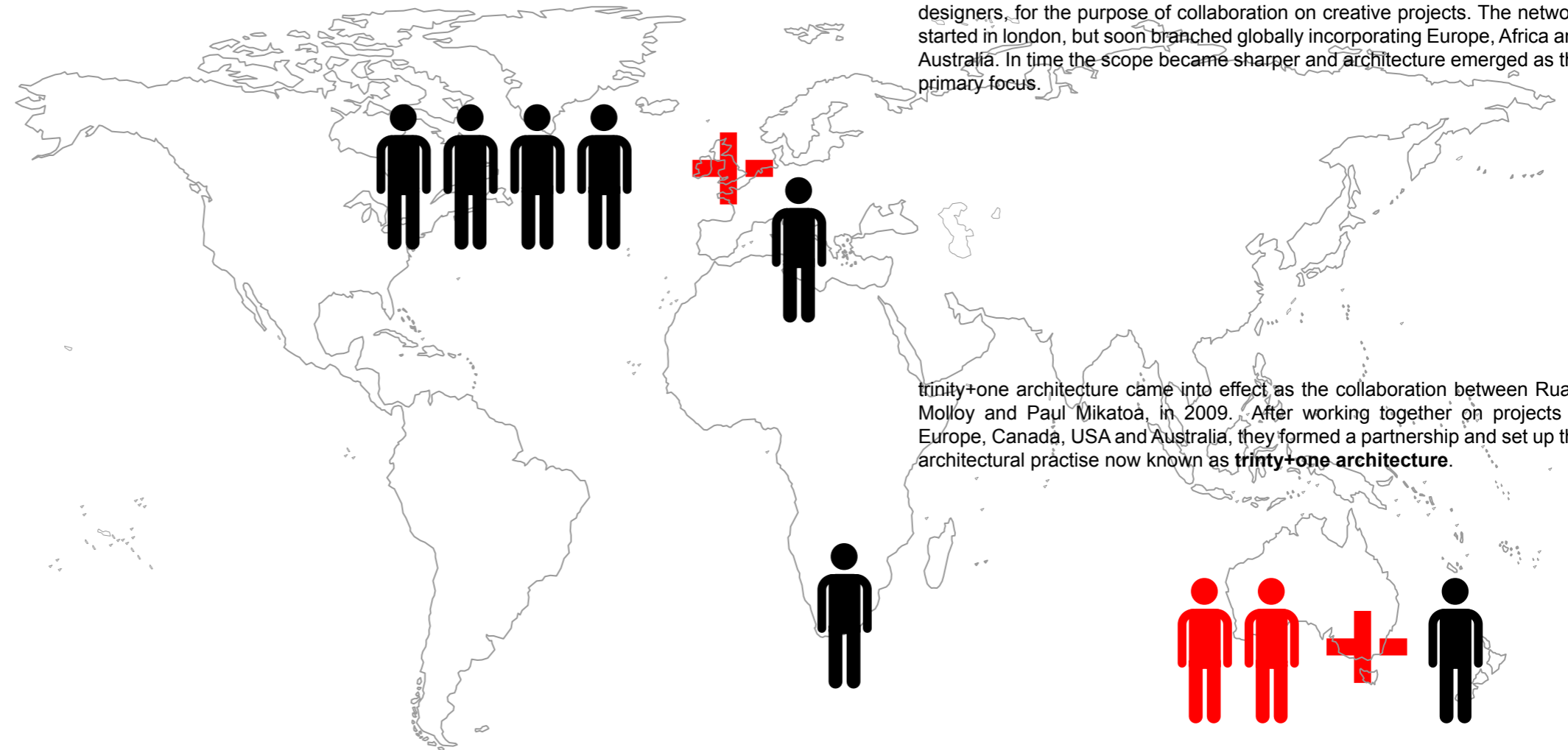


masterplanning
architecture
structure
civil

**‘Delivering high quality design
through creative collaboration’**

What is trinity+one

who we are and where we came from



trinity+one originated in 2004 as a networked community of architects and designers, for the purpose of collaboration on creative projects. The network started in London, but soon branched globally incorporating Europe, Africa and Australia. In time the scope became sharper and architecture emerged as the primary focus.

trinity+one architecture came into effect as the collaboration between Ruairi Molloy and Paul Mikatoa, in 2009. After working together on projects in Europe, Canada, USA and Australia, they formed a partnership and set up the architectural practise now known as **trinity+one architecture**.

The key to the success of trinity+one architecture is the significant collaborative network from which it draws its expertise. The extensive knowledge and skill base enables us to create teams tailored to the job, be it strong documentation or highly advanced digital design skills. It allows us to create strong custom-made teams which are project specific thus ensuring that the best people are working on your project.

At trinity+one we aim to provide innovative and syntactic solutions to design challenges. Irrespective of the size of the project the same attention to the design process will take place.

At trinity+one we have coined the term "essd"- environmental and social sustainable design. This pushes sustainability from a purely construction and environmental context into the realm of sociology. We believe that to make a design truly sustainable, it must also be sensitive in the larger framework of community, be it local, national or global.

Design Philosophy

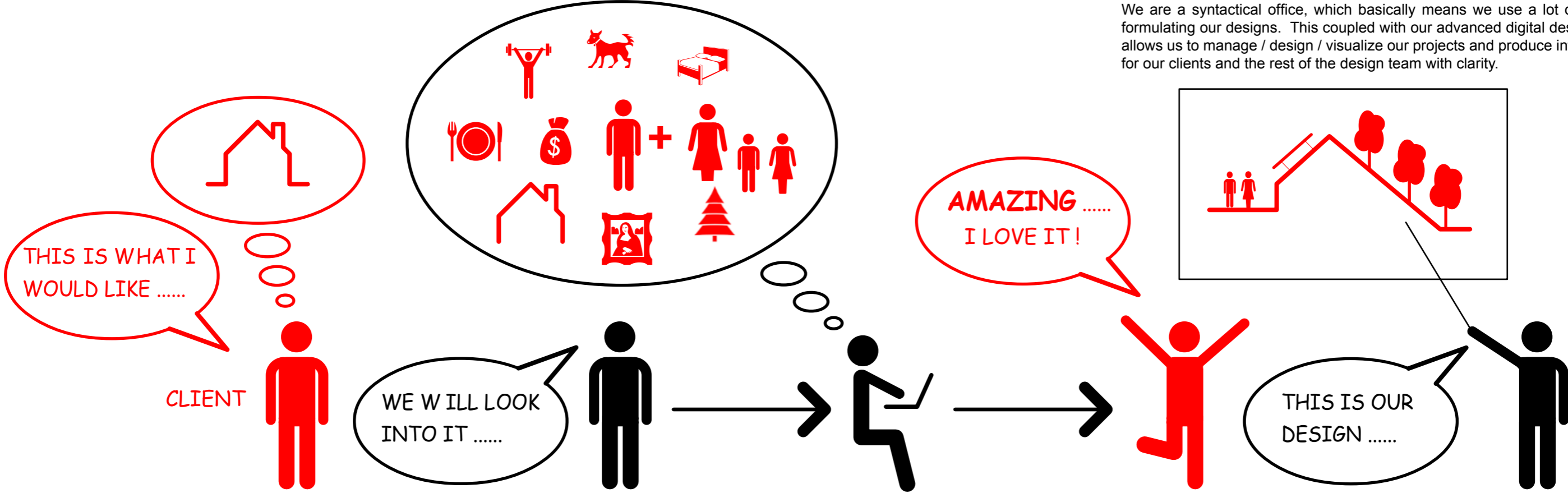
progressive design and creative collaboration

At trinity+one we have a simple design philosophy. That is to provide creative design solutions for our client that responds to their brief.

The process we take with our projects starts with selection of people with the right skills for the job. Since one of the important aspects our design philosophy is creative collaboration this stage is crucial for us. We try to vary our design set by drawing upon the trinity+one network, that way we don't always use the same set of techniques. This makes our designs more specific and unique.

Often many offices have an off the shelf design policy, whereby they take a similar or previous project they have done before and just try to make it fit on a new site. At trinity+one we don't believe in this. We believe each project is different and requires a specific design.

We are a syntactical office, which basically means we use a lot of data in formulating our designs. This coupled with our advanced digital design skills allows us to manage / design / visualize our projects and produce information for our clients and the rest of the design team with clarity.



We also offer our services in the form of building information modeling (bim) 3d, standard computer aided drawing (cad) 2d and advanced parametric modeling. It is with this advance skill set that we can offer a very comprehensive service to our clients.

With all these skill sets aside, our basic mantra is to provide our clients with a creative design solution which responds to the client's needs and requirements, with a reaction to the site and the environment.

ESSD

environmental and socially sustainable design

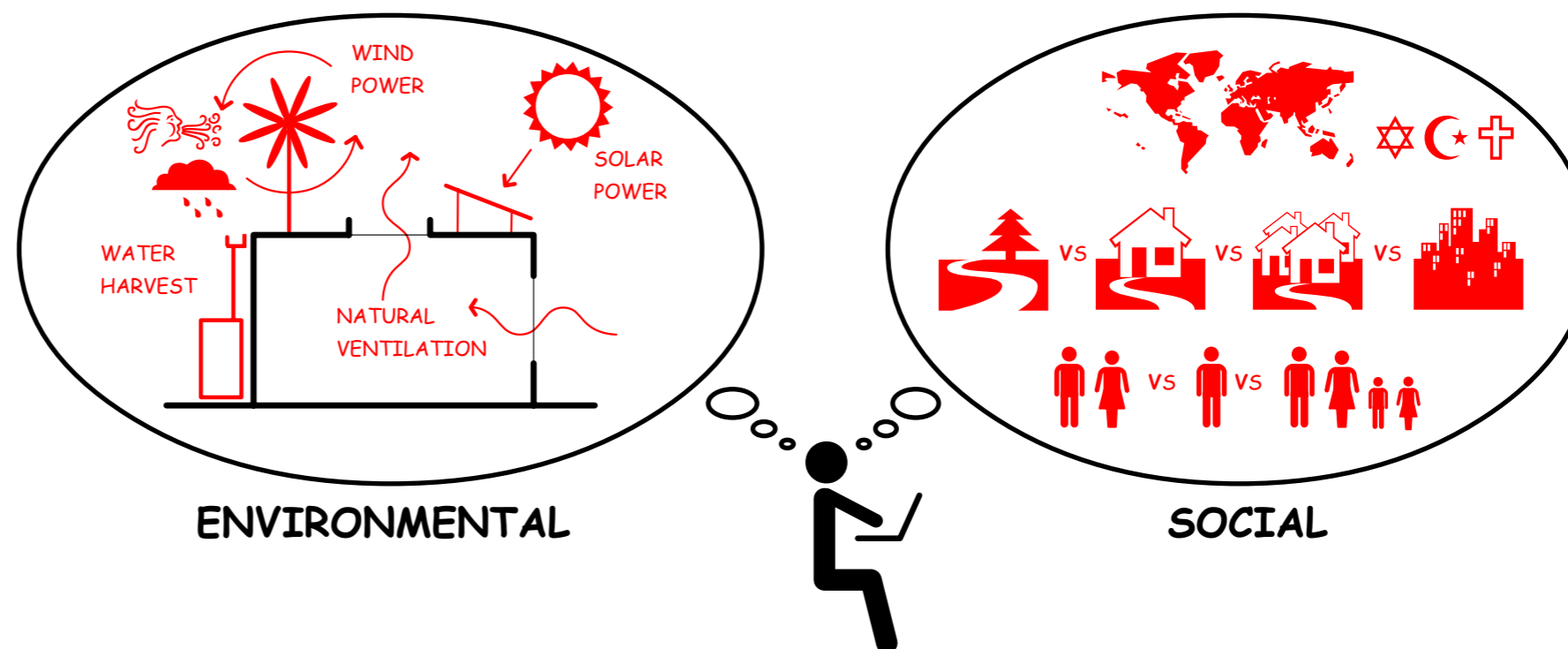
trinity+one has coined what we refer to as essd. For those of you familiar with esd (environmental sustainable design), we are just taking the next step. For us esd is obvious and essential, what is missing and so often overlooked by other designers is the social agenda.

Hence essd (environmental and socially sustainable design)

So what are we talking about ?

Basically with all of our designs, we look at the impact of the project not just on the environment, but we also look to see what the impact is socially, whether that is on a local, national or global scale. We also take the opposite and see what impact these surrounding influences have on our projects. We find this is key to true sustainability.

Many practises will sell themselves on the environmental properties of their design approach and their process at trinity+one we see this as a given, to us this is the easy part, where we see the fundamental gaps in design today is how buildings affect people outside the site.



We have seen too often how this is ignored, and how bad the consequences can be in the aftermath. So as part of our practise beliefs, we are happy to advise our clients as to the best design proposal we think is right, whether that involves building something, or not building anything at all !

derek kinsella

BSc(Eng), Dip Eng, Civ Eng Tech, RBP

principal structural & civil

Having been involved in the construction industry for over 27 years Derek has considerable experience in the design of offices, commercial, residential, institutional and leisure projects requiring a familiarity with a broad range of construction methods and materials. He has led both new build and refurbishment projects.

During his early career in Ireland he twice won the G&T Crampton centenary award for the engineer most likely to make a significant contribution to the construction industry. He worked for Arup in Ireland before transferring to their Melbourne office in 2000. Derek spent time working for Beca and Robert Bird Group prior to his integration with Trinity+one.

His skills include all aspects of design of structures using either manual or computer aided design processes and he has excellent familiarity with the use of computer aided drafting. With a keen interest in lightweight structures he has been involved with several projects with the Arup facades group. He has carried out peer reviews of multistory residential towers and carries out independent checking and design of temporary structures for major building contractors.



ruairi molloy

b(a) dip ma architecture

principal architectural documentation

After studying and working in the uk ruairi moved to Australia in 2006.

Ruairi's approach involves high quality, syntax based design produced via a process of innovative solutions and creative collaboration.

Specialising (with a masters) in advanced digital design systems, he has worked for a number of high profiled Australian practices, leading both design and documentation roles.

In a previous life he trained as an architectural documenter, this coupled with his experience on site gave him the skills and experience to deliver and manage projects later in his career.





paul mikatoa

b(a) architecture

principal architectural design

Paul is a registered architect in Australia, having relocated here in 2005 from Auckland, NZ.

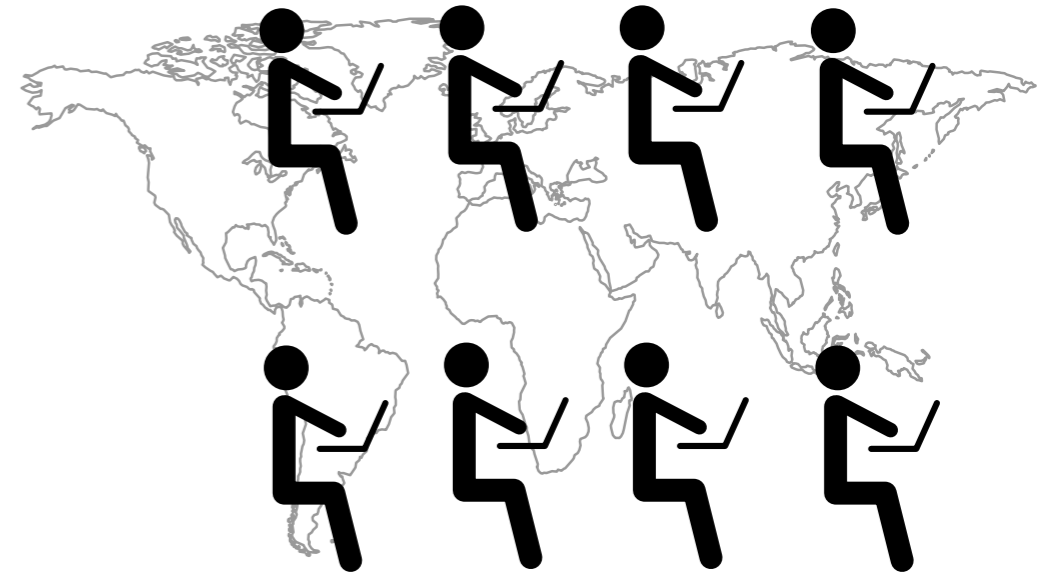
He completed his bachelor of architecture in Auckland, and is a registered member of the Australian Institute of architects. with experience in high end residential, civic, educational and commercial projects, he later joined gregory burgess architects, as a project architect leading teams on residential, education and performance projects.

His skills in coordinating documentation packages for complex building types and his sharp eye for construction detailing with his proven technical knowledge has proved effective in high quality project delivery.

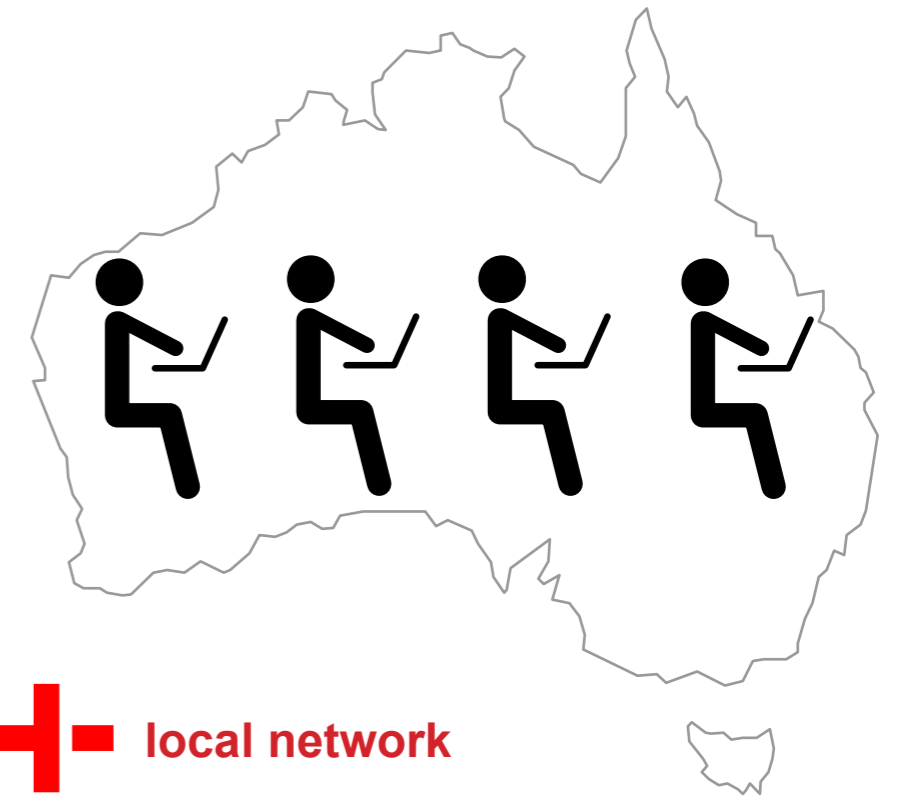
He has a strong interest in social and environmental sustainable design, innovative building technology, and construction procurement. His expertise lie in developing high end designs through to completion, and are based on his skills in client liaison, design, documentation and construction procurement.

People

principals and resources



+ global network



+ local network

Design Services

Architectural

trinity+one offers a full range of architectural services. These are outlined as follows.

feasibility (f)

trinity+one will help advise the client on preparation of a brief, scheduling of the project.

sketch design (sd)

trinity+one will help prepare design options in conjunction with briefing requirements including cost options.

town planning (tp)

trinity+one will prepare documents and applications for relevant planning authorities if required.

design development (dd)

trinity+one will prepare detailed documents and drawings, including materials, fittings and associated costs.

contract documentation (cd)

trinity+one will produce technical drawings and specifications for construction to obtain a building permit.

tender (t)

trinity+one will prepare a document package for the tender process. we can also help the client with negotiations with a builder selection.

contract administration (ca)

trinity+one can advise the client of the most suitable contract for the project. we can liaise with the builder to access the quality of work, we will keep the client aware of progress and variations, certify progress payments and decide when practical completion occurs. please note that trinity+one will not supervise building works.

defects and liability (dl)

trinity+one will help identify defects and administer their rectification.

The scope of these services may vary depending on the requirements of the client and the specificities of the agreed engagement between trinity+one and the client. This scope will be agreed and negotiated before commencement of architectural services.

trinity+one is available for engagement for any and all of these services. Please contact us for further information, and arrange a meeting to discuss engagement possibilities.

Consultation Services

trinity+one offers a full range of architectural and design services to other architects and consultants.

Because trinity+one specialises in delivering high end advance design solutions, we are positioned to offer these skills and services to other practices who have the projects and want to upgrade their designs.

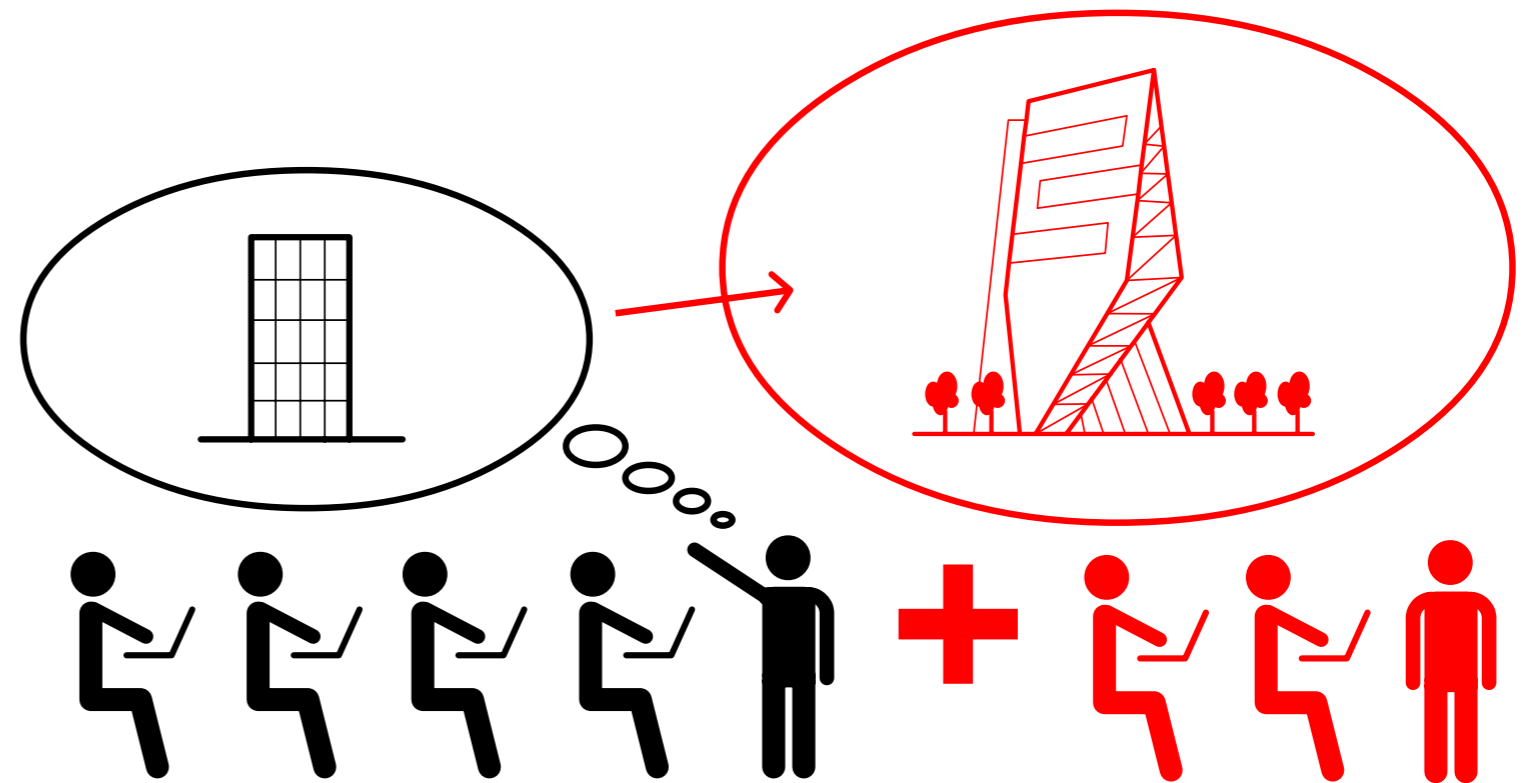
Some of the services to consider are:

sketch design and design documentation

We can help to collaborate on the project design, our design philosophy means we usually operate with 3d models to help us understand the design direction. the earlier we are brought onto the project, the more coherent we can keep the project through the design phase.

contract documentation

From our experience with advance design, we have found that we have had to produce some advanced models to help understand the construction and manufacturing. For us this process can involve both parametric and generative parametric modeling.



If you would like an explanation of the systems we use and how we can compliment your services with ours, please contact us.

