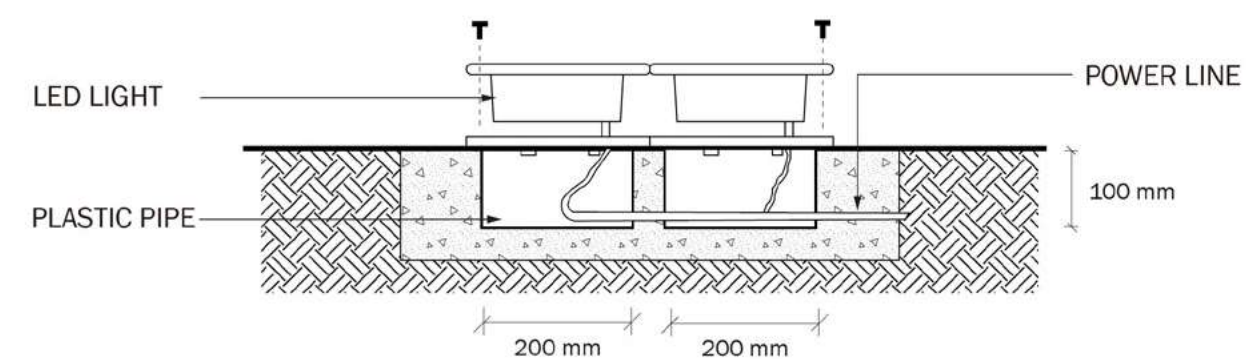
11 ACCOYA TIMBER JOINTS-AXONOMETRIC
SCALE 1:10



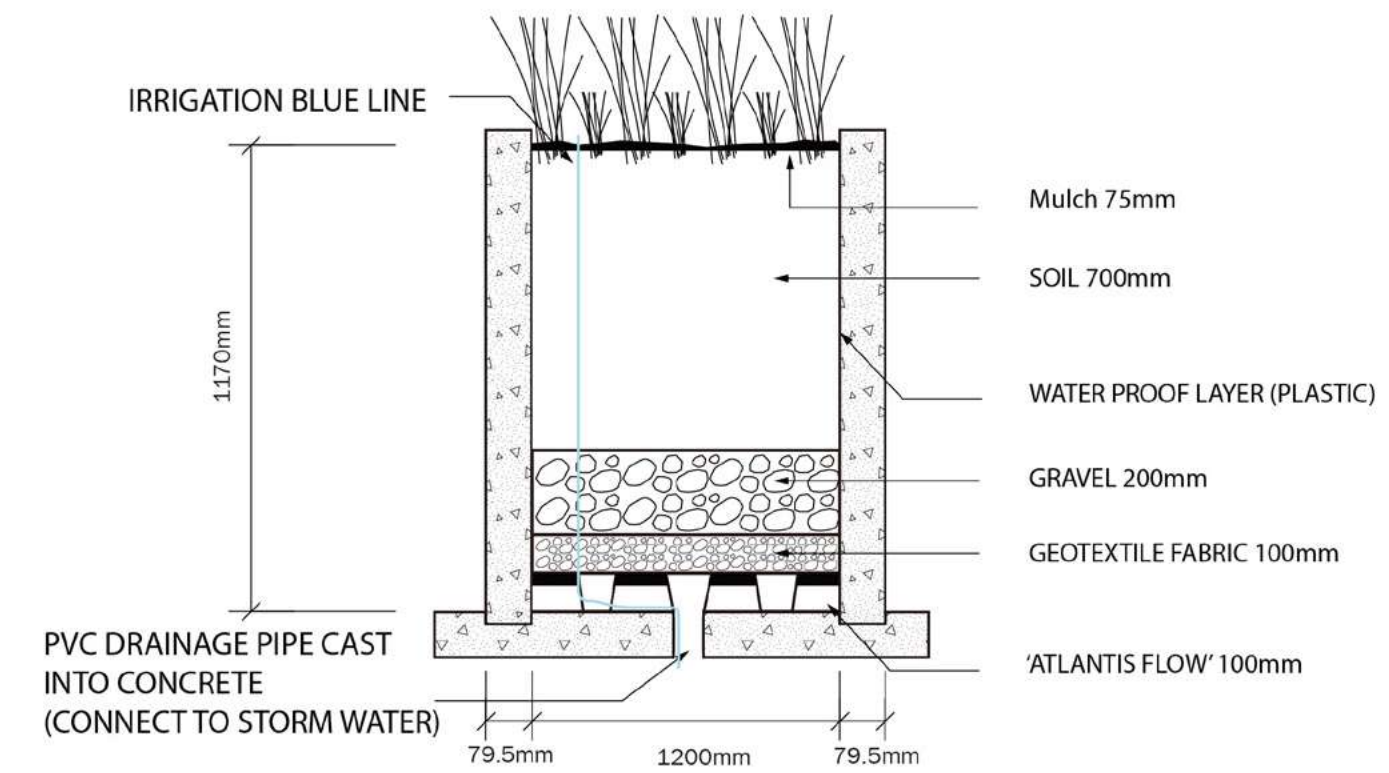
8 TIMBER CONNECTION -PERSPECTIVE
SCALE 1:5



7 CNC ROUTED PIECES FOR 1 X SEATING -SECTION
SCALE 1:20



9 GROUND DETAIL -SECTION
SCALE 1:20



10 IRRIGATION DETAIL -SECTION
SCALE 1:10

PLANTS

HABITS: SEMISHADE TO FULL SUN
REPLACEMENT EVERY 3-5 YEARS



Lomandra 'Tanika'



Ficinia nodosa



Acacia redolens



Kleinia mandraliscae



Acer palmatum 'Dissectum Seiryu'