Documentation Services

trinity+one offers a range of documentation options. To learn more about these options, please take a look at the trinity+one documentation book by clicking on the link below. A brief outline of the services we offer are listed as follows

[click for trinity+one documentation link](#)

upload

For this service trinity+one staff are available to add our staff to your design team.

download

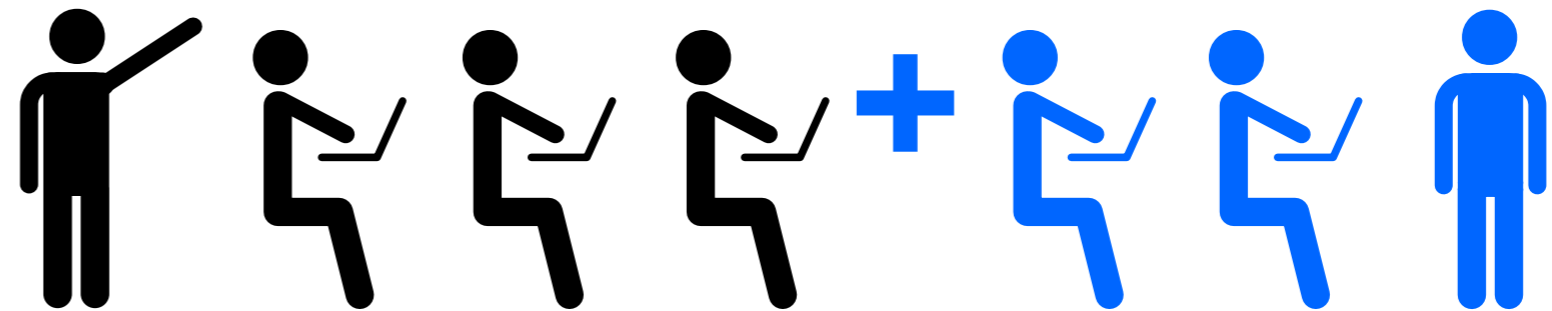
For this service trinity+one will take the project work from you. In this role you become the supervising architect, and trinity+one becomes the project team.

trinity+one staff members are equipped with the following skill set.

bim (revit)
cad (autoCAD, vectorworks)
3d modelling (3d max, rhinoceros, grasshopper, sketch up)
administration (microsoft office, acconex)
graphics (photoshop, illustrator indesign, flash)

CLIENT PROJECT TEAM

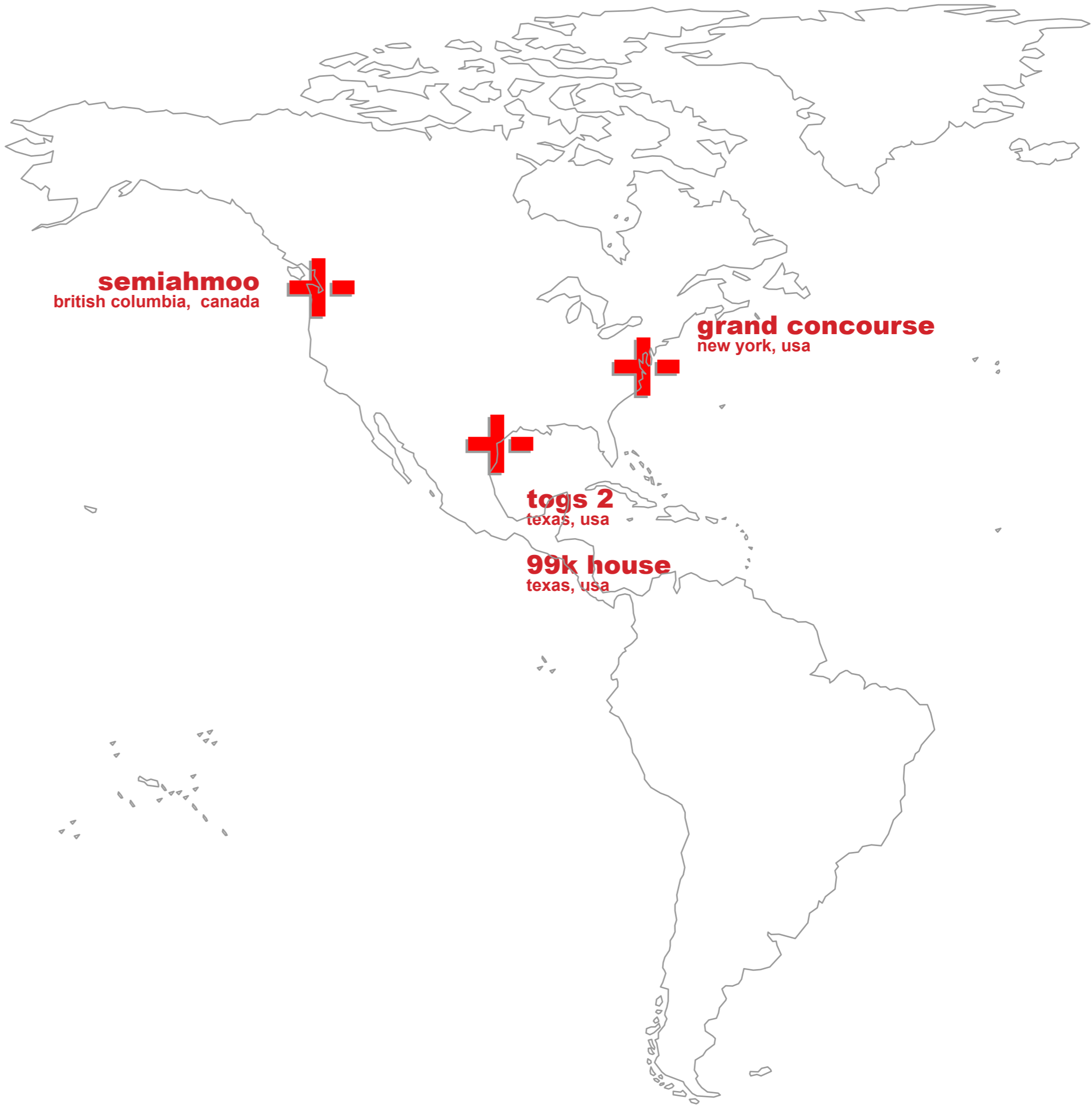
trinity+one TEAM



So why choose trinity+one ?

The answer is simple, we are not another drafting service ! trinity+one is a high end design firm, who have delivered projects for many of Australias top design firms. We have the skills to document high end design solutions and to bring them to reality.

The scope of these services can vary depending on your needs. Its is best to contact trinity+one to see how we can help you with your projects. This scope will be agreed and negotiated before commencement of services.



semiahmoo
british columbia, canada



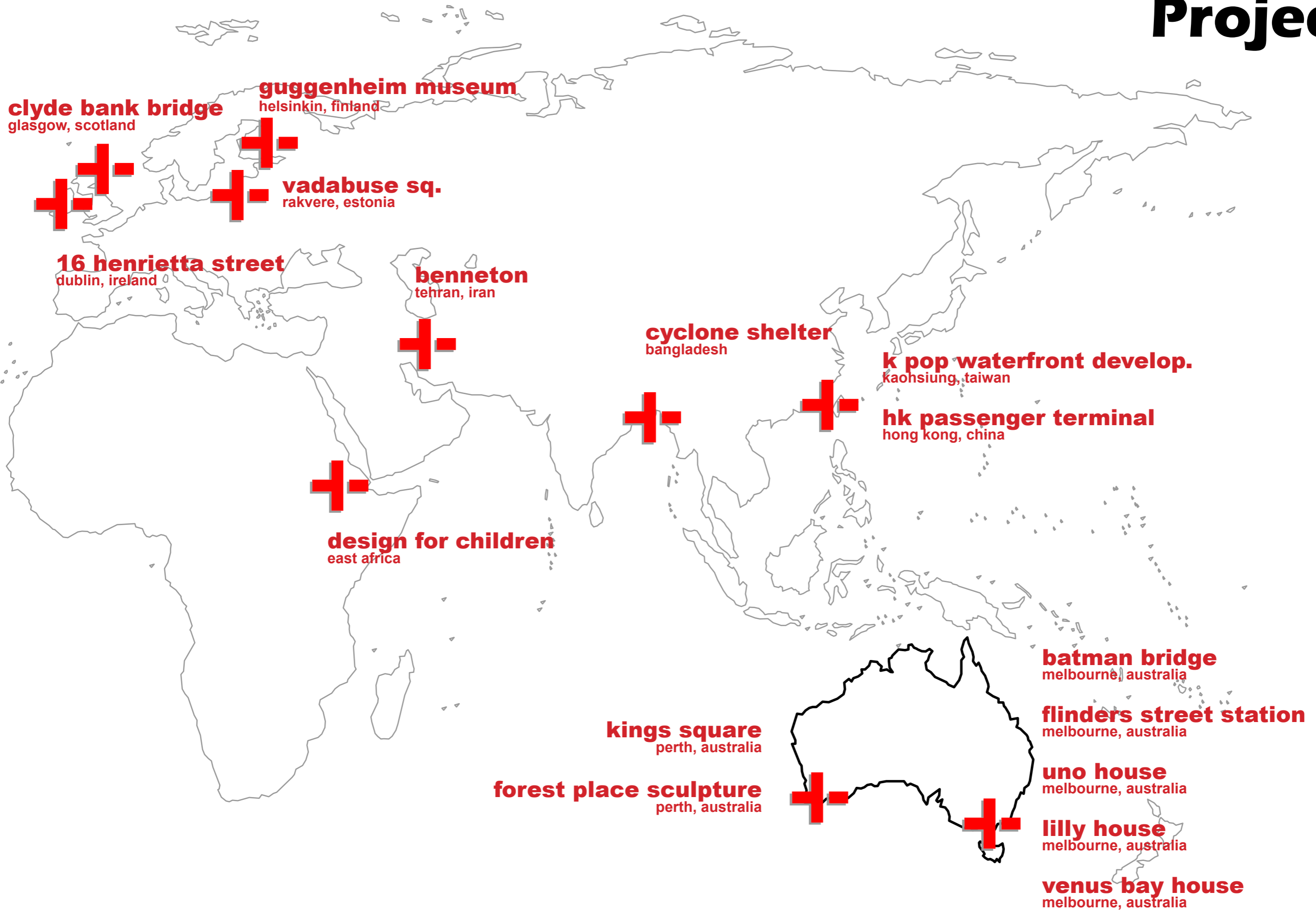
togs 2
texas, usa

99k house
texas, usa



grand concourse
new york, usa

Projects



RIVER PARK
LANDSCAPE LINK BETWEEN SOUTH AND NORTH BANK PRECINCTS



NEW COMMERCIAL DISTRICT
PREMIUM OFFICE / RETAIL HUB AT THE NETWORK CENTRE OF MELBOURNE'S CBD

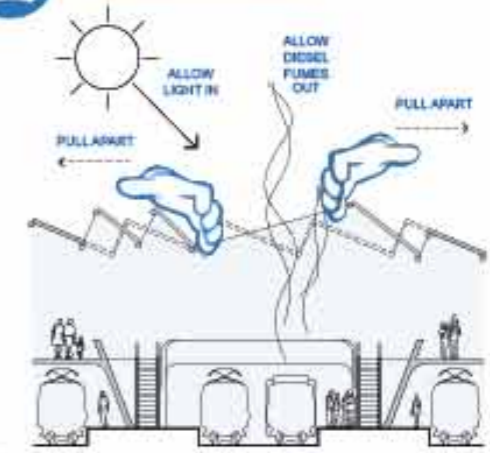
FERRY TOUR DOCK
MELBOURNE TOUR BOAT TERMINAL



HERITAGE STATION BUILDING
EXISTING STATION BUILDING RE-FIT TO HOUSE ADMINISTRATION FOR METRO / RAIL



TRAIN STATION
EXISTING STATION BUILDING RE-FIT TO HOUSE ADMINISTRATION FOR METRO / RAIL



ROOF CONCEPT SKETCH

RIVERBANK INTEGRATION



RIVER BANK PRECINCT

ACTIVE SITE BOUNDARY



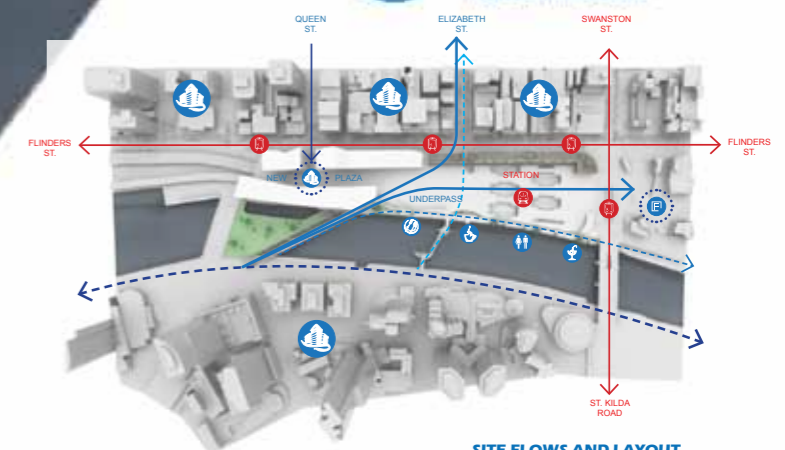
NEW DECK LEVEL TO MATCH FEDERATION SQ.



FED SQ. PRECINCT
MELBOURNE'S CENTRAL SOCIAL SPACE

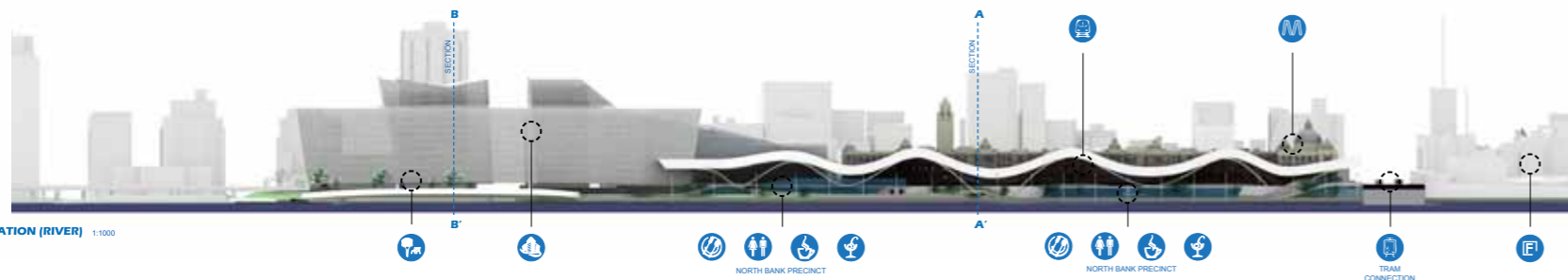


FLINDERS STREET TRAM STOP
TRANSPORT NETWORK LINE



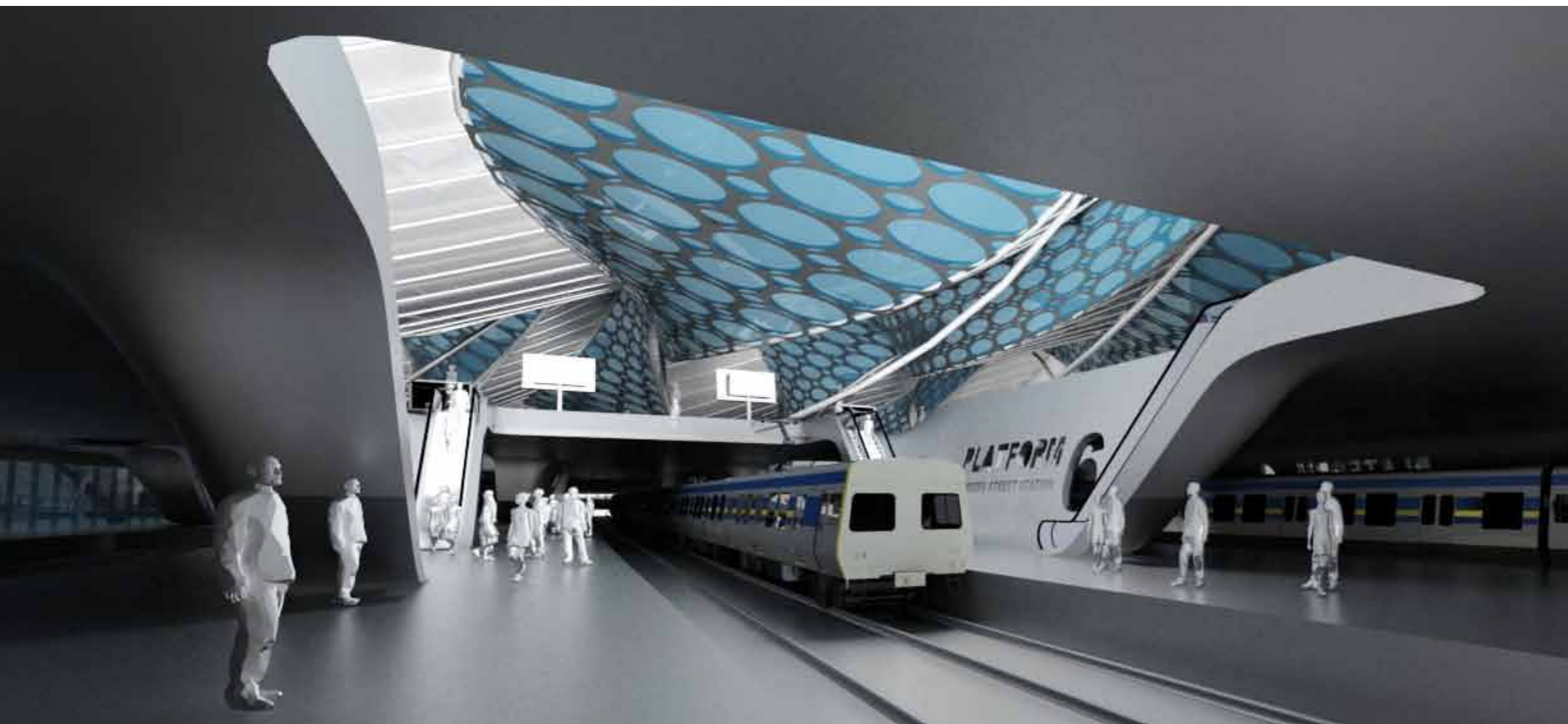
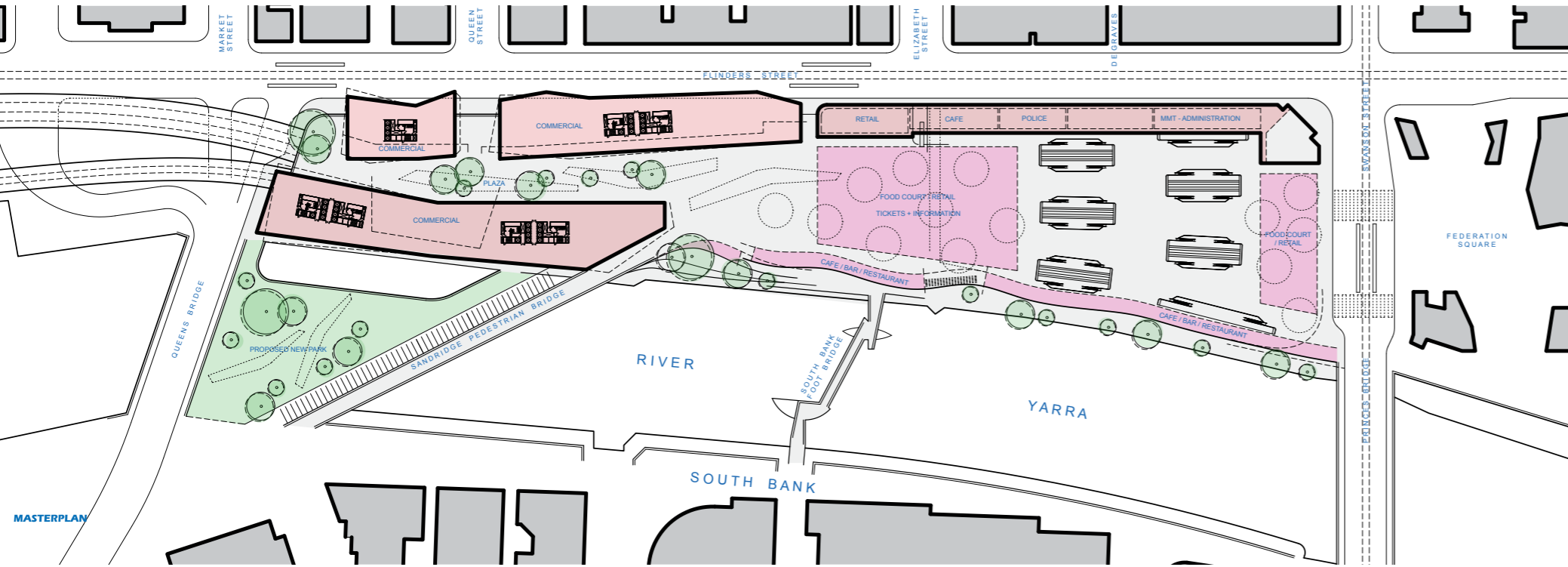
SITE FLOWS AND LAYOUT

SOUTH ELEVATION (RIVER) 1:1000



Flinders Street Station

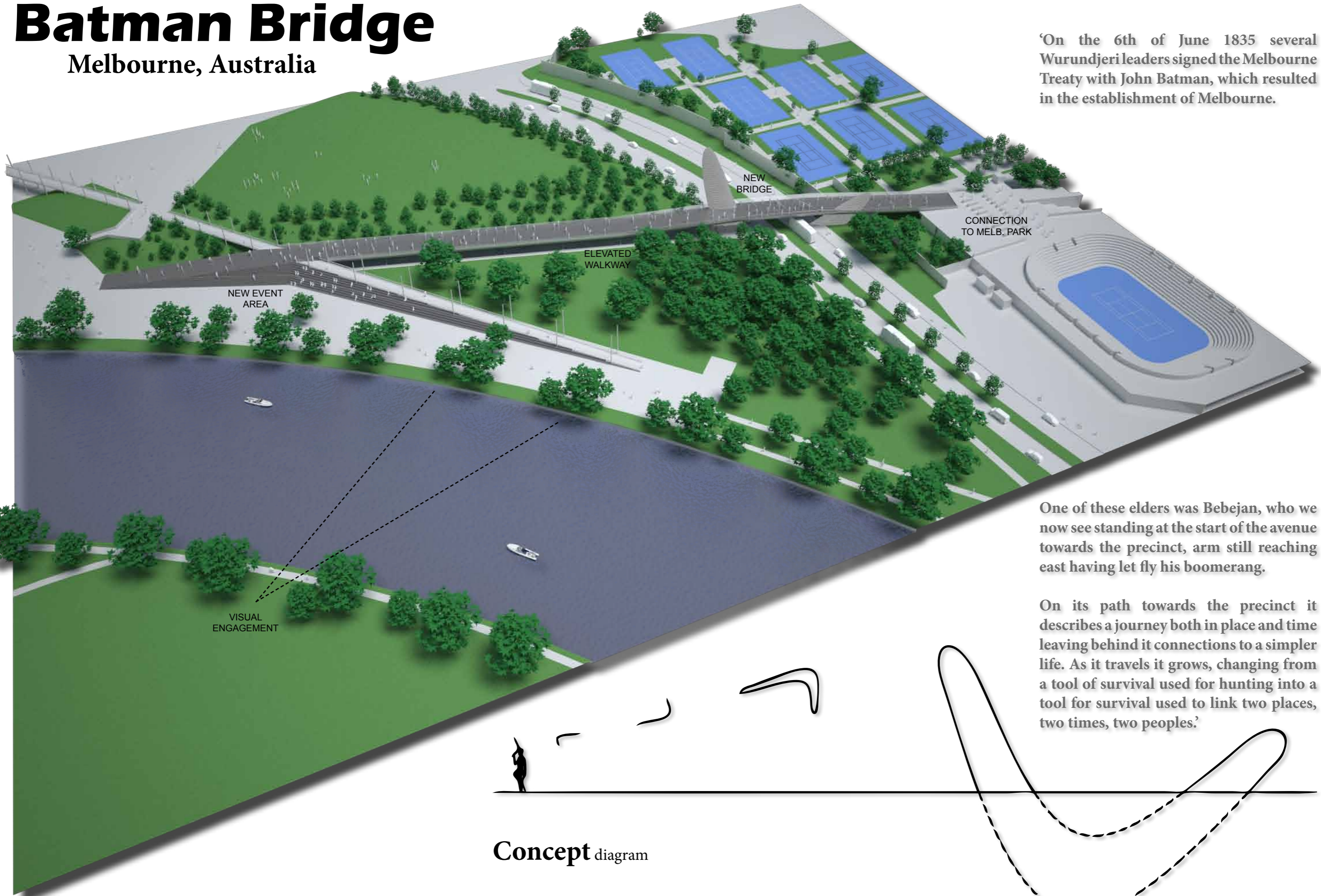
Melbourne, Australia



Batman Bridge

Melbourne, Australia

'On the 6th of June 1835 several Wurundjeri leaders signed the Melbourne Treaty with John Batman, which resulted in the establishment of Melbourne.'



One of these elders was Bebejan, who we now see standing at the start of the avenue towards the precinct, arm still reaching east having let fly his boomerang.

On its path towards the precinct it describes a journey both in place and time leaving behind it connections to a simpler life. As it travels it grows, changing from a tool of survival used for hunting into a tool for survival used to link two places, two times, two peoples.'

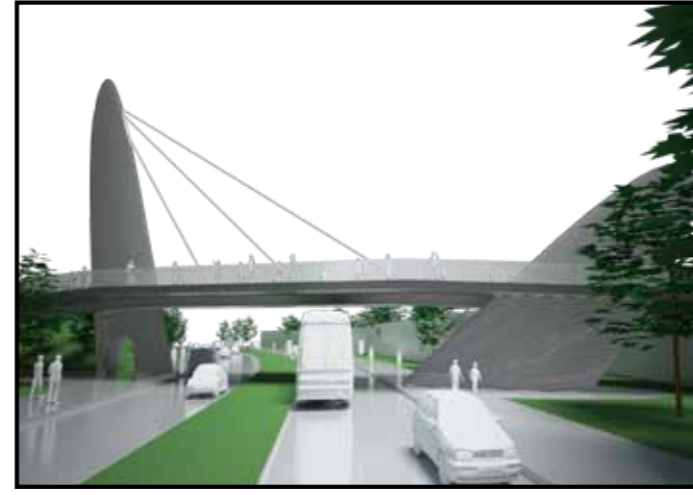
Concept diagram



overview of **Bridge Link**

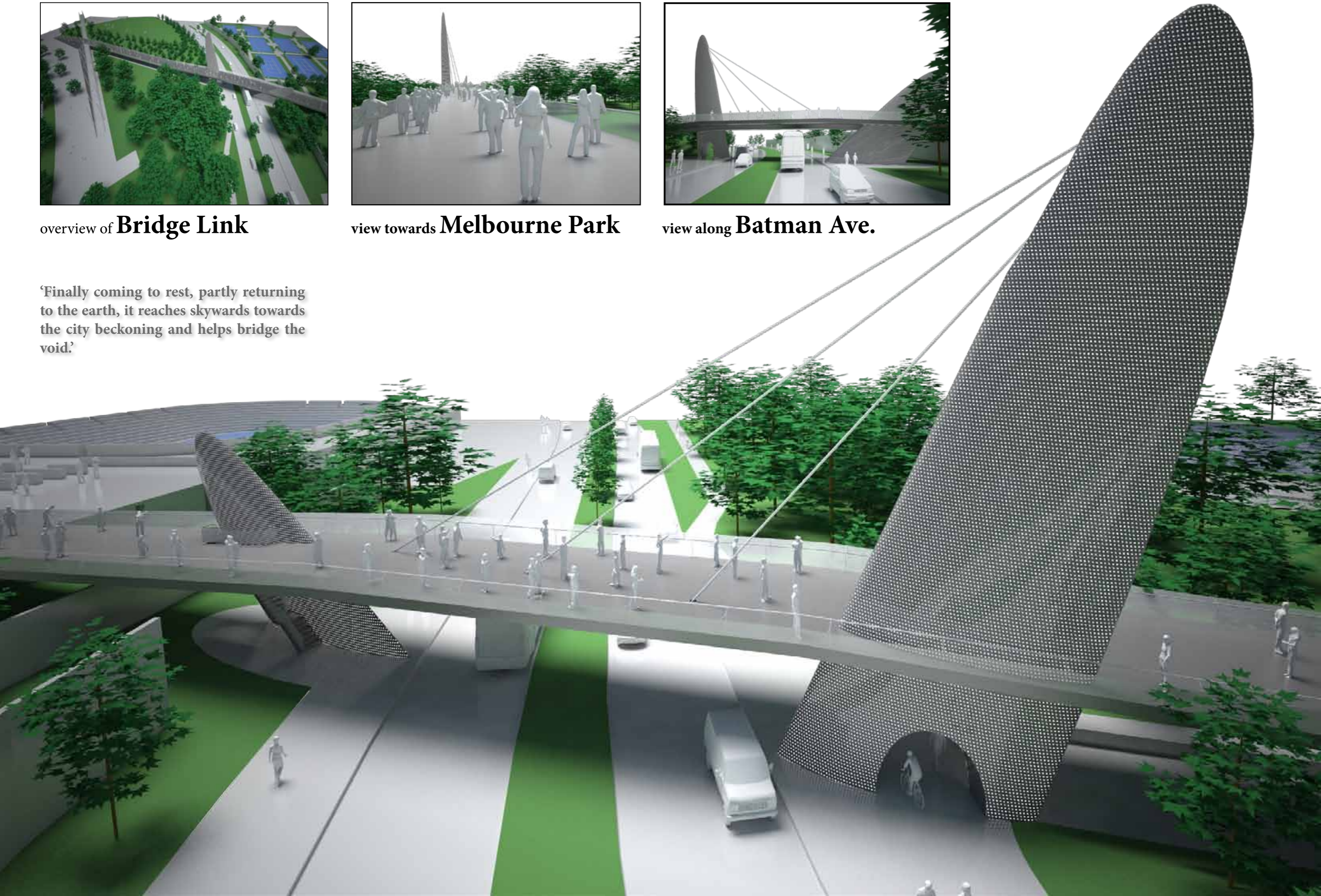


view towards **Melbourne Park**



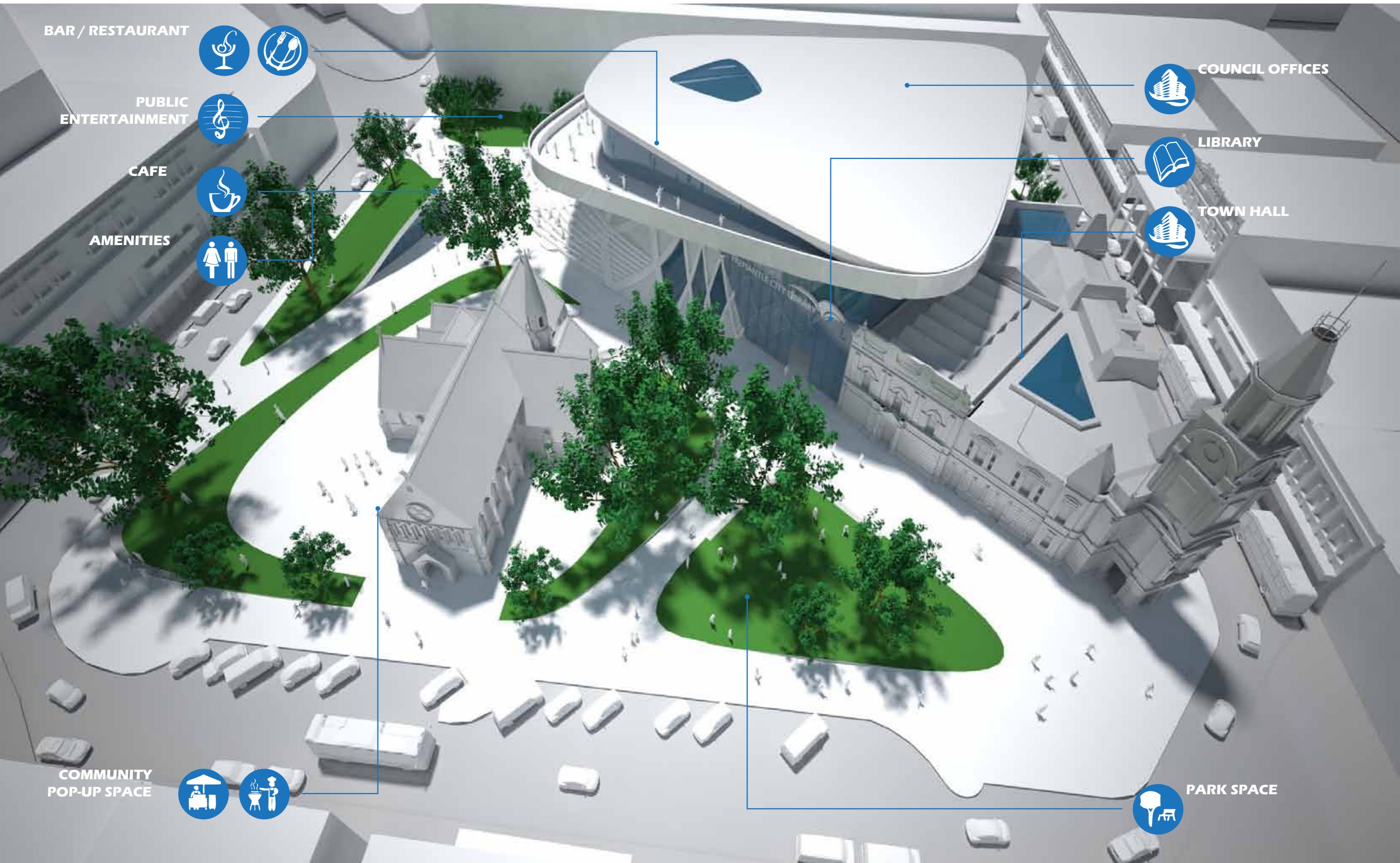
view along **Batman Ave.**

'Finally coming to rest, partly returning to the earth, it reaches skywards towards the city beckoning and helps bridge the void.'



Kings Square

Perth, Australia



BAR / RESTAURANT



PUBLIC ENTERTAINMENT



CAFE



AMENITIES



COUNCIL OFFICES



LIBRARY



TOWN HALL

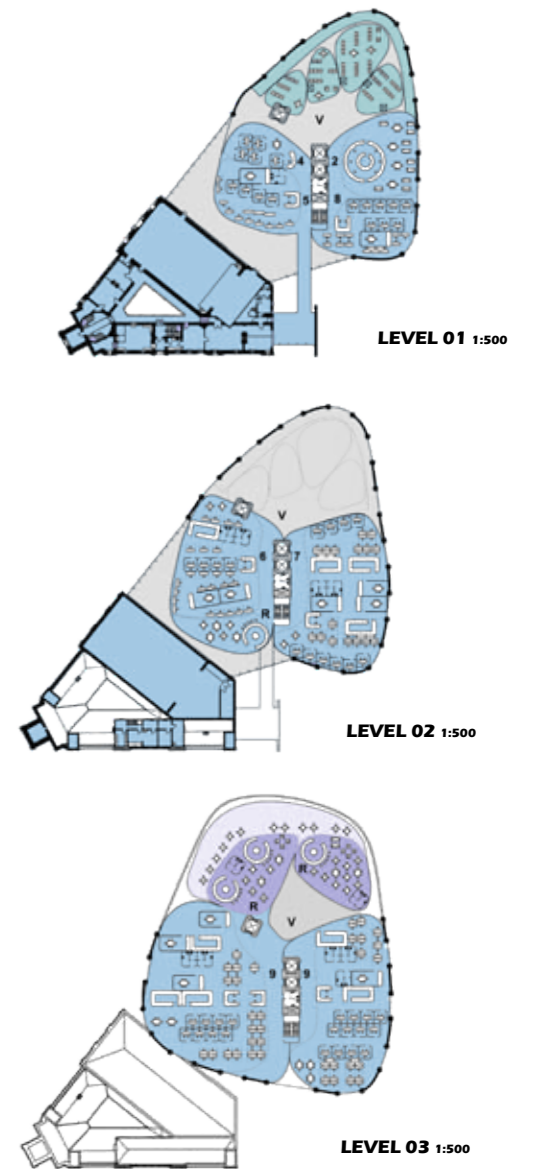
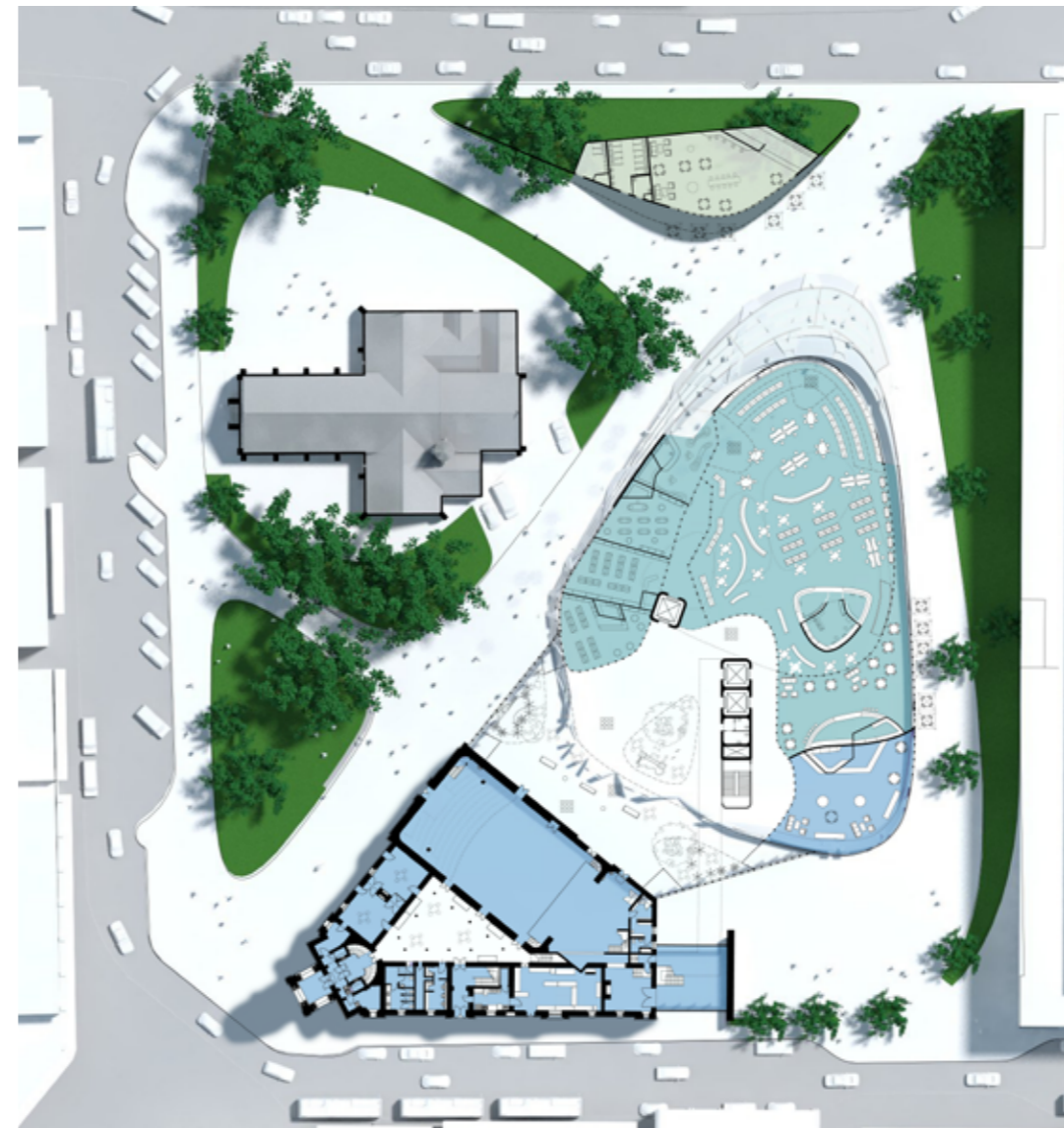
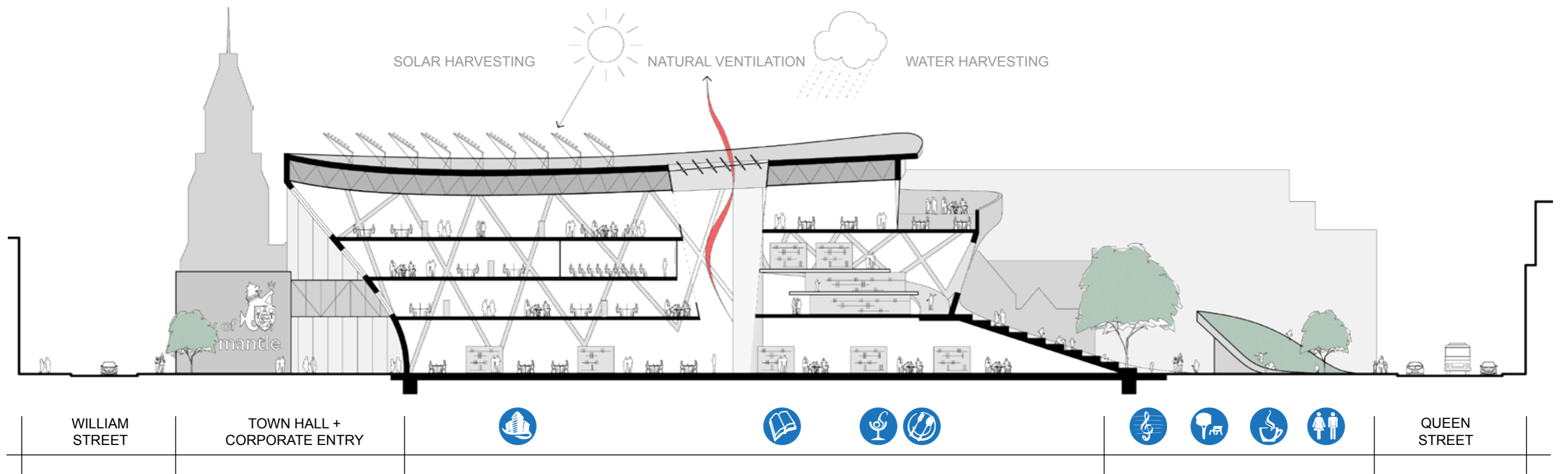


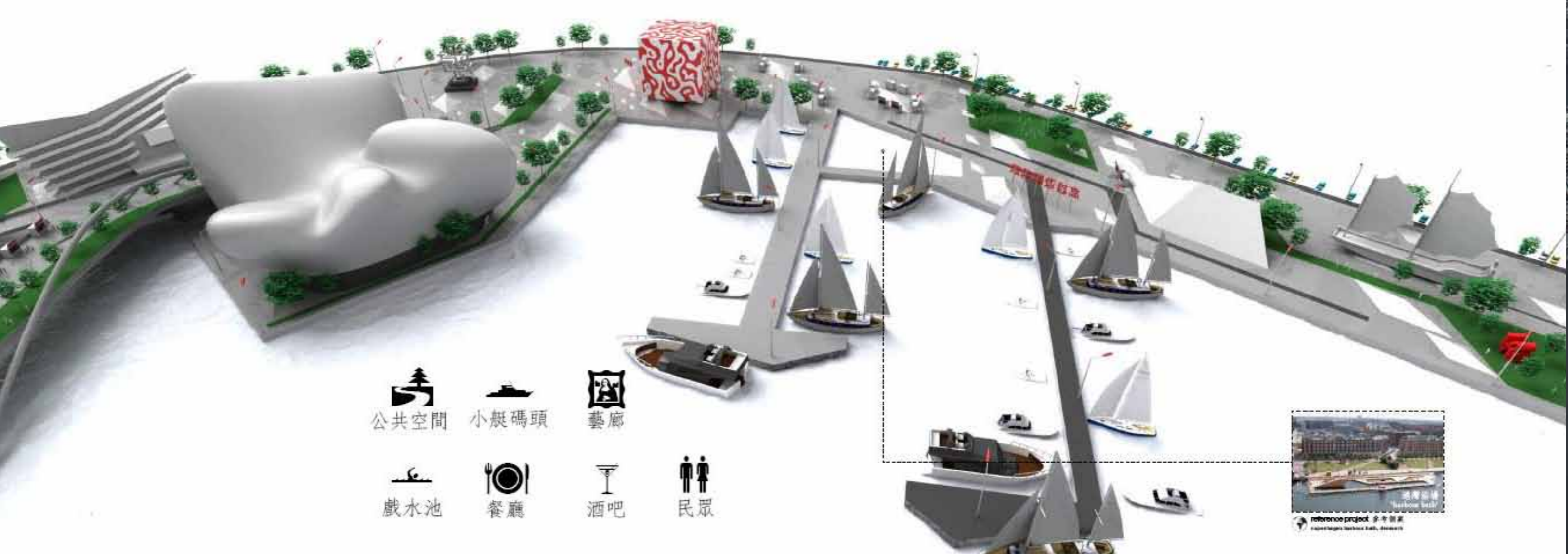
COMMUNITY POP-UP SPACE



PARK SPACE







-  公共空間
-  小艇碼頭
-  藝廊
-  戲水池
-  餐廳
-  酒吧
-  民眾



-  音樂
-  公共空間
-  餐廳
-  酒吧
-  民眾
-  劇院



節慶公園
festival park

景觀剖面圖 landscape section

Waterfront Development

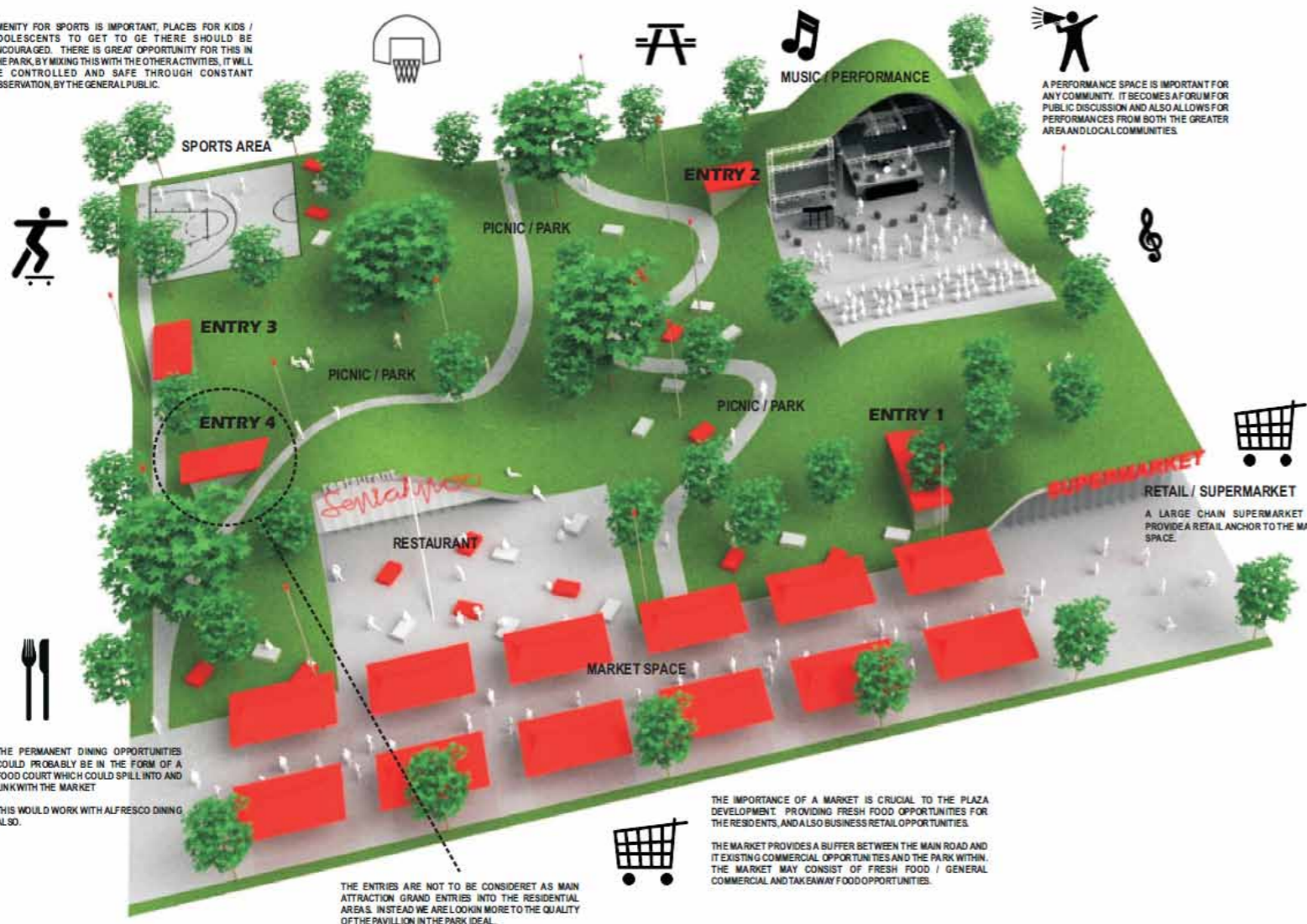
Kaohsiung, Taiwan

masterplan

總體規劃



AMENITY FOR SPORTS IS IMPORTANT, PLACES FOR KIDS / ADOLESCENTS TO GET TO GO THERE SHOULD BE ENCOURAGED. THERE IS GREAT OPPORTUNITY FOR THIS IN THE PARK BY MIXING THIS WITH THE OTHER ACTIVITIES. IT WILL BE CONTROLLED AND SAFE THROUGH CONSTANT OBSERVATION BY THE GENERAL PUBLIC.



A PERFORMANCE SPACE IS IMPORTANT FOR ANY COMMUNITY. IT BECOMES A FORUM FOR PUBLIC DISCUSSION AND ALSO ALLOWS FOR PERFORMANCES FROM BOTH THE GREATER AREA AND LOCAL COMMUNITIES.

THE PERMANENT DINING OPPORTUNITIES COULD PROBABLY BE IN THE FORM OF A FOOD COURT WHICH COULD SPILL INTO AND LINK WITH THE MARKET. THIS WOULD WORK WITH ALFRESCO DINING ALSO.

THE IMPORTANCE OF A MARKET IS CRUCIAL TO THE PLAZA DEVELOPMENT. PROVIDING FRESH FOOD OPPORTUNITIES FOR THE RESIDENTS, AND ALSO BUSINESS RETAIL OPPORTUNITIES.

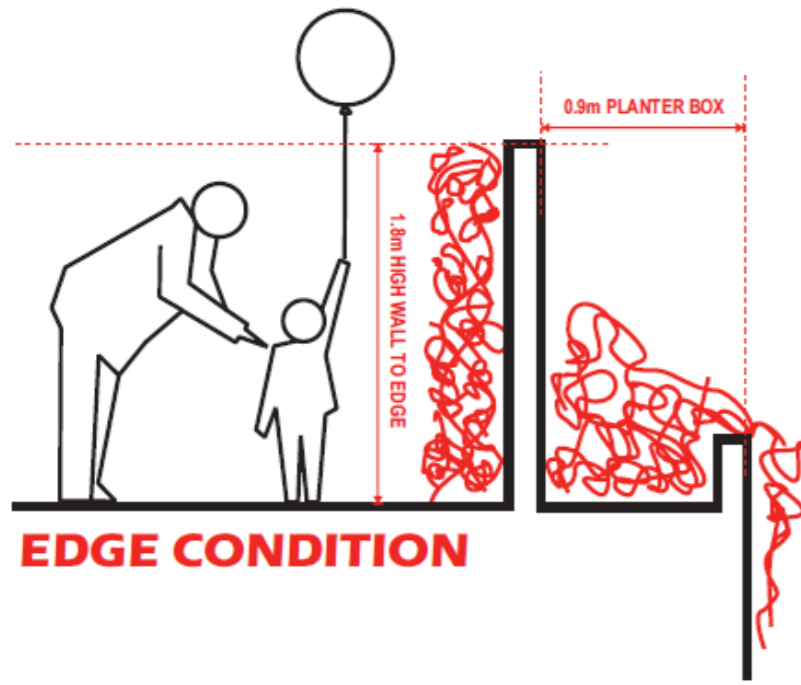
THE MARKET PROVIDES A BUFFER BETWEEN THE MAIN ROAD AND IT EXISTING COMMERCIAL OPPORTUNITIES AND THE PARK WITHIN. THE MARKET MAY CONSIST OF FRESH FOOD / GENERAL COMMERCIAL AND TAKEAWAY FOOD OPPORTUNITIES.

THE ENTRIES ARE NOT TO BE CONSIDERED AS MAIN ATTRACTION GRAND ENTRIES INTO THE RESIDENTIAL AREAS. INSTEAD WE ARE LOOKIN MORE TO THE QUALITY OF THE PAVILLION IN THE PARK IDEAL.



Semiahmoo Masterplan

BC, Canada



Cyclone Shelter

Bangladesh

CONTEXT

LOCATION

CLIMATE

KEY CONCEPT

Proposed design moves away from the normal concrete elevated house on stilts and looks at how we can use local materials such as the bamboo.

FLANK A + RAFT = FLANK B

The raft floating floor was then added as a 'Plan B' because the existing structure was too weak. The raft is made up of recycled steel drums as the bamboo does with bamboo flooring used.

NORMAL MODE → **CYCLONE MODE**

The building interacts with the surrounding on a day to day basis allowing natural light and ventilation. But during an emergency it shut down to provide shelter and protection.

BAMBOO + **RECYCLED DRUMS**

The building uses local and recycled material locally making it sustainable and belonging to the place.

INTERNATIONAL DESIGN COMPETITION CYCLONE SHELTER BANGLADESH

2

LOCAL MATERIAL

Bamboo grows over 1000 species in Asia. There are various species of bamboos that grow naturally and are cultivated throughout Bangladesh. As per the statistics, there are 250,000 ha of bamboo in Bangladesh, 10000 ha.

LOW EMBODIED ENERGY

Bamboo grows with atmospheric nitrogen and without the need for fertilizers or pesticides. Harvesting does not require any sophisticated tools. Bamboo is lightweight and easily accessible making the process of energy work in transportation.

SKILL DEVELOPMENT

The subject emergency shelter design will be conducted by the locals, under the guidance of bamboo experts. The local people will be trained in a workshop environment to build a resilient bamboo building, which will enhance their coping skills with bamboo.

EMPOWERMENT

The local people will gain new knowledge and skills in the process of building a modern bamboo building. These local people can use their own knowledge and skills to build other people and use it to maintain the structure. The newly developed skill would bring a sense of ownership and empower people to start their own local enterprise.

RENEWABLE RESOURCE

Bamboo is a highly renewable resource. It is one of the fastest growing plant on earth. Bamboo can be continuously harvested after 150 to 200 years without the need for replanting. This produces a young bamboo and provides a continuous supply of the material.

STRUCTURALLY STRONG

Bamboo is one of the strongest natural materials with a tensile strength superior to steel, and comparable strength to other plant materials. It is one of the most versatile and durable natural resources on earth.

STRUCTURAL USES OF BAMBOO IN BANGLADESH:

- Bamboo bridge
- Bamboo house
- Bamboo furniture
- Bamboo handicrafts

INTERNATIONAL DESIGN COMPETITION CYCLONE SHELTER BANGLADESH

4

LANDSCAPING FOR WIND PROTECTION

Landscaping around the shelter can provide protection from the high velocity winds. Bamboo can be used as an effective wind break.

SECURED ROOFING SHEET

Roofing sheet will be secured with the bamboo rafters using a double girdling, a side by side connection without relying on the nails and bolts.

ROOF PITCH > 30°

A pitched roof with an angle of 30° is used to maximize tilting of the roof during strong cyclone winds.

WIDE BRACE

Bamboo truss is designed with a brace that will brace the main members and the ridge beam to provide maximum protection against strong cyclone winds.

HIP ROOF

A hip roof is used to provide better protection for the roof from tilting during cyclone winds.

RECTANGULAR PLAN

Simple square plan is best in cyclone areas. If the building is rectangular the length should not be more than 3 times the width.

RAISED STRUCTURE

Structure is raised on stilts with a lightweight concrete floor in case of heavy flooding events.

RAFT FLOATING FLOOR

Recycled drums used for the floor to make a floating floor that will automatically start floating when the water level reaches the 1st floor level.

CURVED BENTING EDGE

Curve edge similar to the shape of a leaf hull is used to minimize the impact of the first wave on the first floor of the structure.

SMALL OVERHANGS & COLLAPSIBLE AWNINGS

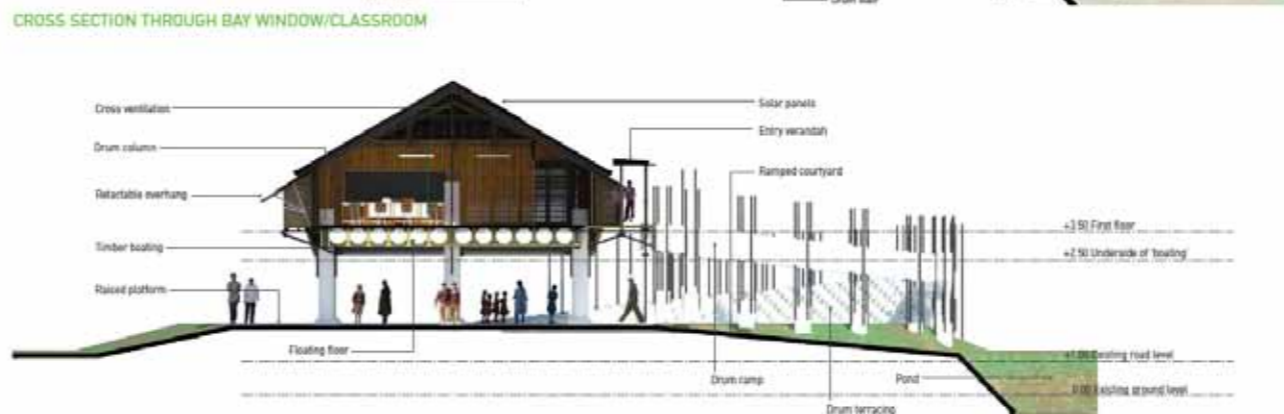
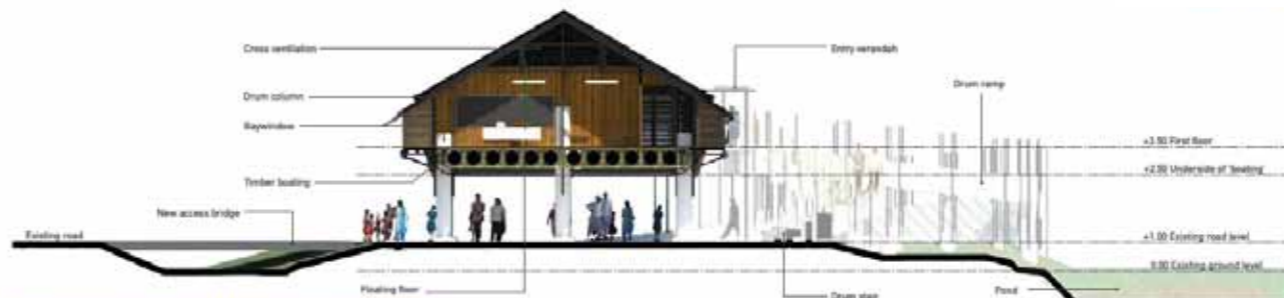
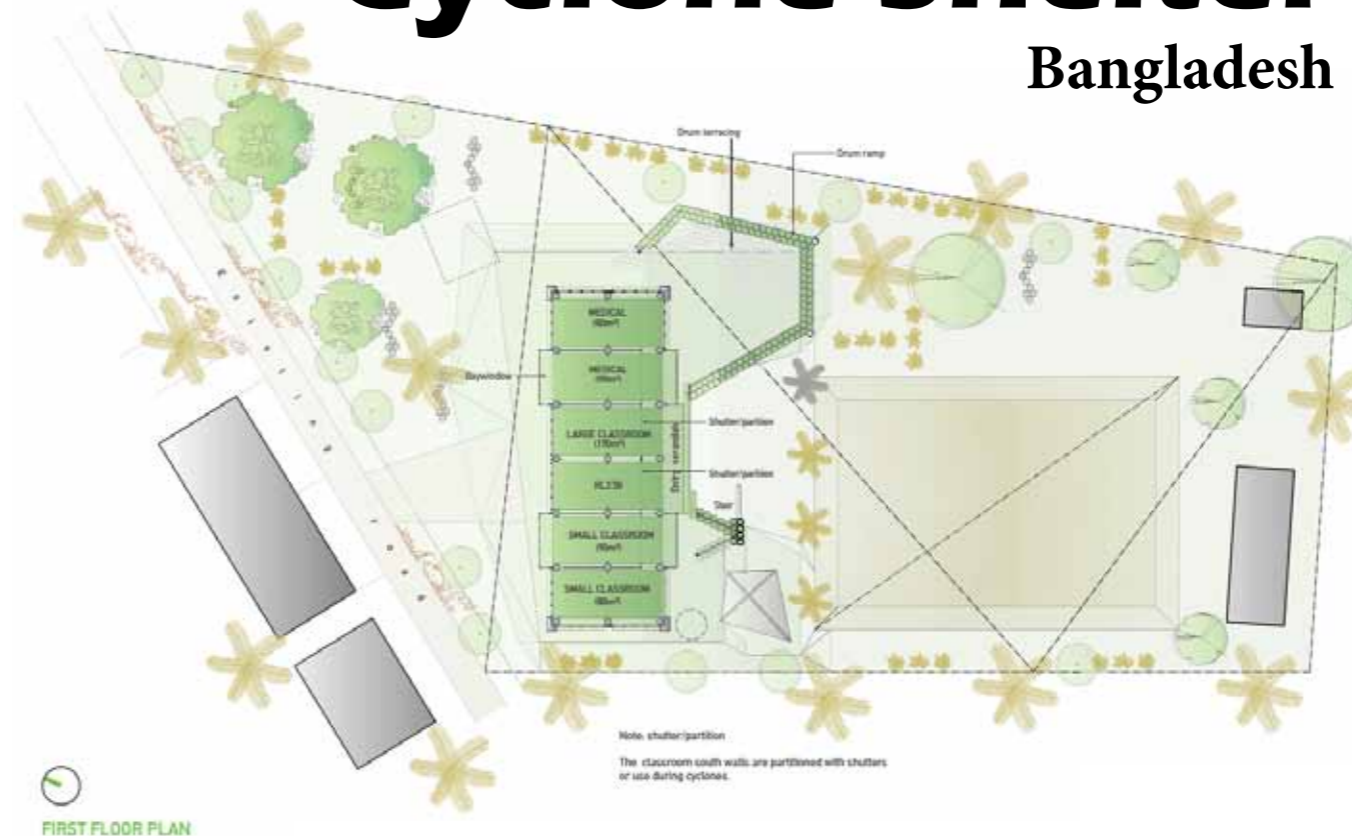
Small overhangs are used to minimize the chances of the roof catching wind and blowing. Collapsible awnings that can be closed during cyclone winds are used to provide weather protection and also to protect bamboo from natural elements.

RAISED PLATFORM

Structure is raised on stilts with a lightweight concrete floor in case of heavy flooding events.

INTERNATIONAL DESIGN COMPETITION CYCLONE SHELTER BANGLADESH

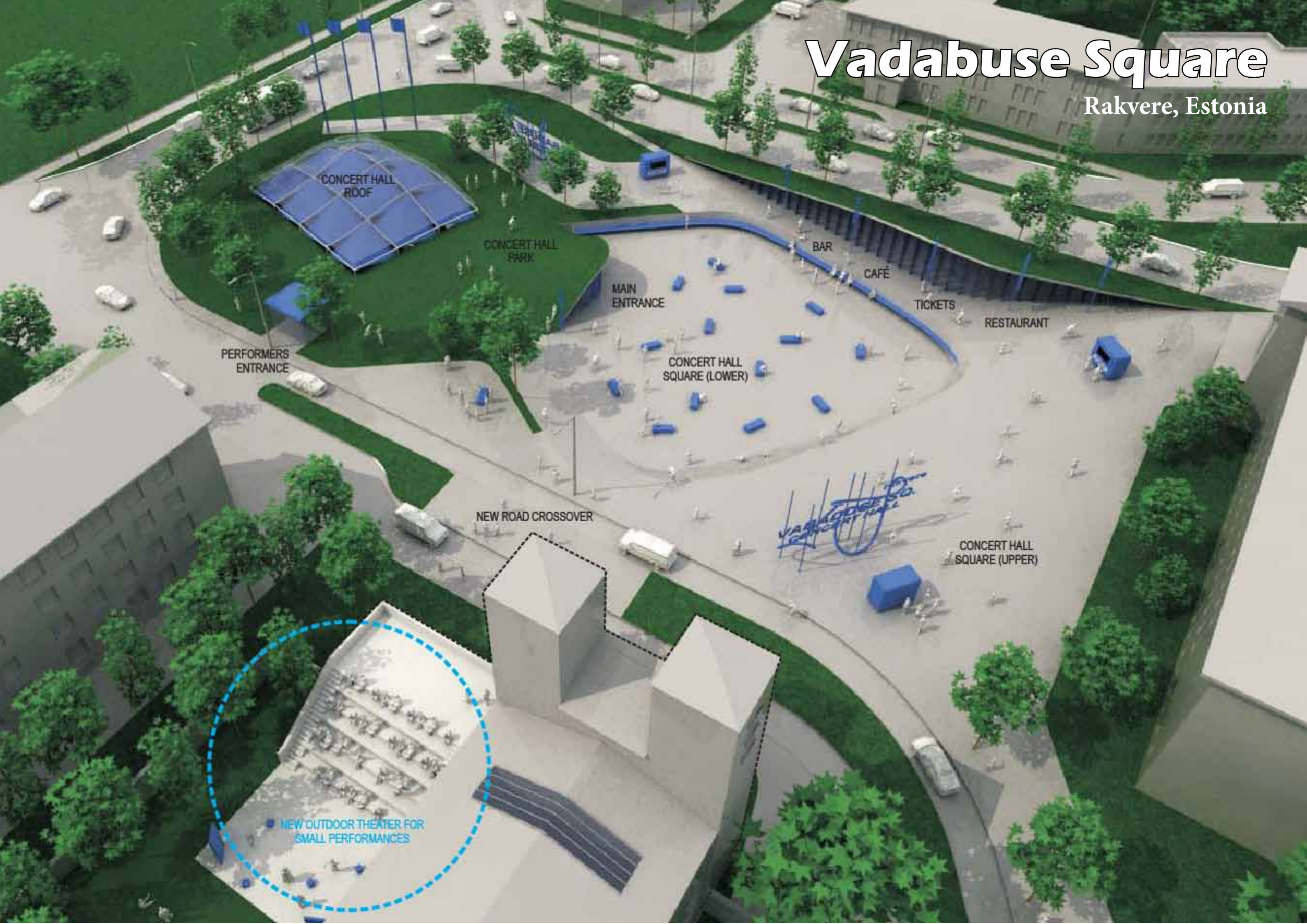
3





Vadabuse Square

Rakvere, Estonia



CONCERT HALL ROOF

CONCERT HALL PARK

MAIN ENTRANCE

BAR

CAFÉ

TICKETS

RESTAURANT

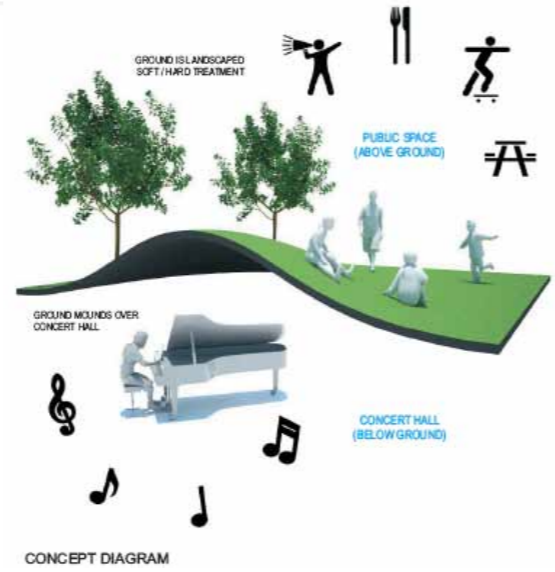
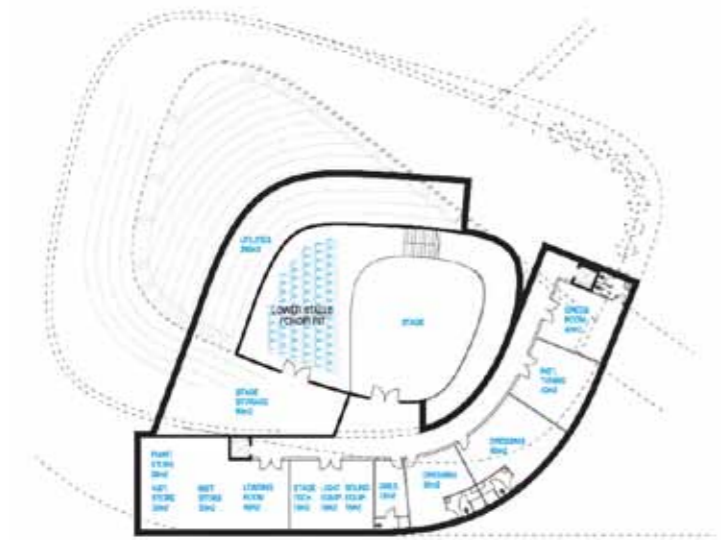
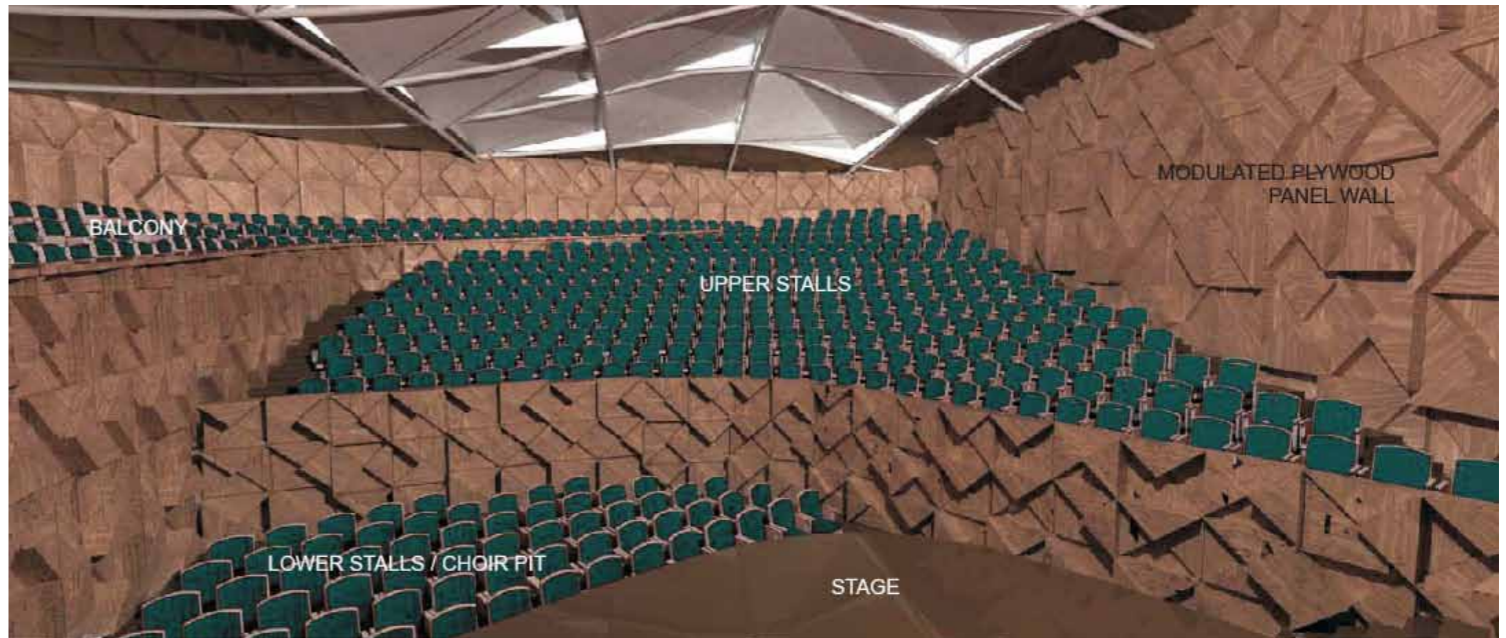
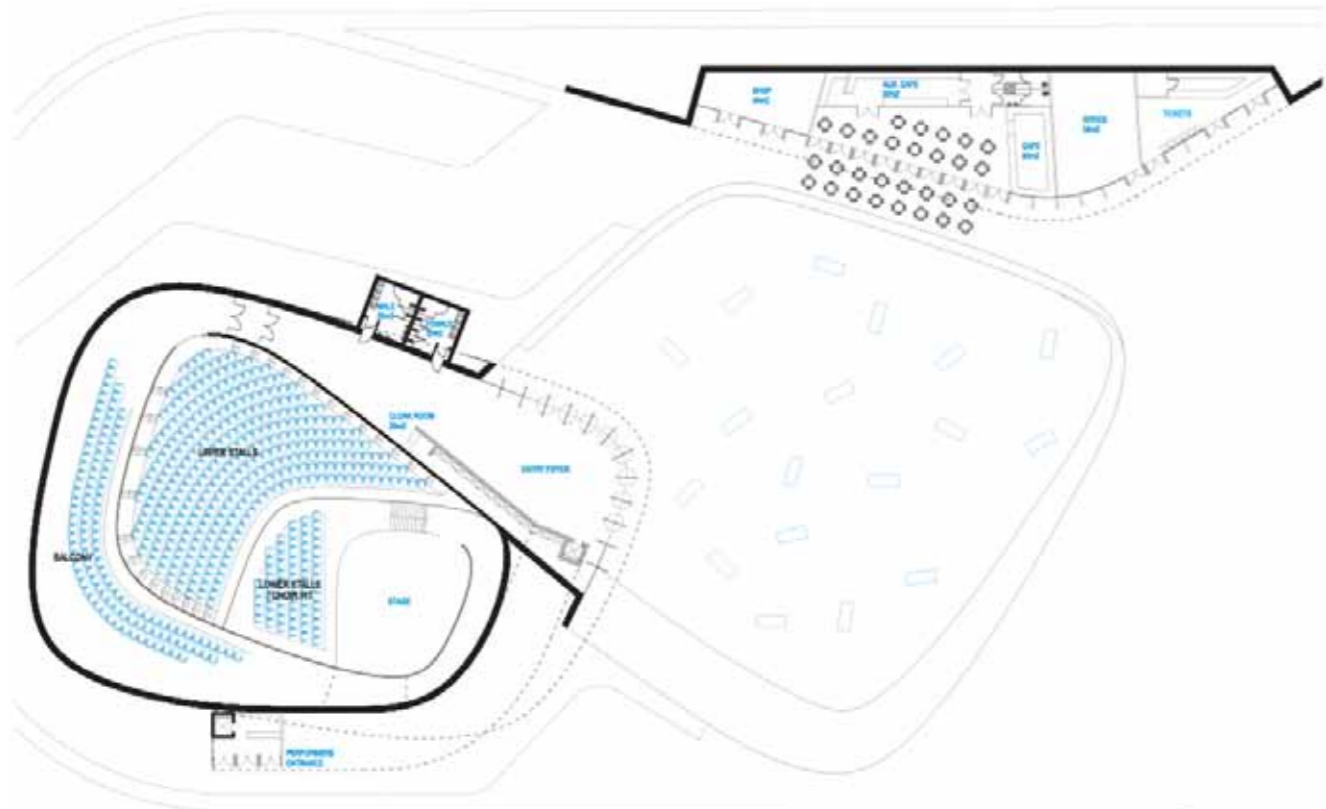
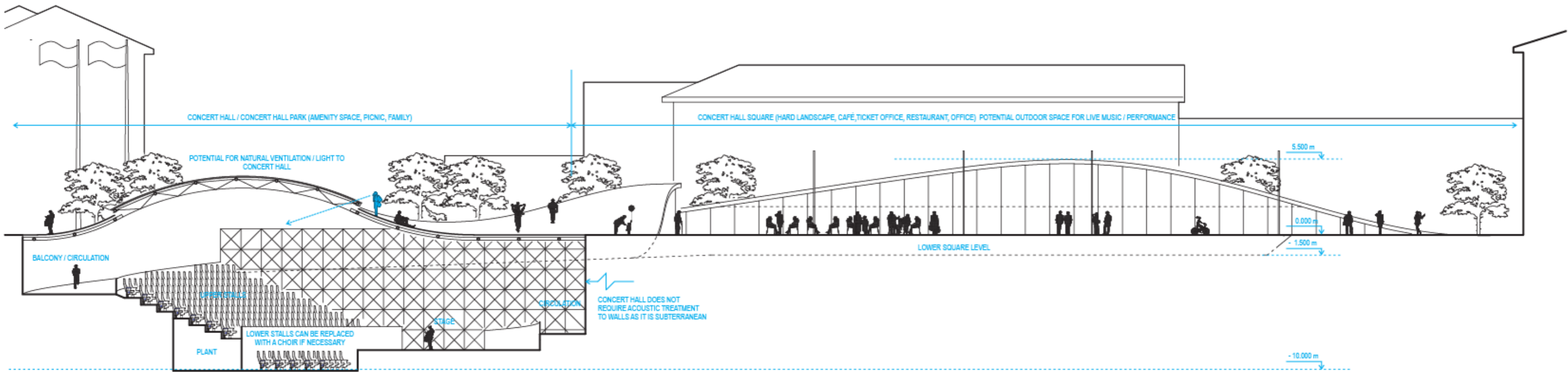
PERFORMERS ENTRANCE

CONCERT HALL SQUARE (LOWER)

NEW ROAD CROSSOVER

CONCERT HALL SQUARE (UPPER)

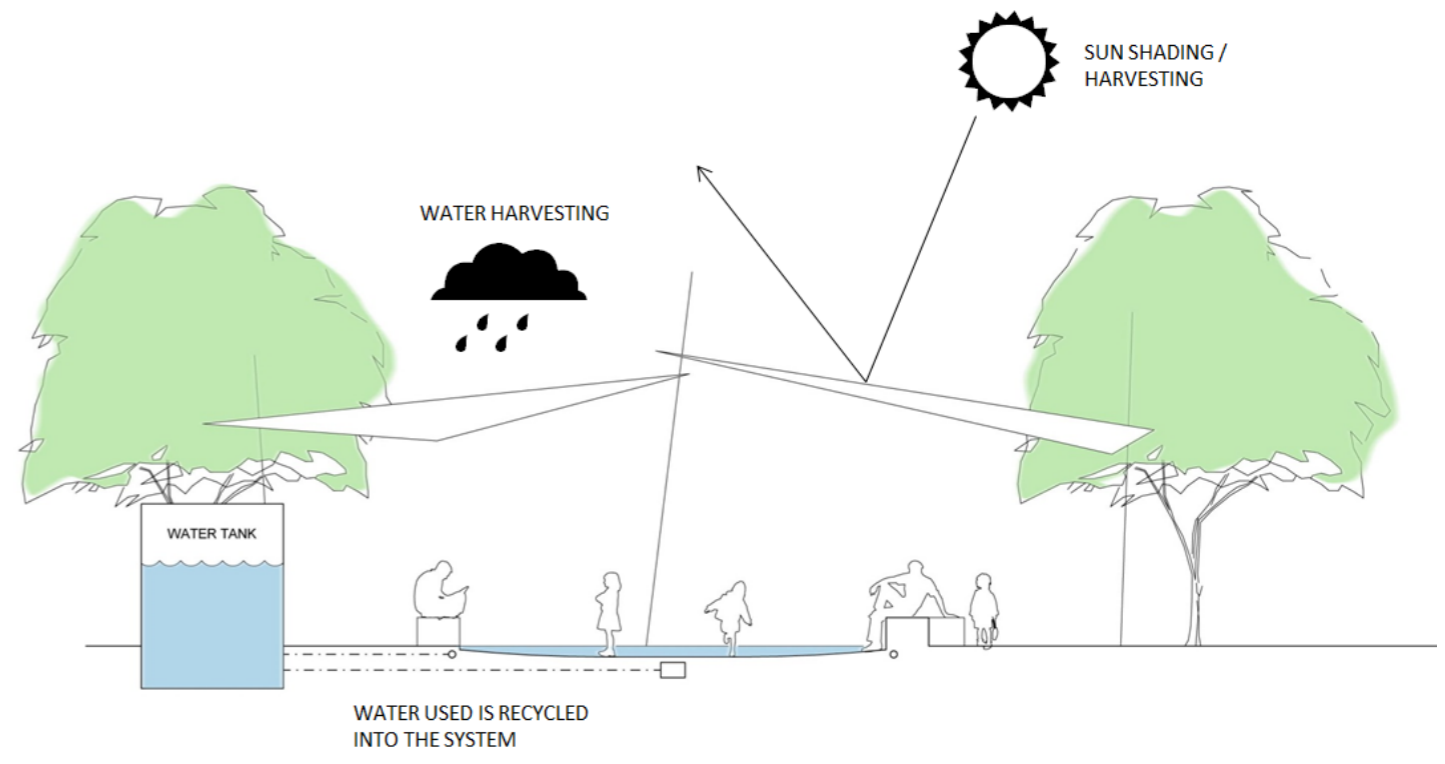
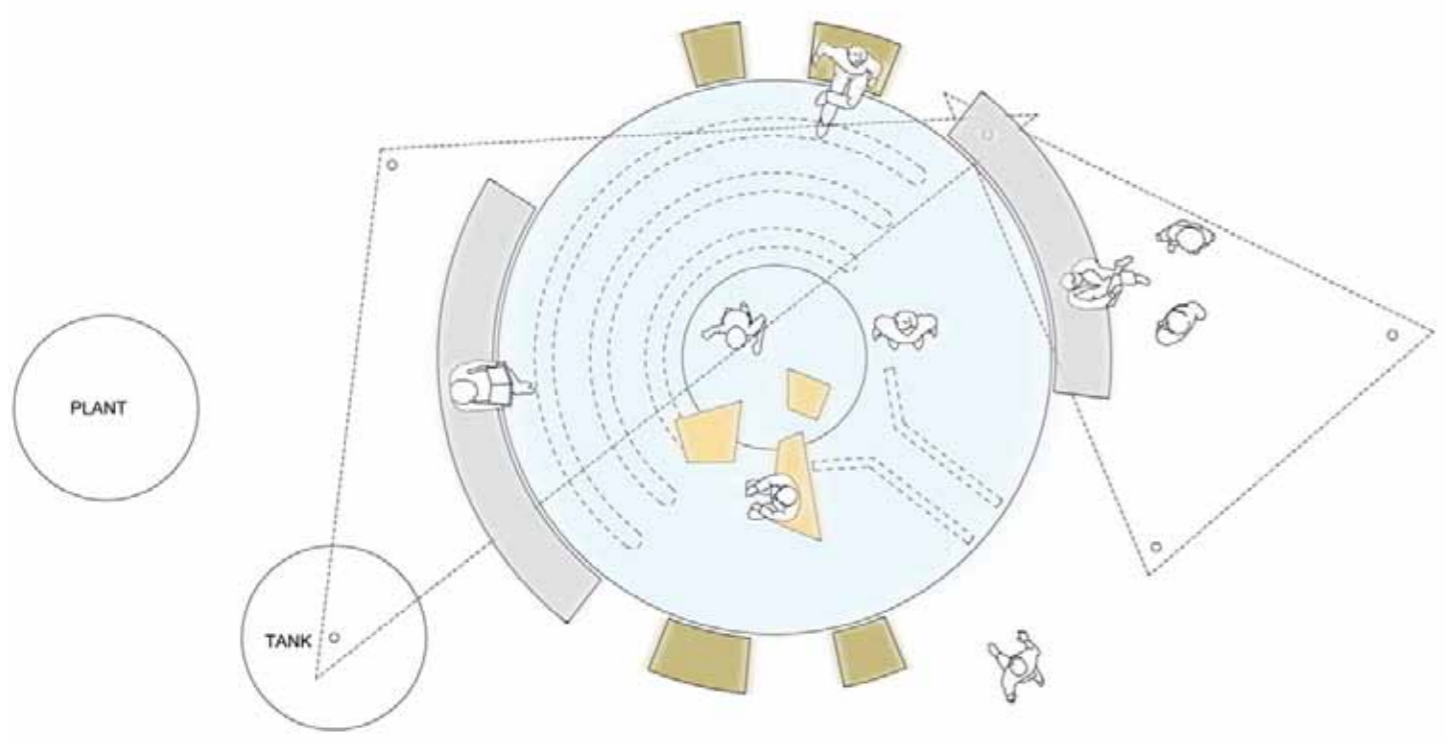
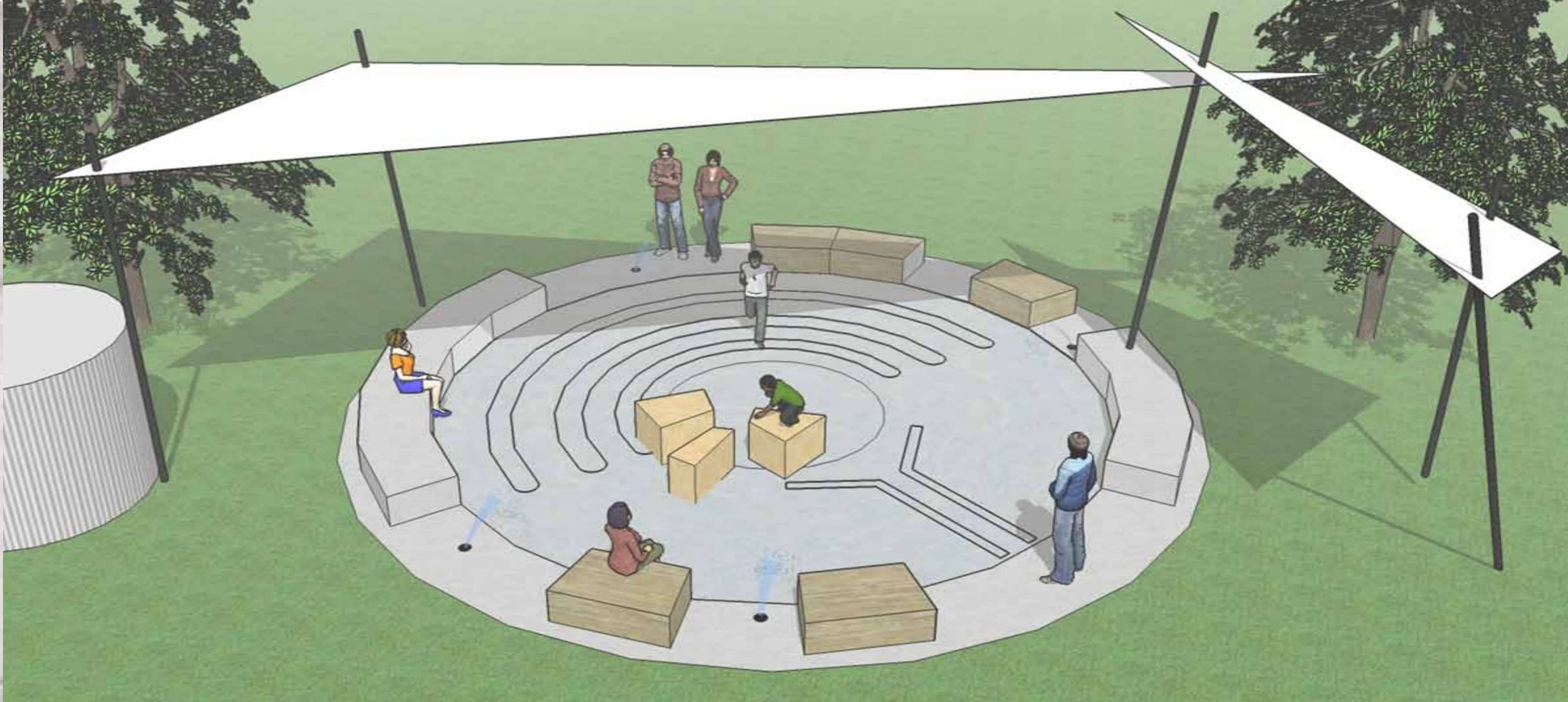
NEW OUTDOOR THEATER FOR SMALL PERFORMANCES



Ballarat Aqua Park

Ballarat, VIC, Australia





Banule Childrens Hub

Banule, VIC, Australia



Venus Bay House

Venus Bay, VIC, Australia



APPROX TRUE NORTH

shed

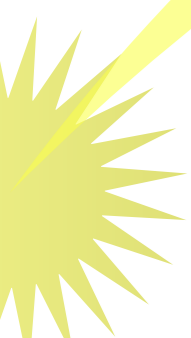
G.I. SHED
PEG FOUND UNDER POST

thick ti-tree

THICK TI-TREE
(±5mH)

thick ti-tree

THICK TI-TREE
(±5mH)



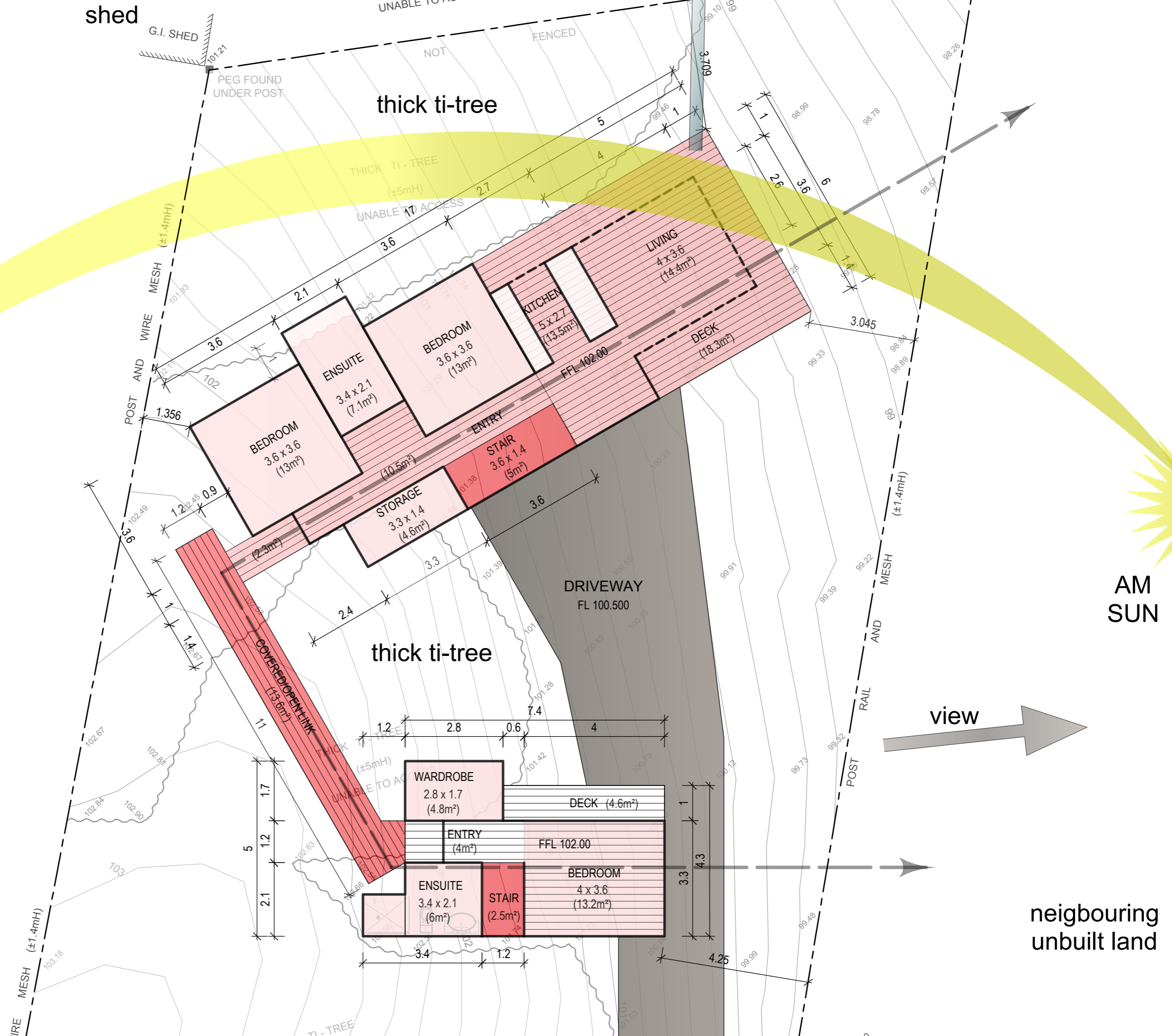
PM SUN



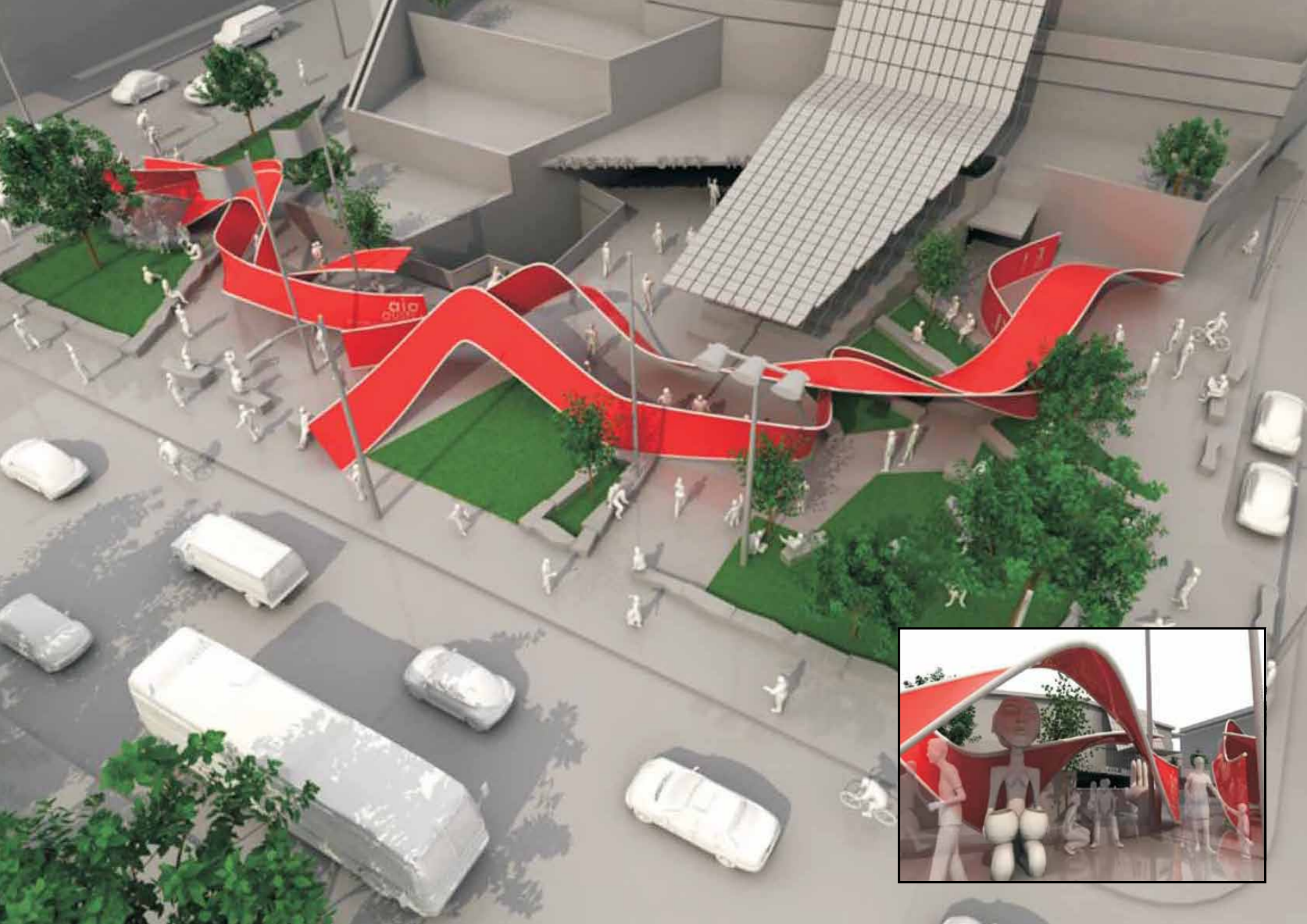
AM SUN

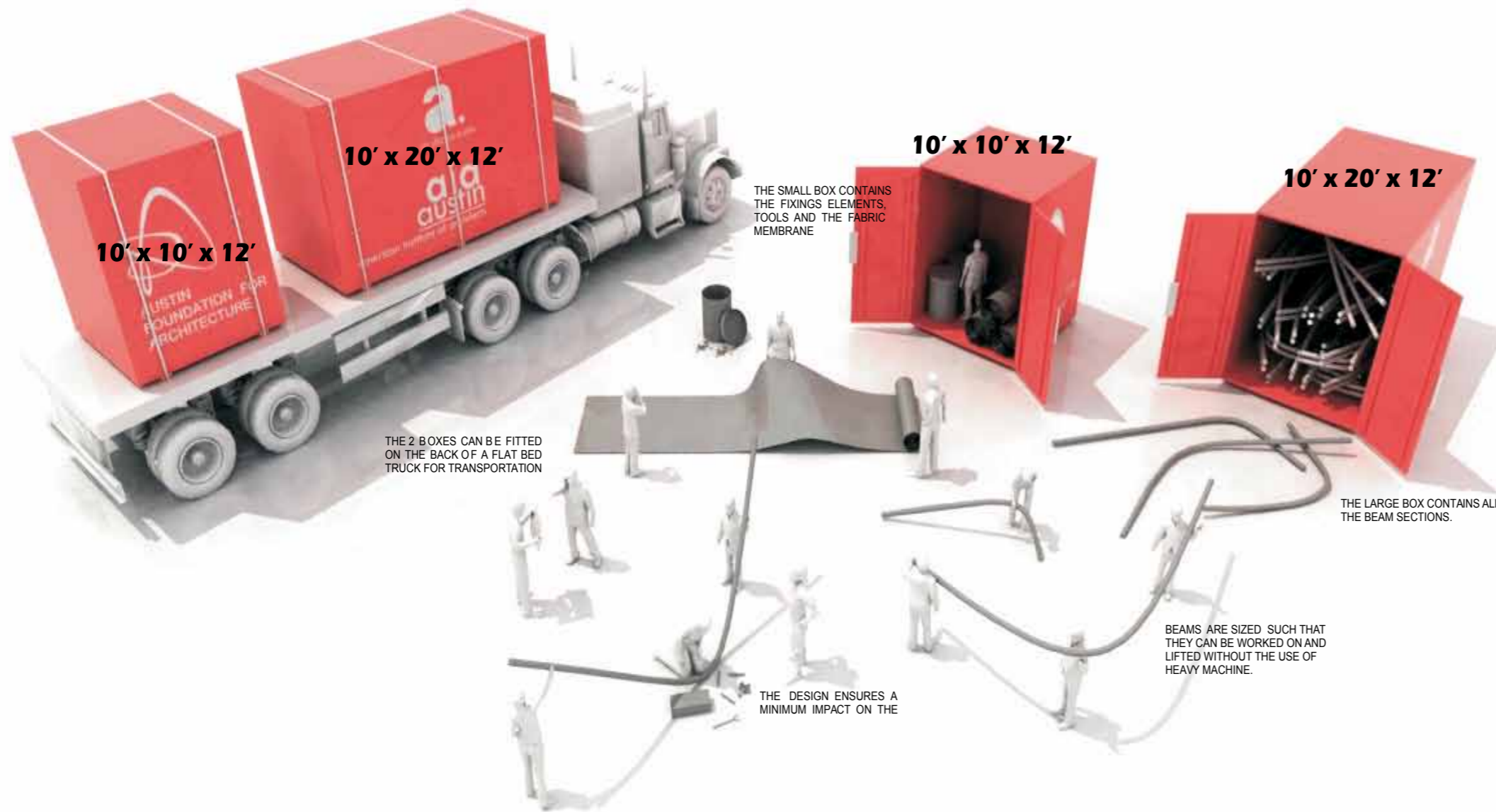
neighbouring single storey

neighbouring unbuilt land



view





10' x 10' x 12'

10' x 20' x 12'

10' x 10' x 12'

10' x 20' x 12'

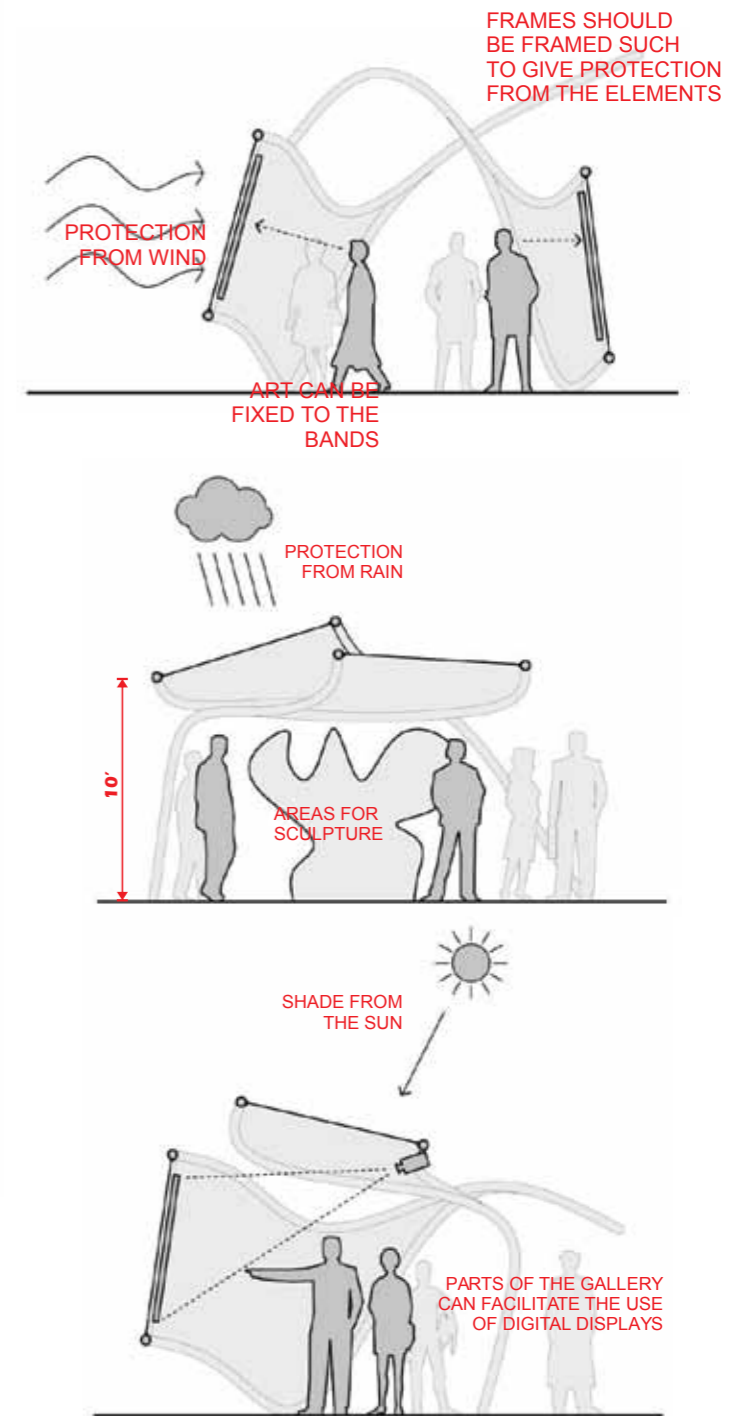
THE 2 BOXES CAN BE FITTED ON THE BACK OF A FLAT BED TRUCK FOR TRANSPORTATION

THE SMALL BOX CONTAINS THE FIXINGS ELEMENTS, TOOLS AND THE FABRIC MEMBRANE

THE LARGE BOX CONTAINS ALL THE BEAM SECTIONS.

BEAMS ARE SIZED SUCH THAT THEY CAN BE WORKED ON AND LIFTED WITHOUT THE USE OF HEAVY MACHINE.

THE DESIGN ENSURES A MINIMUM IMPACT ON THE



FRAMES SHOULD BE FRAMED SUCH TO GIVE PROTECTION FROM THE ELEMENTS

PROTECTION FROM WIND

ART CAN BE FIXED TO THE BANDS

PROTECTION FROM RAIN

10'

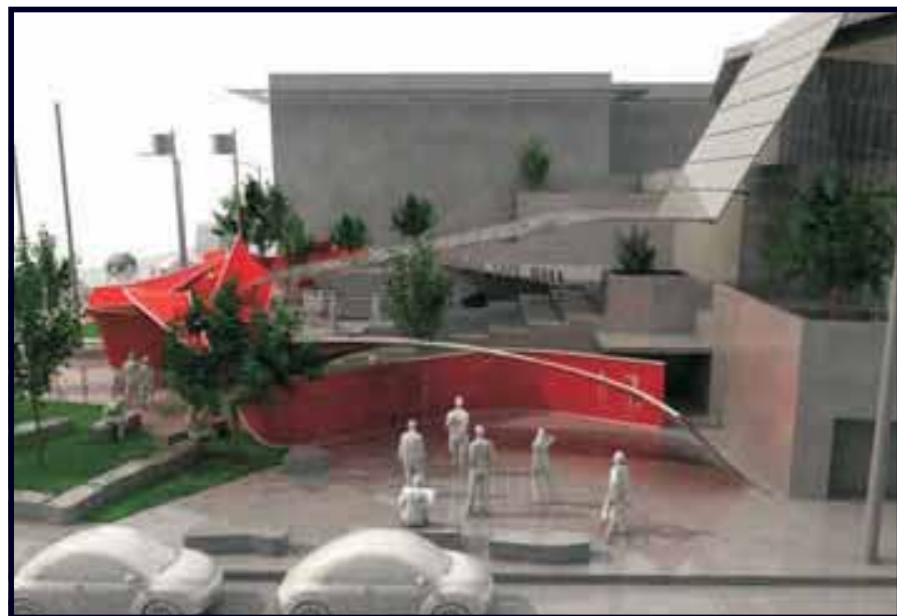
AREAS FOR SCULPTURE

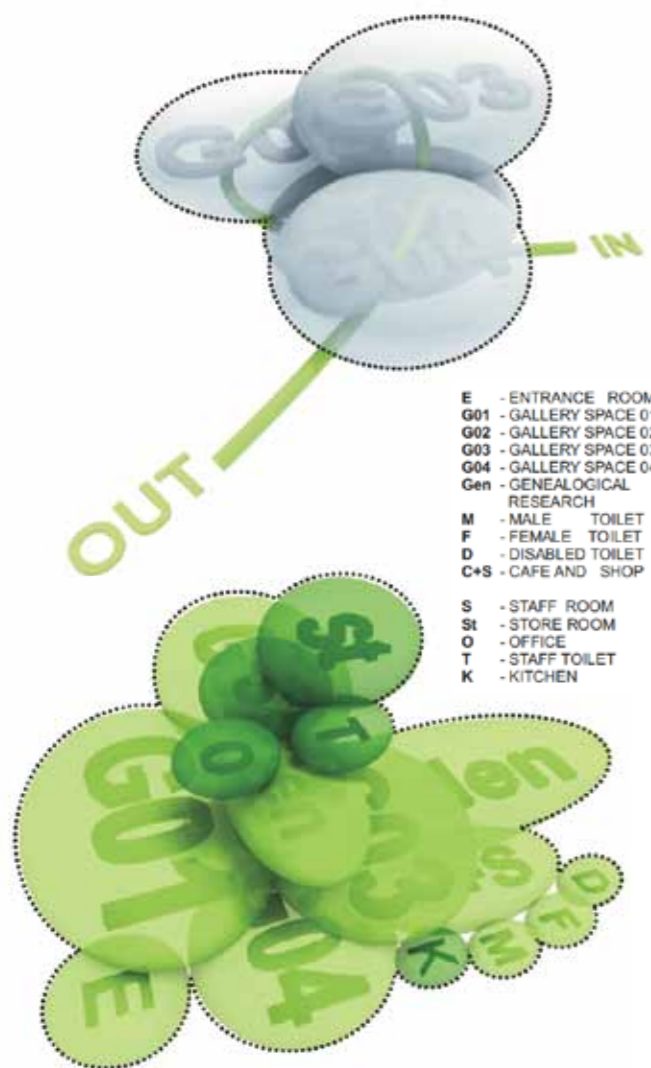
SHADE FROM THE SUN

PARTS OF THE GALLERY CAN FACILITATE THE USE OF DIGITAL DISPLAYS

TOGS 2 - Outdoor Exhibition

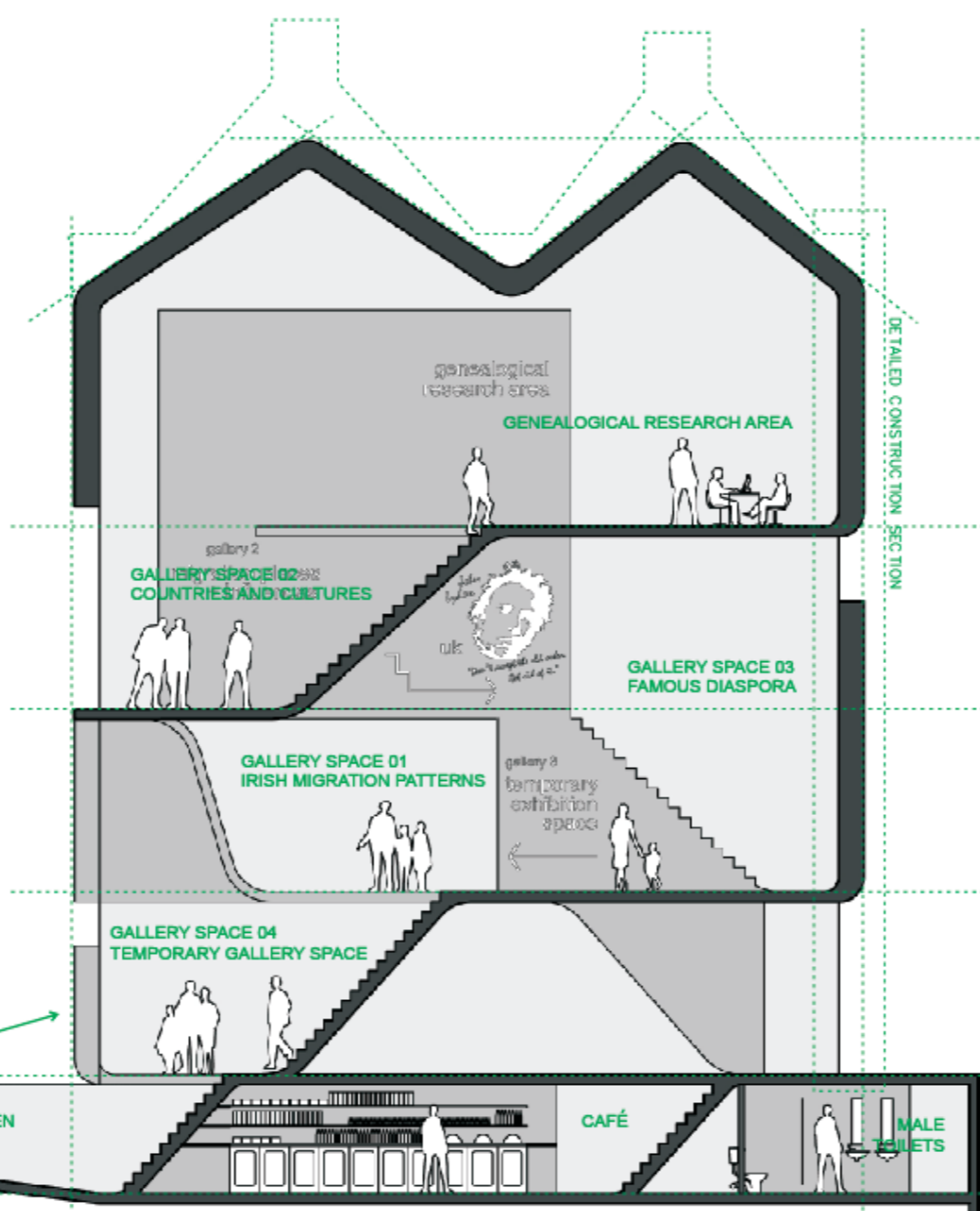
Texas, USA





- E - ENTRANCE ROOM
- G01 - GALLERY SPACE 01
- G02 - GALLERY SPACE 02
- G03 - GALLERY SPACE 03
- G04 - GALLERY SPACE 04
- Gen - GENEALOGICAL RESEARCH
- M - MALE TOILET
- F - FEMALE TOILET
- D - DISABLED TOILET
- C+S - CAFE AND SHOP

- S - STAFF ROOM
- St - STORE ROOM
- O - OFFICE
- T - STAFF TOILET
- K - KITCHEN



119.200m

111.435m

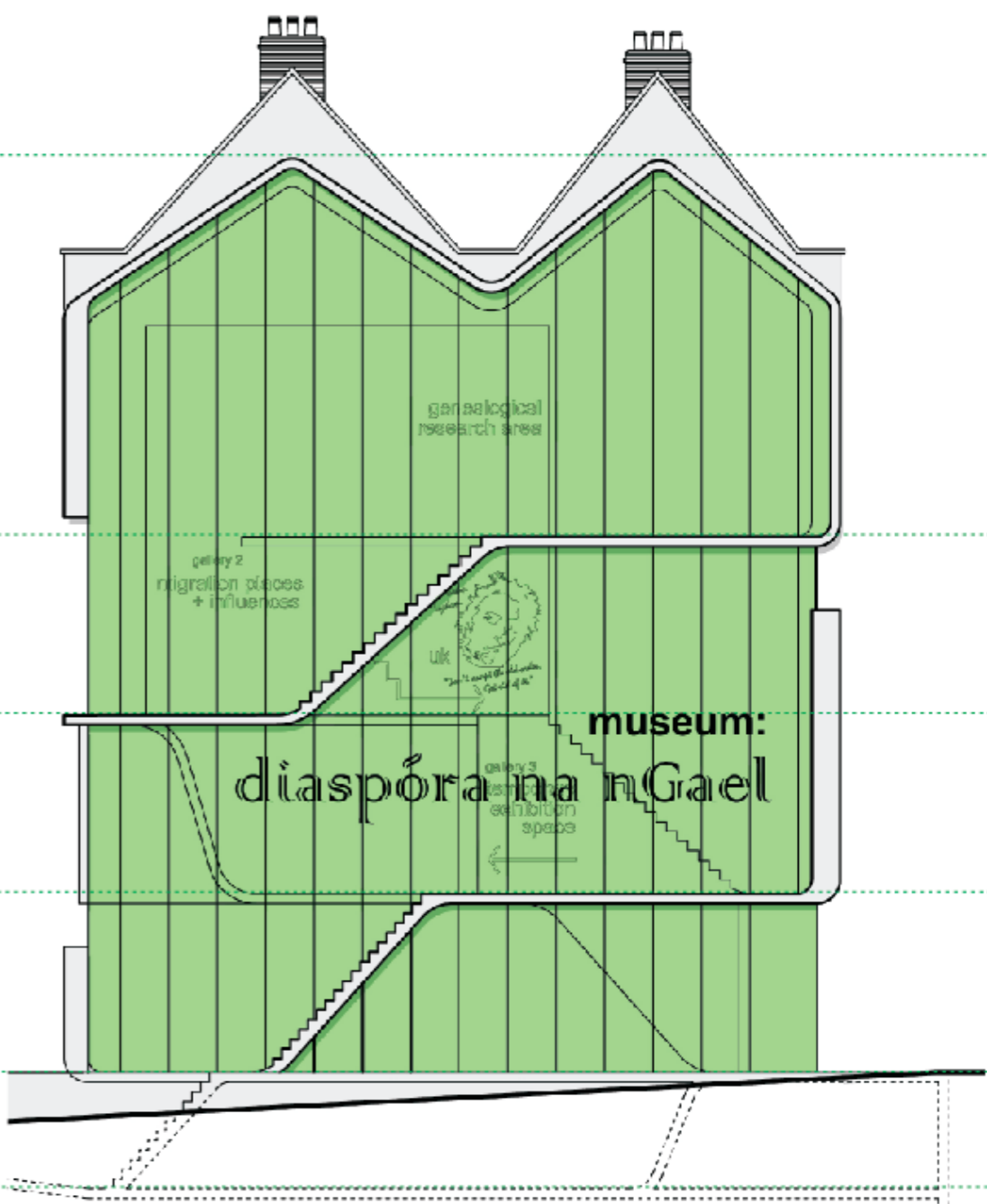
107.745m

104.040m

100.380m

97.980m

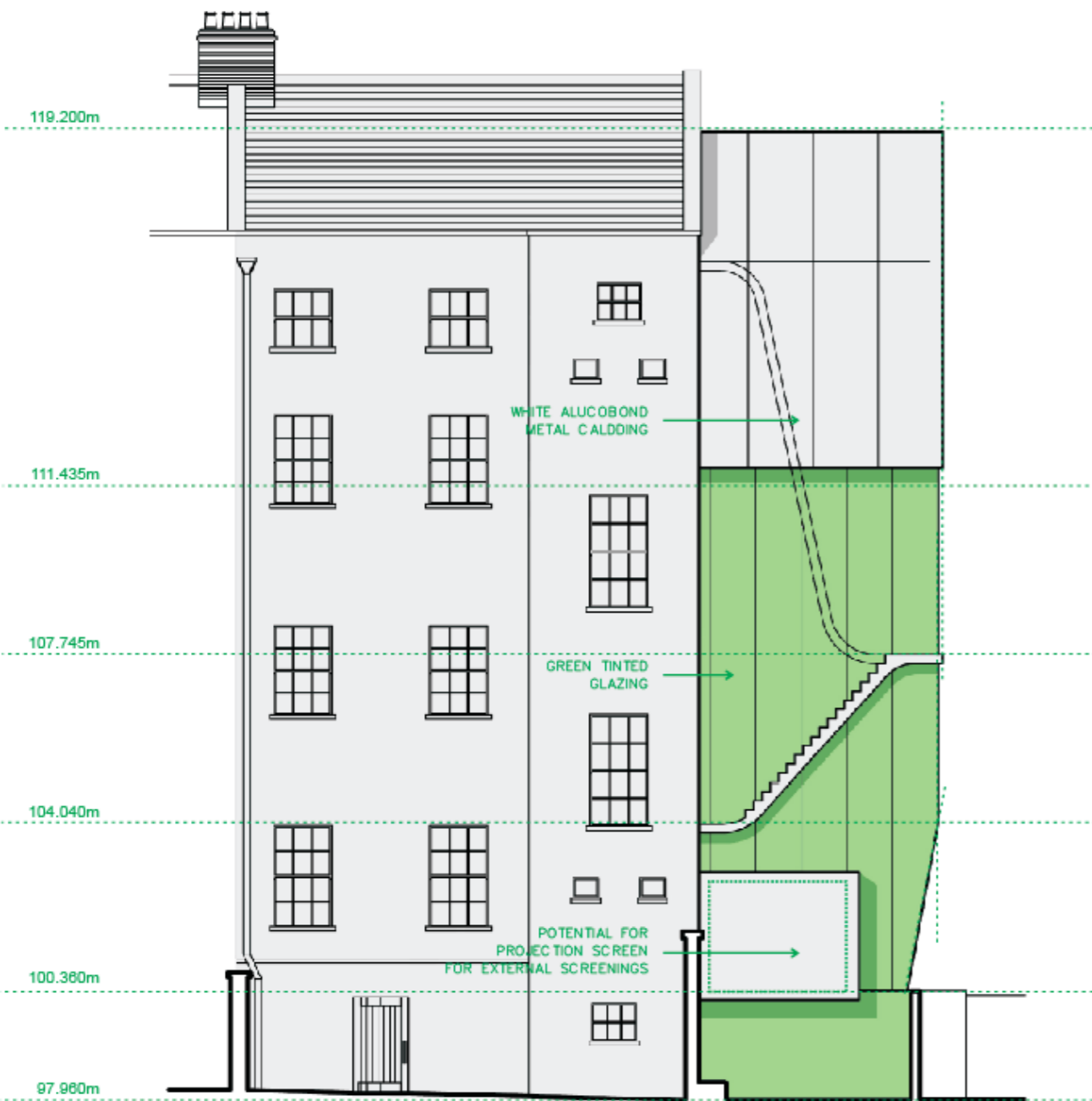
DETAILED CONSTRUCTION SECTION



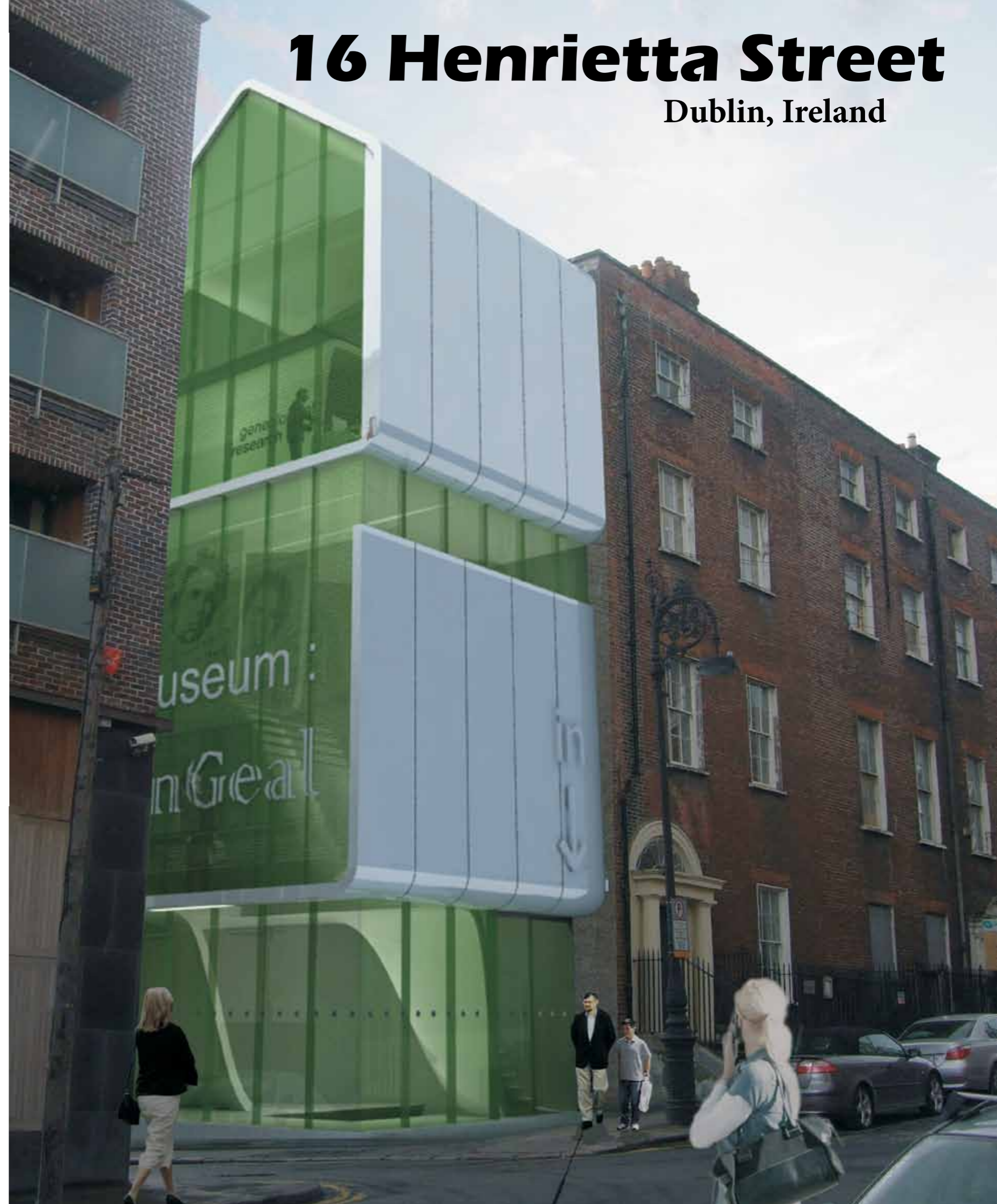
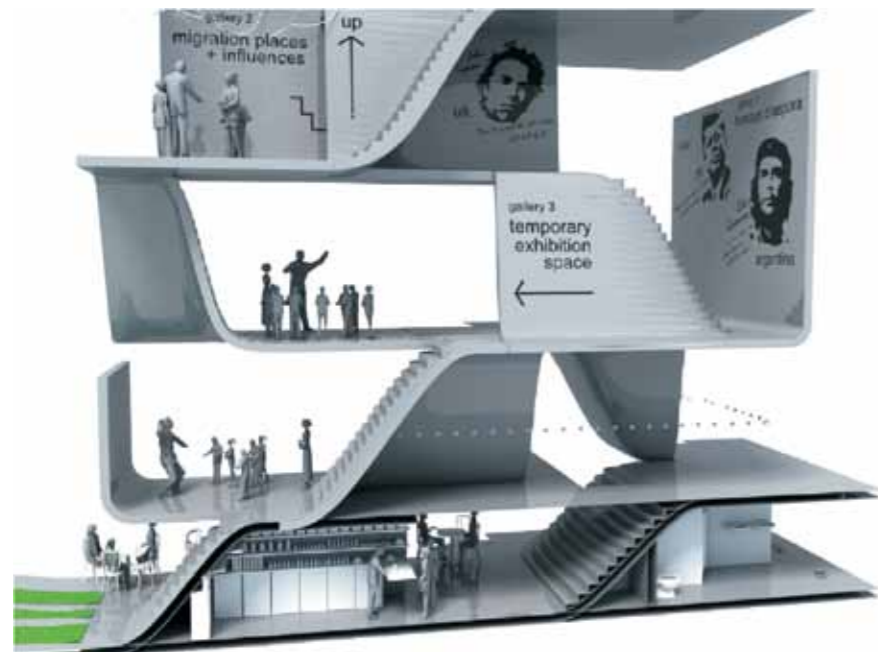
STREET ELEVATION

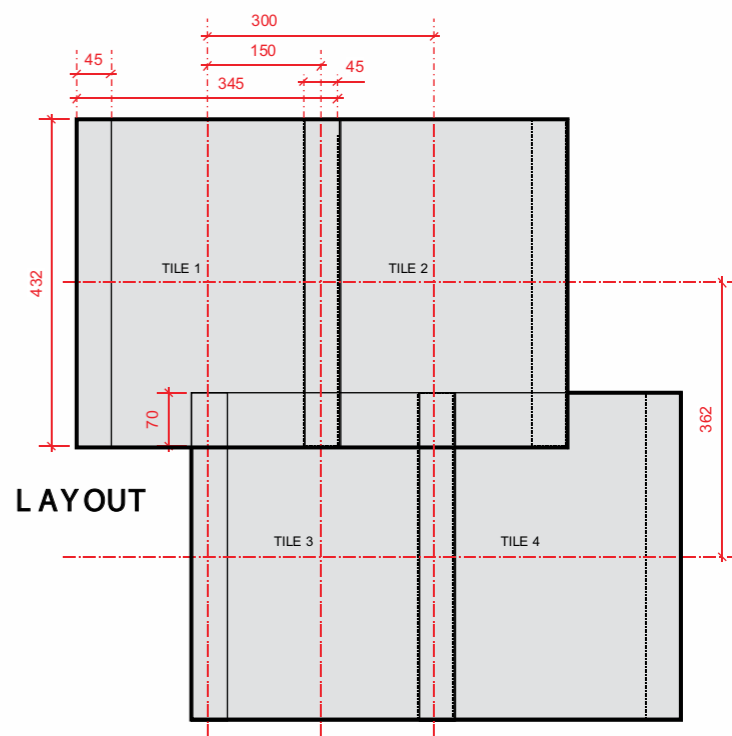
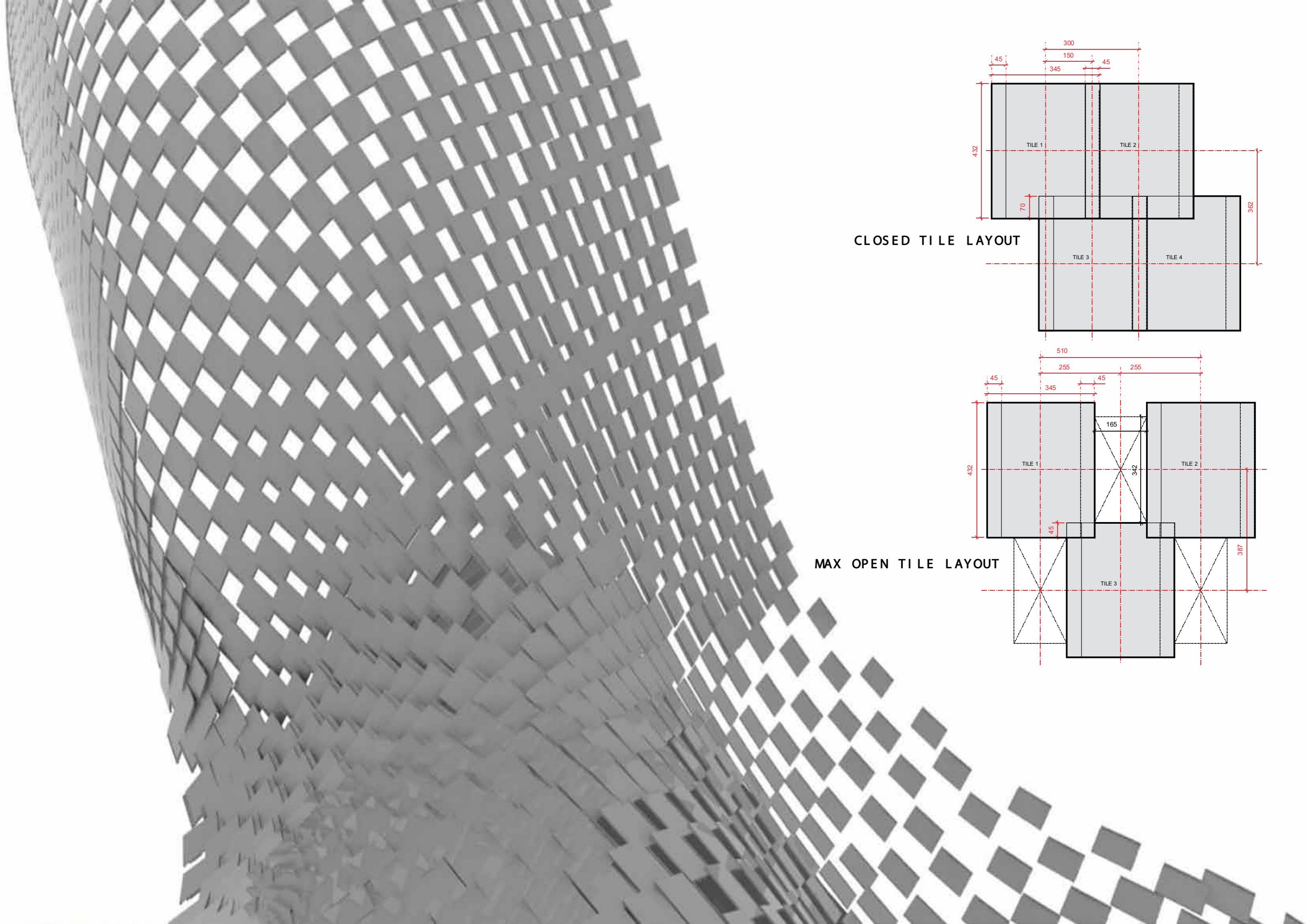
16 Henrietta Street

Dublin, Ireland

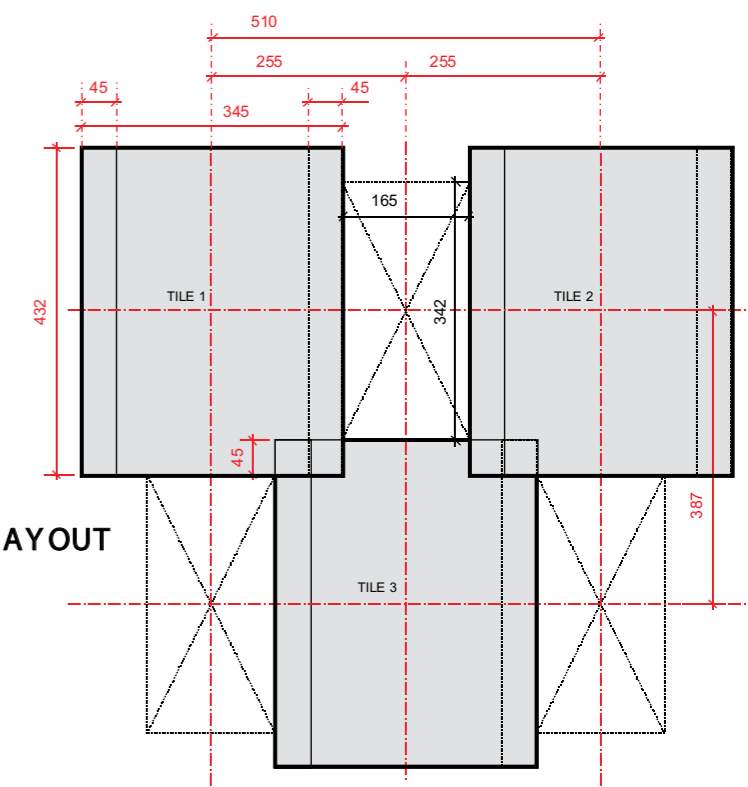


REAR ELEVATION [1:100]





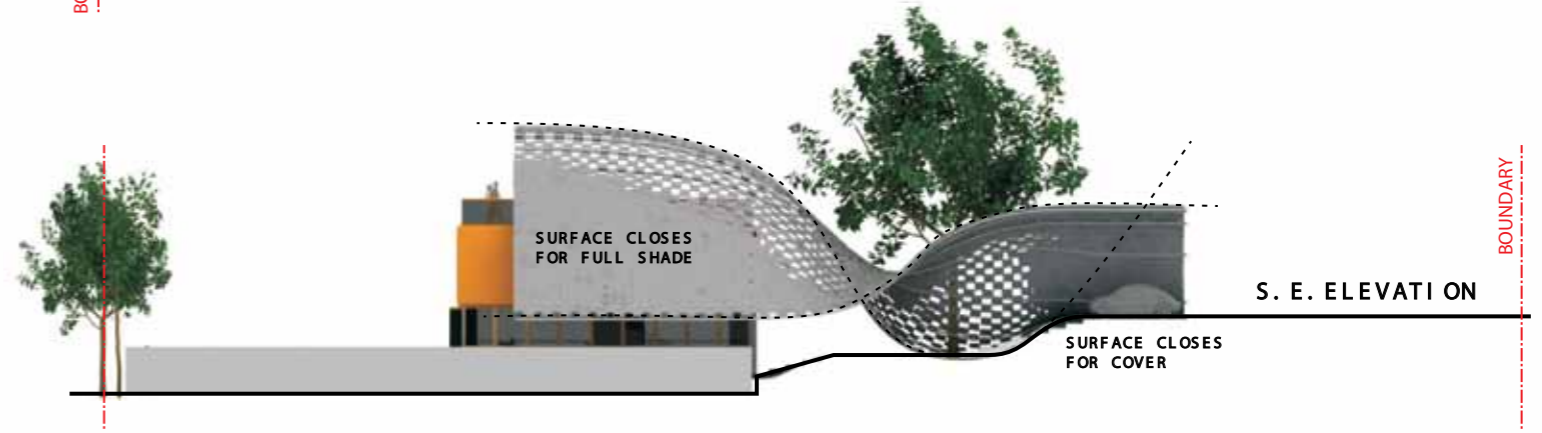
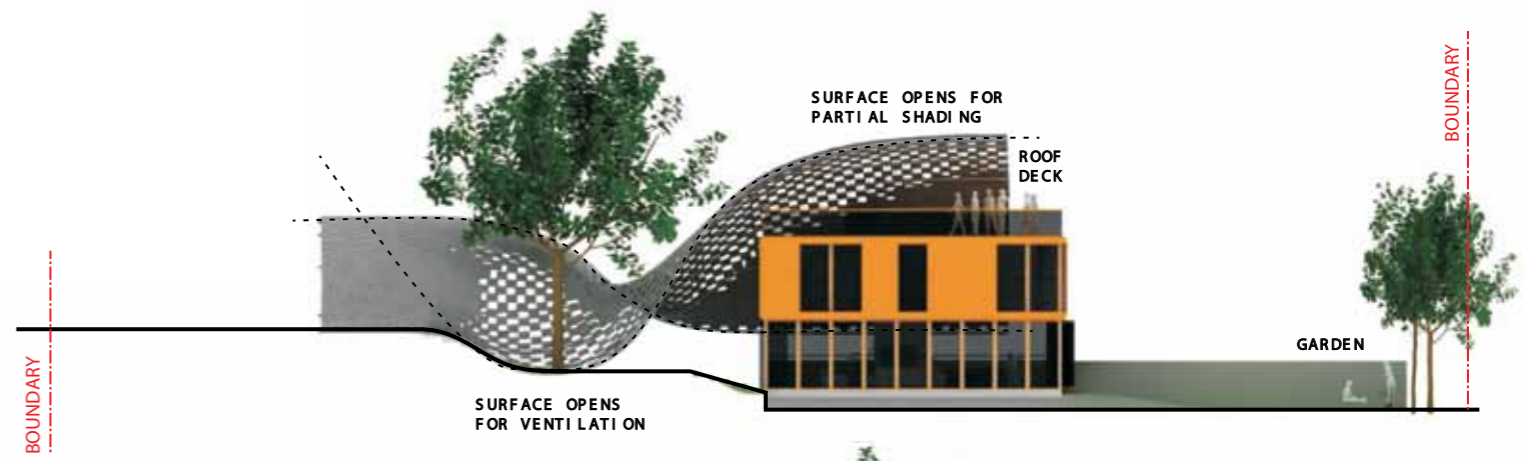
CLOSED TILE LAYOUT



MAX OPEN TILE LAYOUT

Uno House

Victoria, Melbourne



if



=



then



=



=

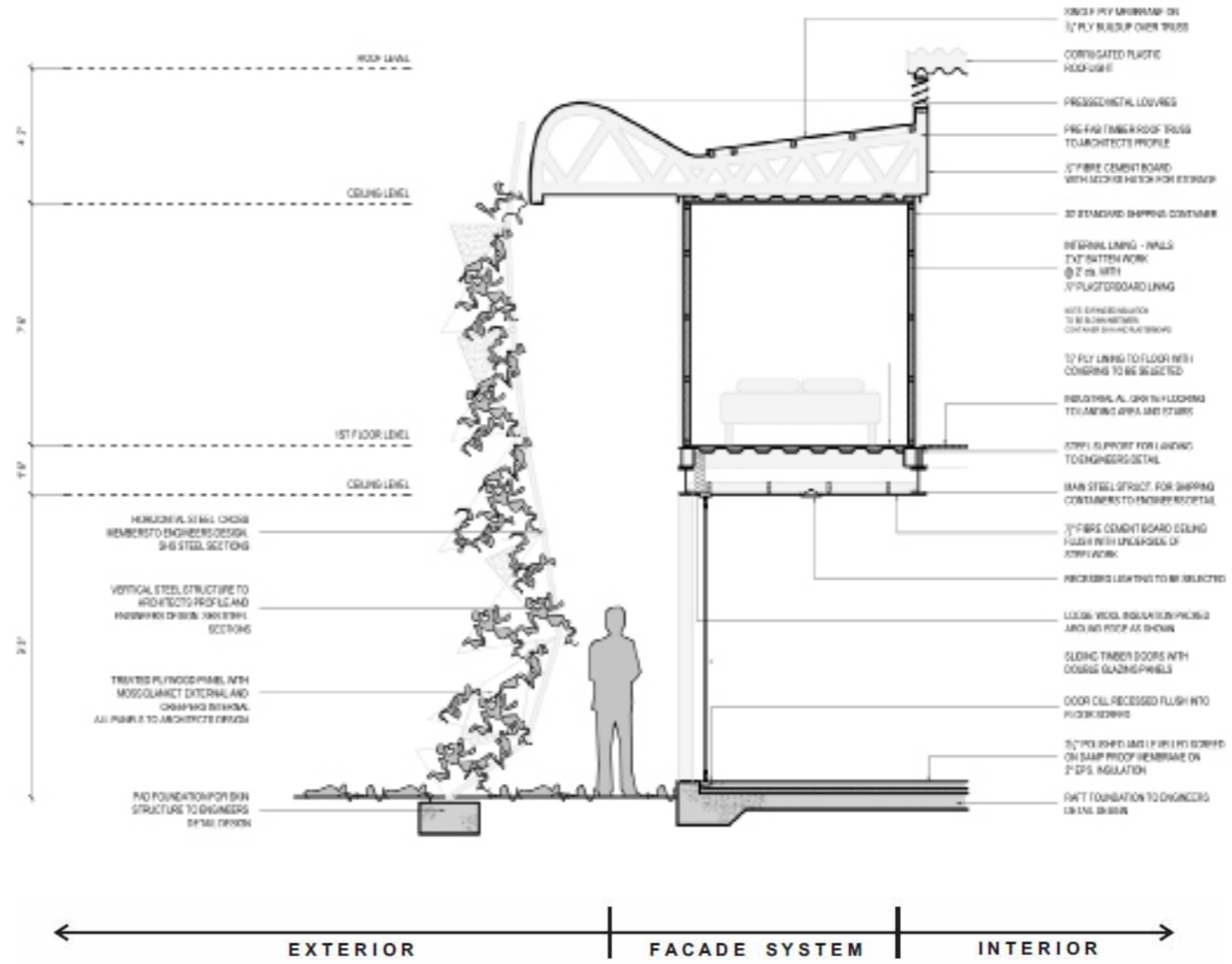
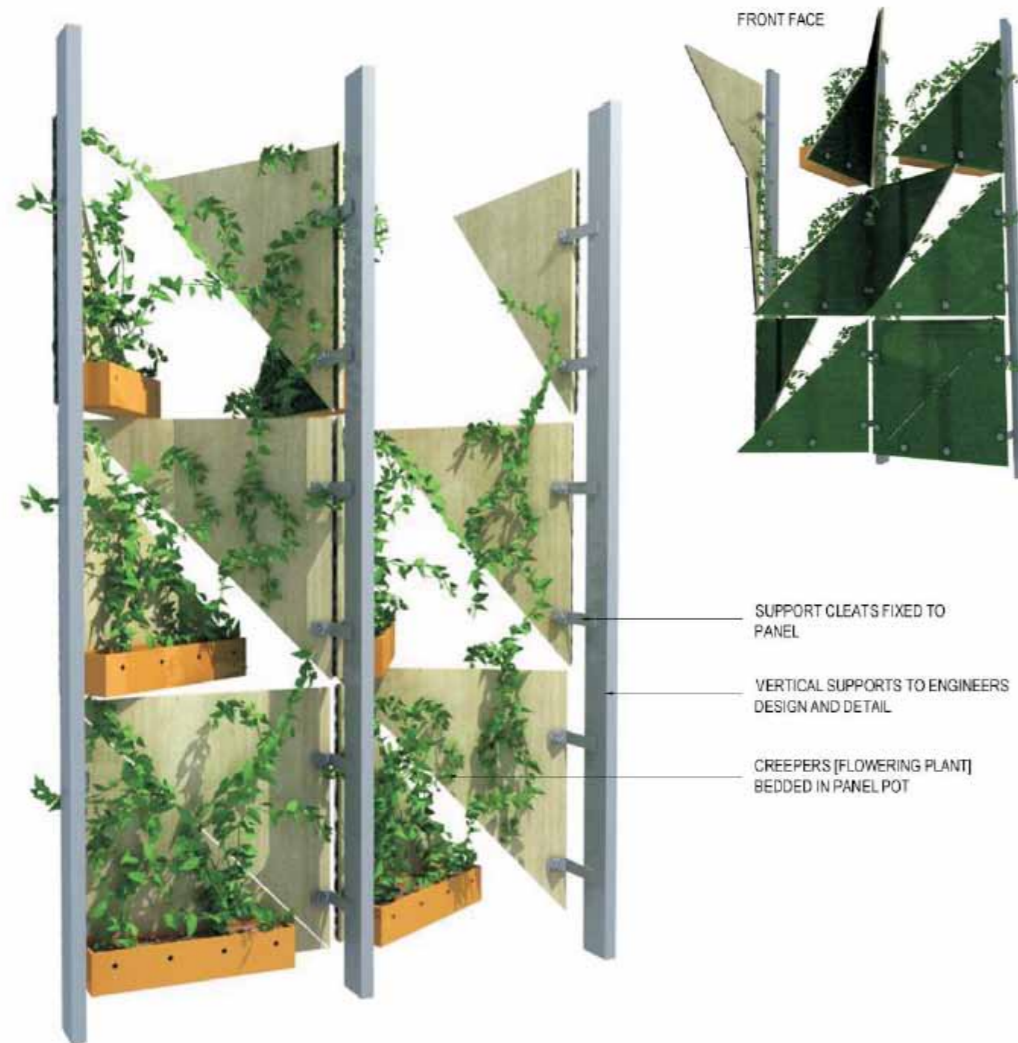
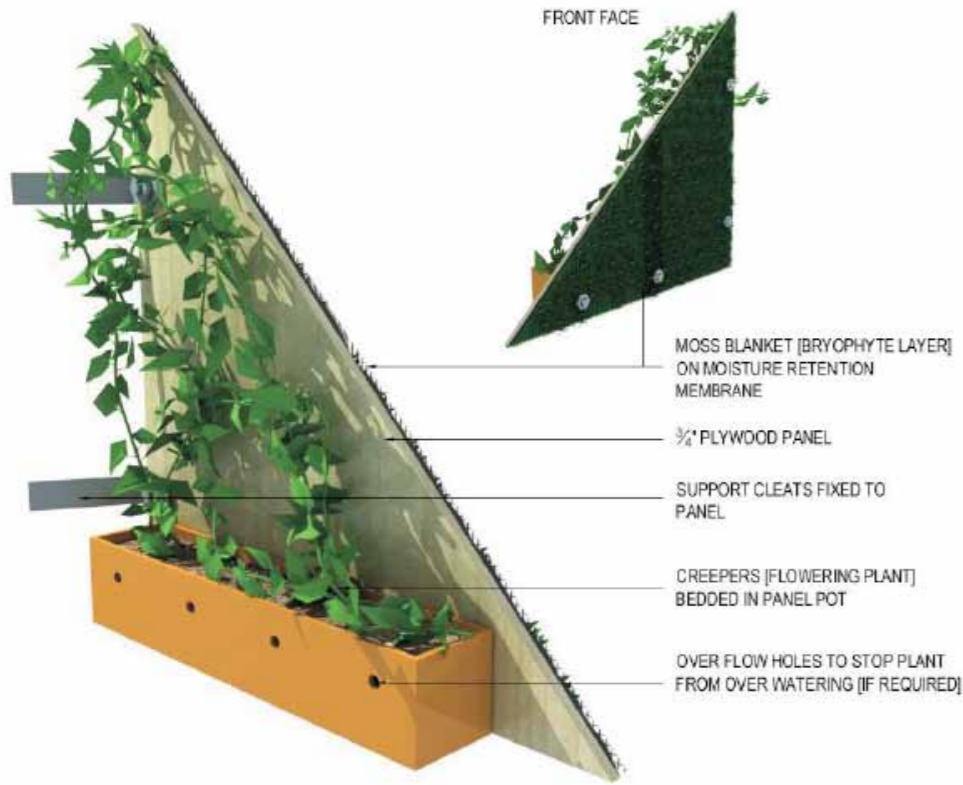


rethinking
AMENITY SPACE



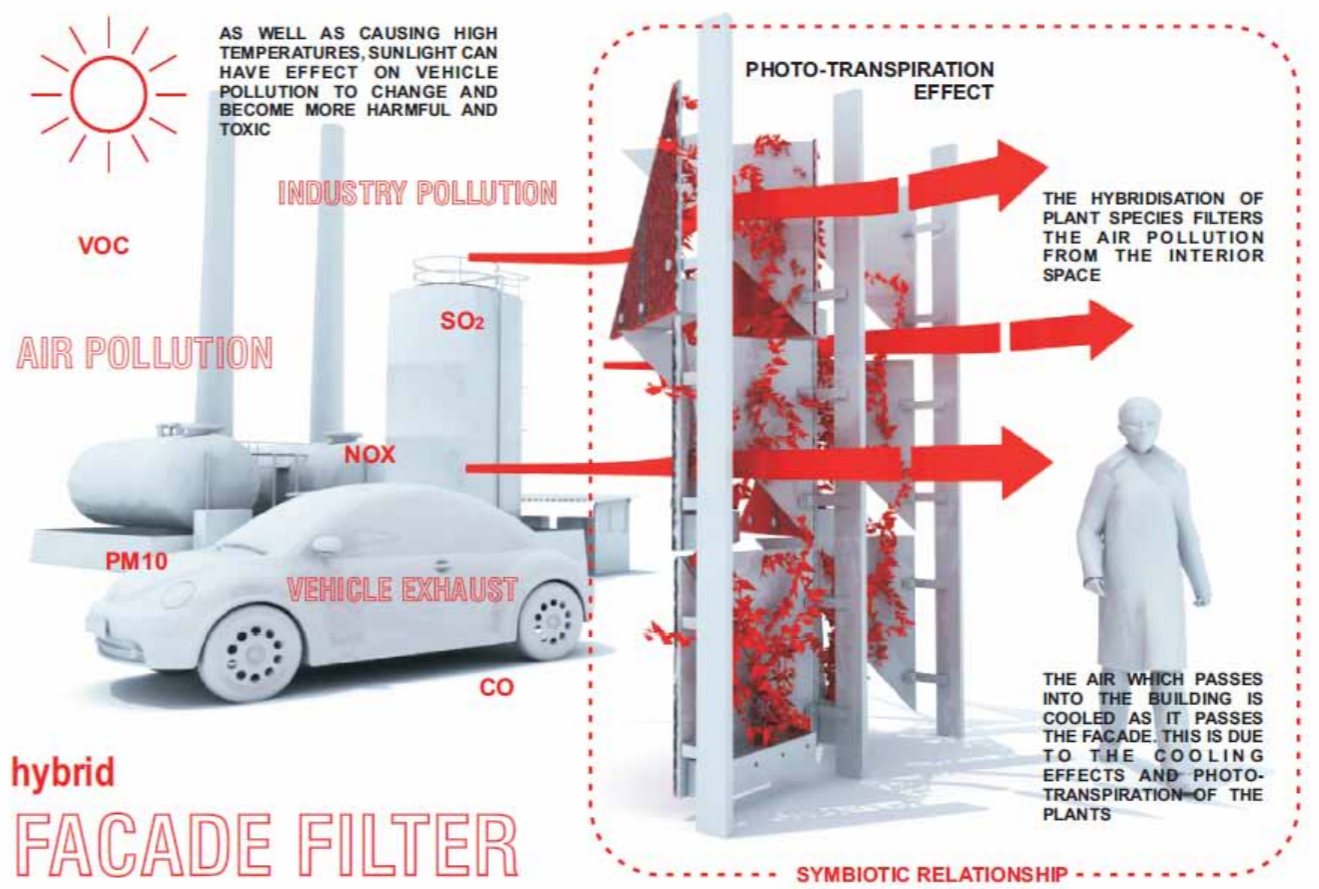
99k House

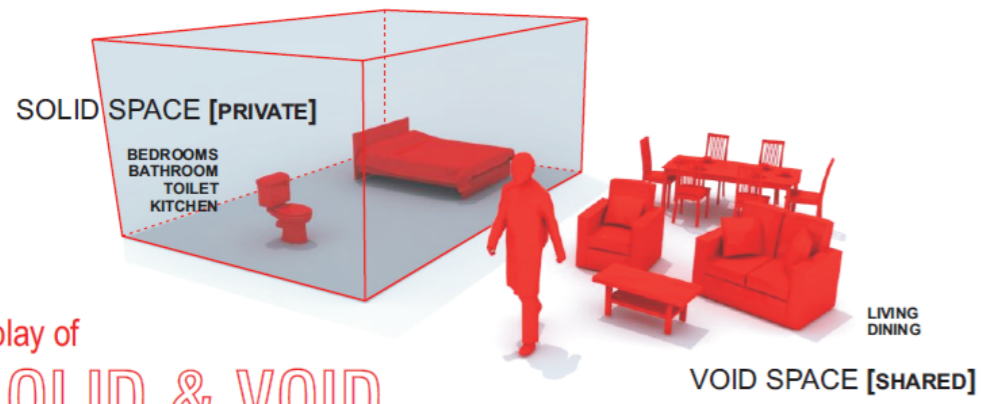
Texas, USA



a house for \$99,000 US

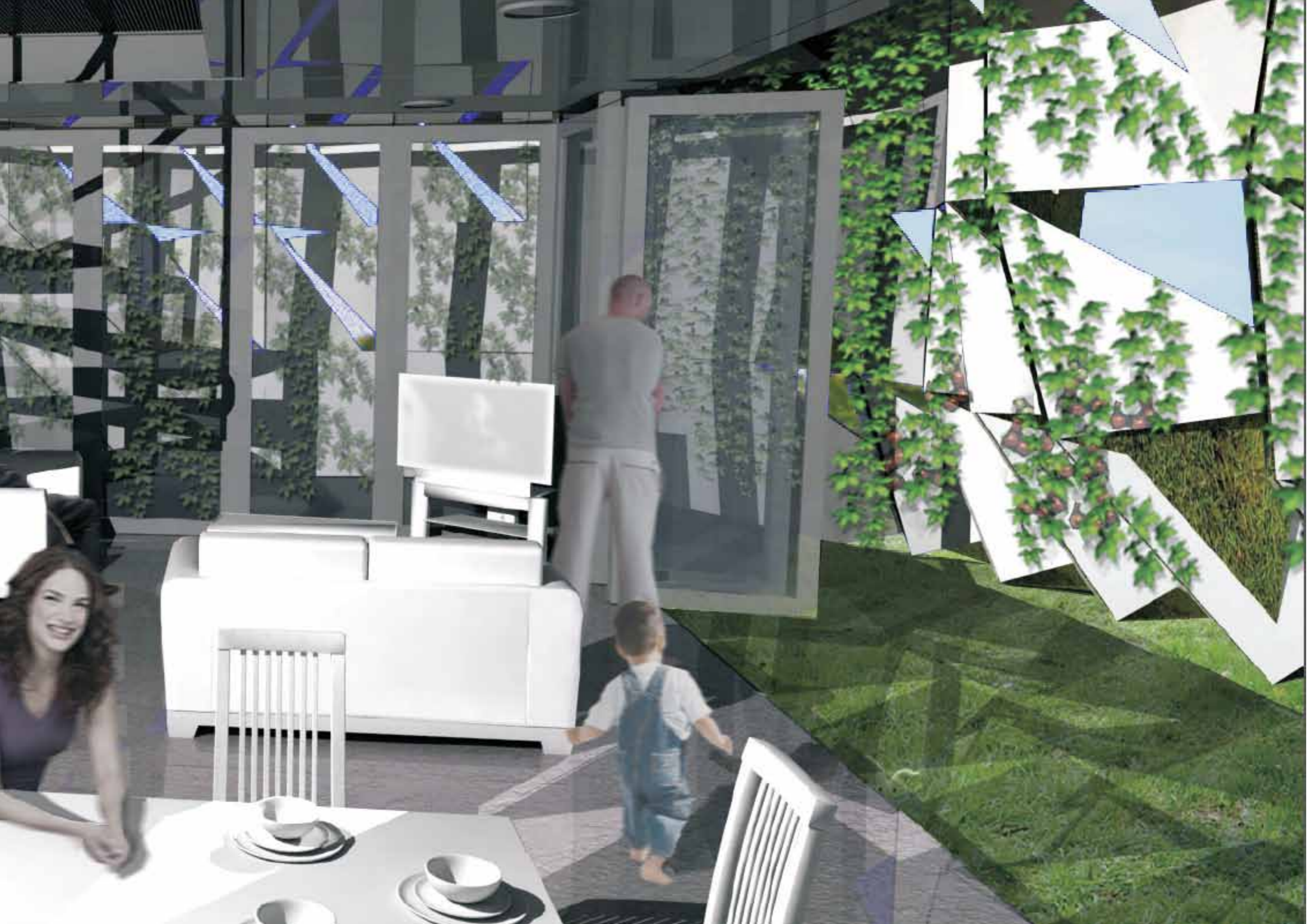
- PRIMARY STRUCTURE**
APPROX \$4,150
- CONTAINERS**
\$1300/CONTAINER + \$300 FIT OUT EACH ALL UP AROUND \$33,000
- STAIRS & LANDING**
APPROX \$7,400
- SERVICES**
APPROX \$18,900
- SECONDARY STRUCTURE**
APPROX \$12,560
- ROOF**
APPROX \$1,830
- EXTERNAL SKIN**
APPROX \$10,790





a play of
SOLID & VOID







01 john mullaylv



02 hostos



03 franz siegel park



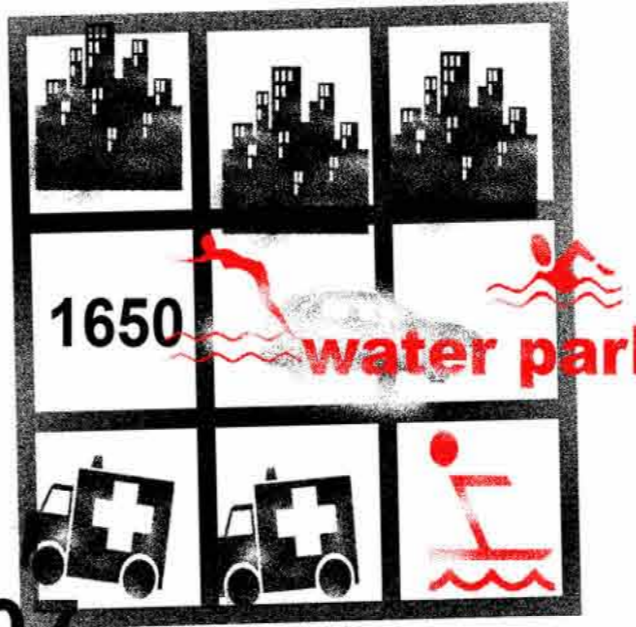
04



05



06



07



08



09



10



11



12

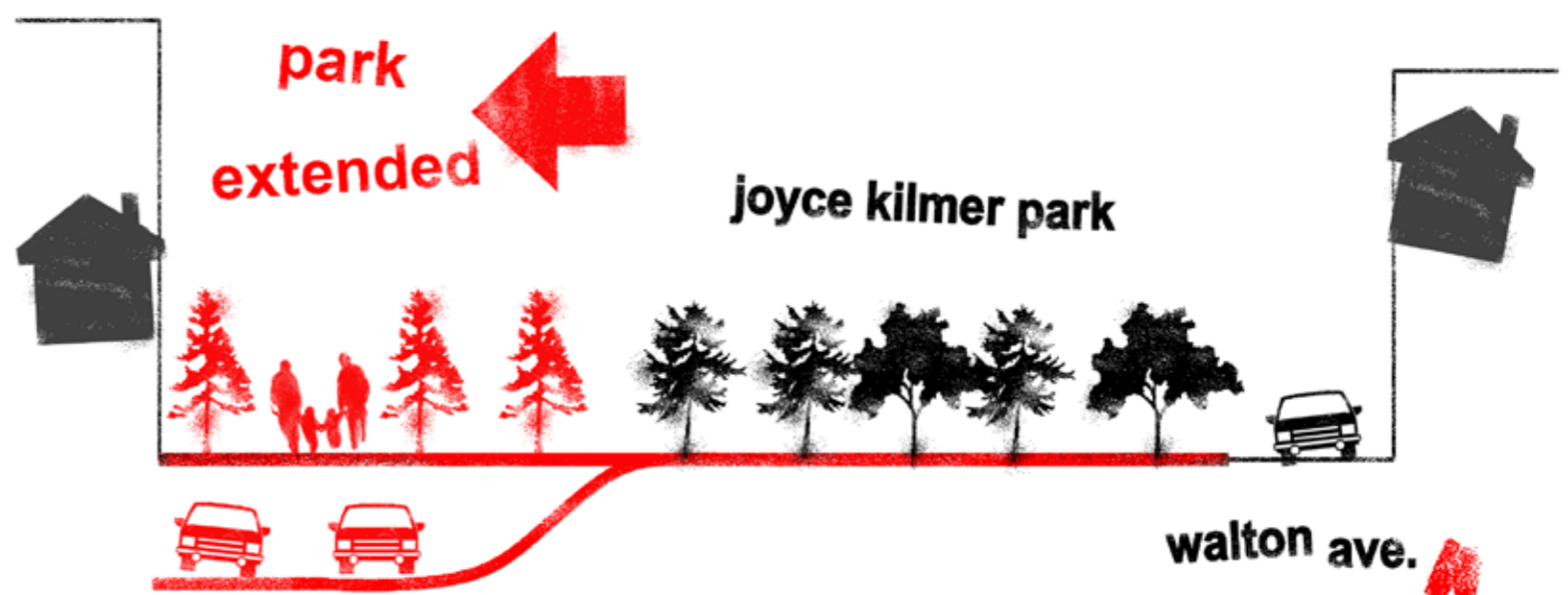
music park
open air
theatre
floral park
water park
floral park
rise sweet
garden
nude park
PROPOSED
CONCOURSE PLAN
THE BRONX
panel 2

Bronx Grand Concourse

New York, USA



PROGRAM ANALYSIS

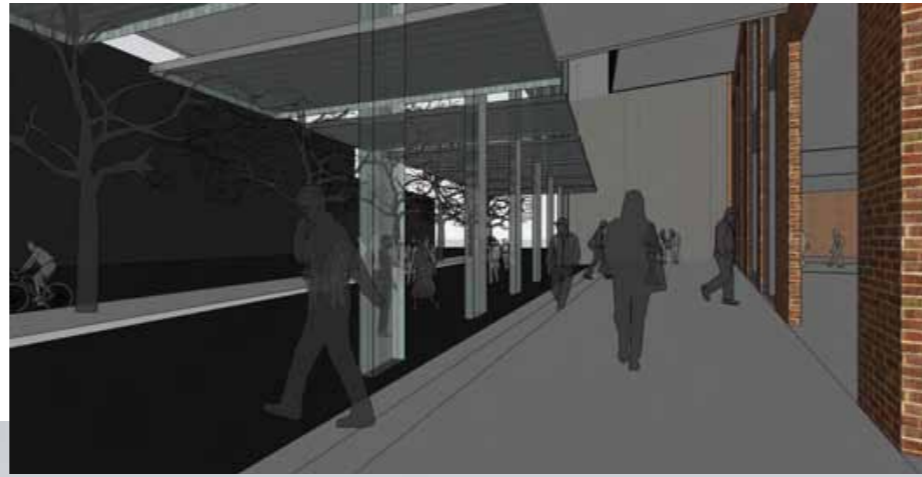


**grand
concourse**

CROSS SECTION

CONCEPT ANALYSIS





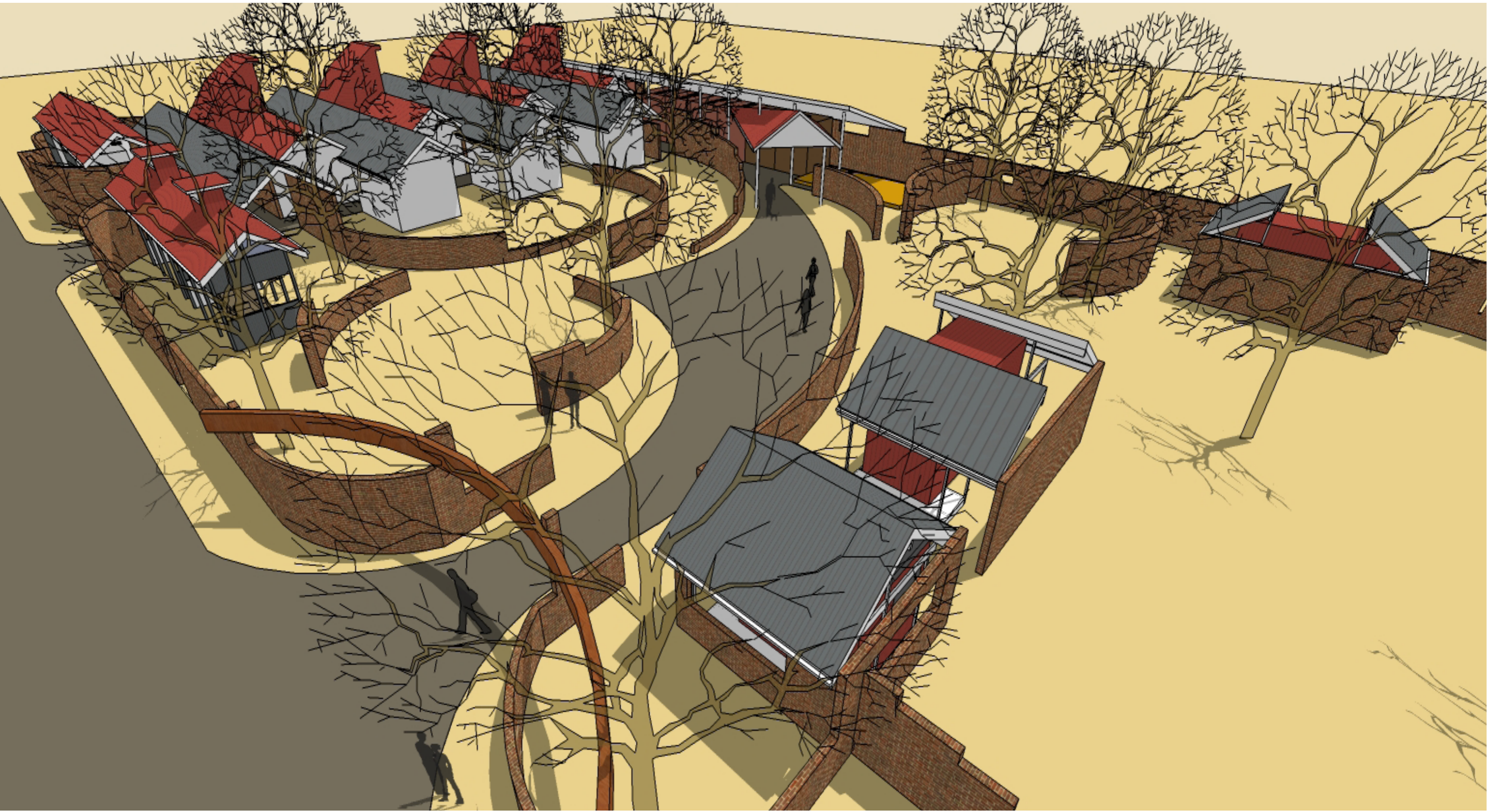
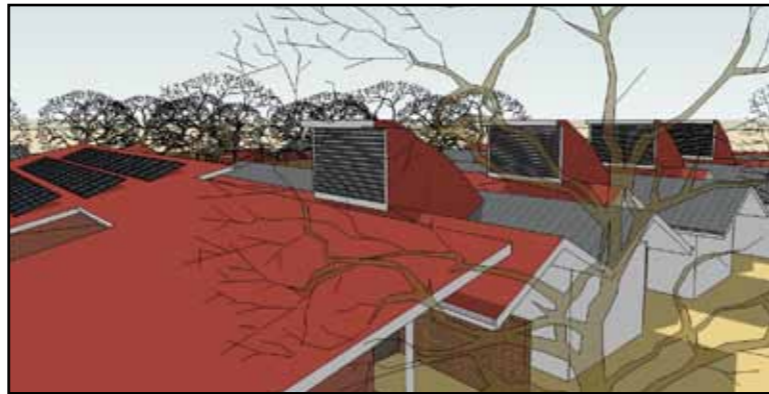
Benneton

Teheran, Iran



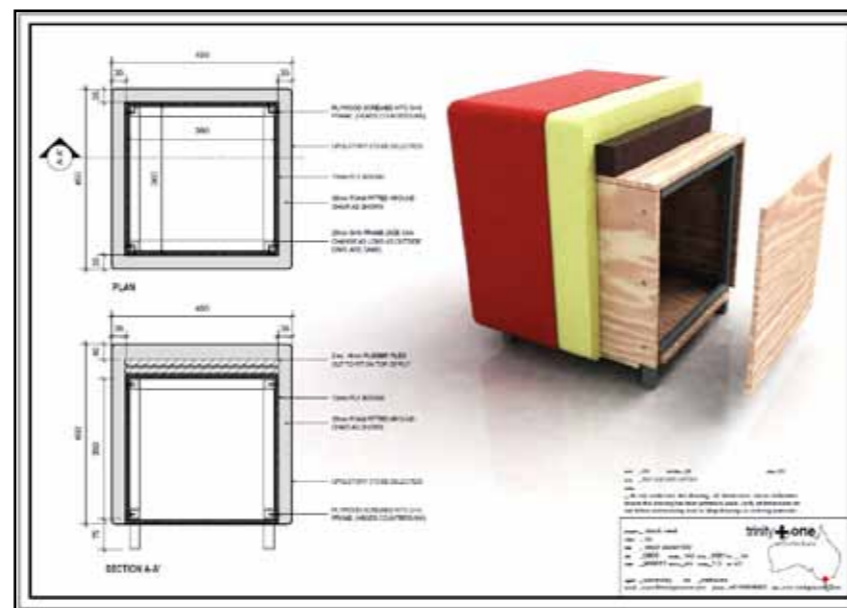
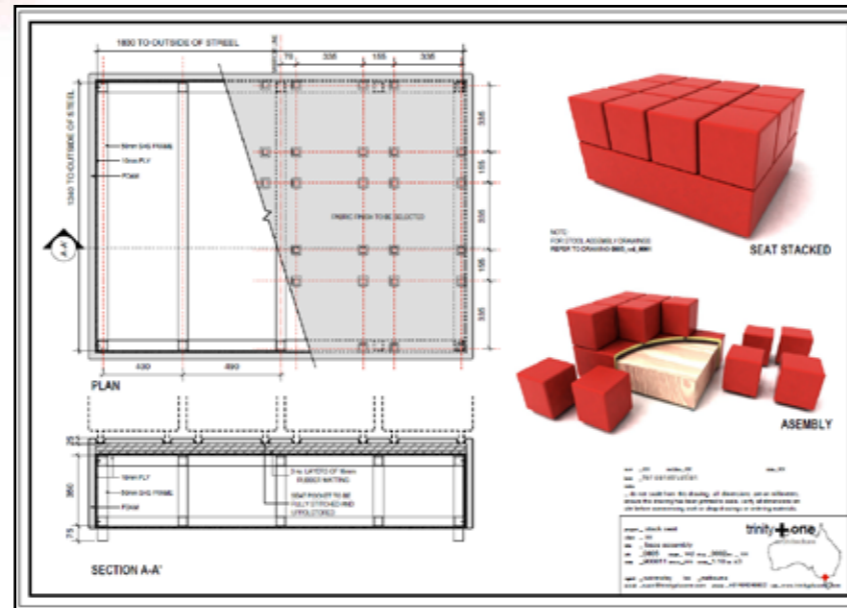
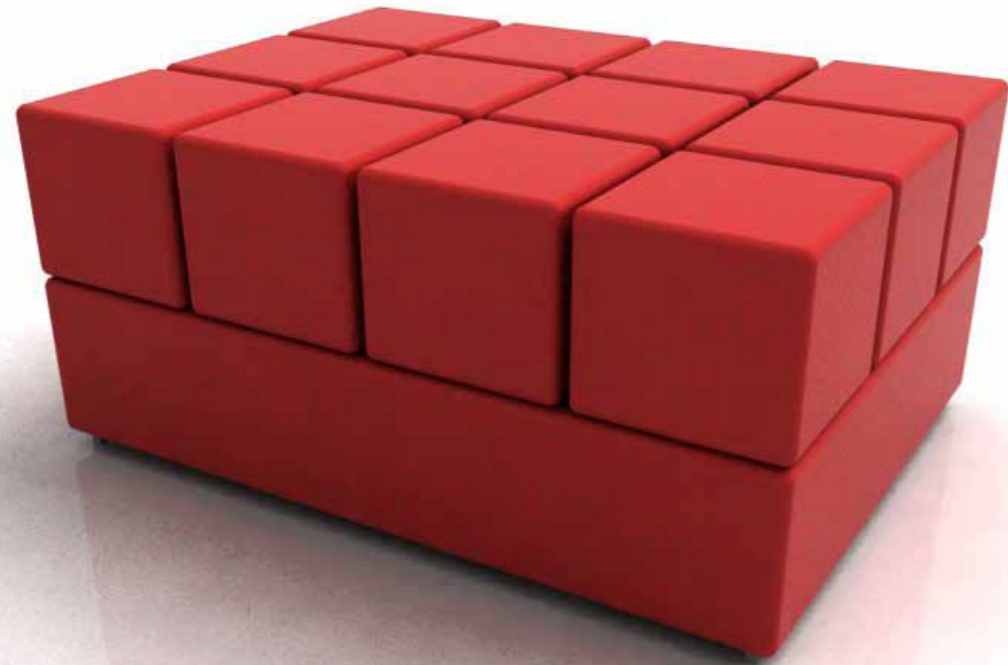
Pediatric Clinic

East Africa



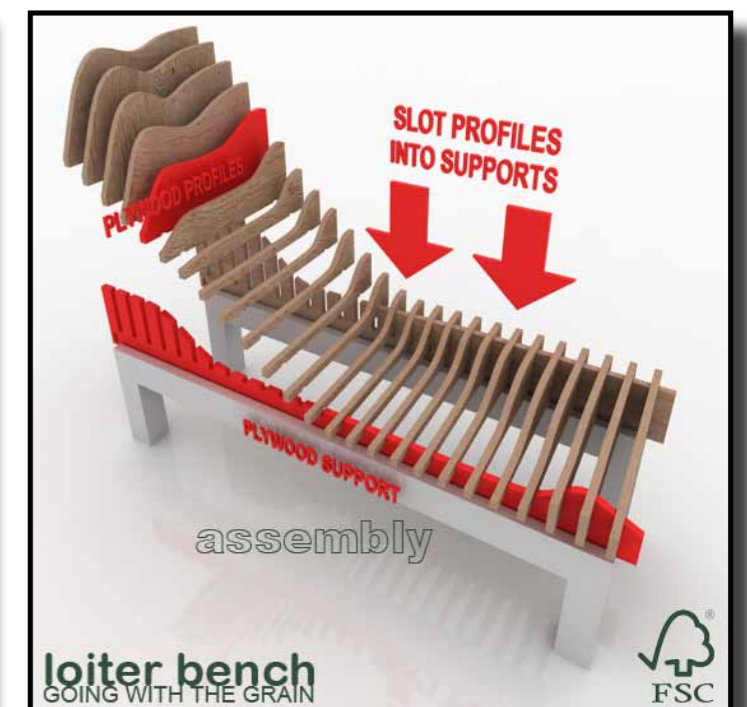
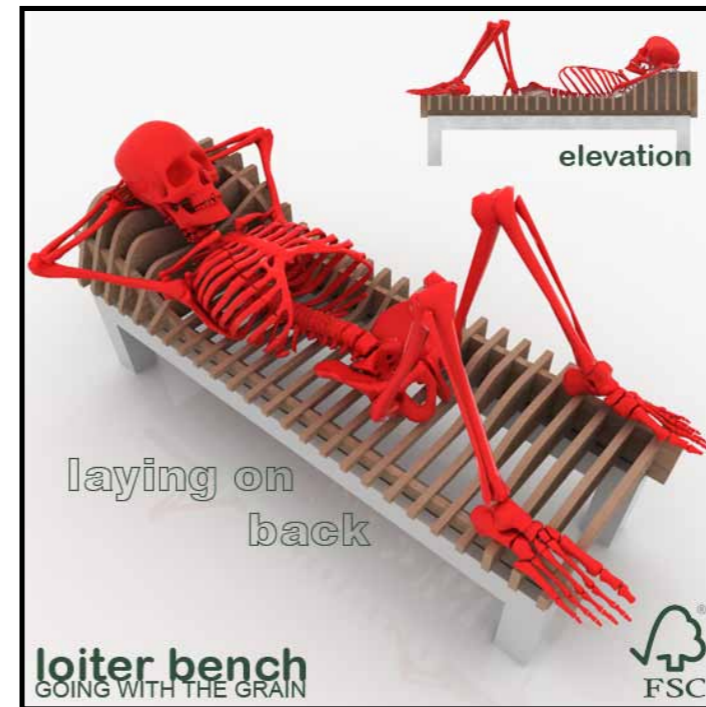
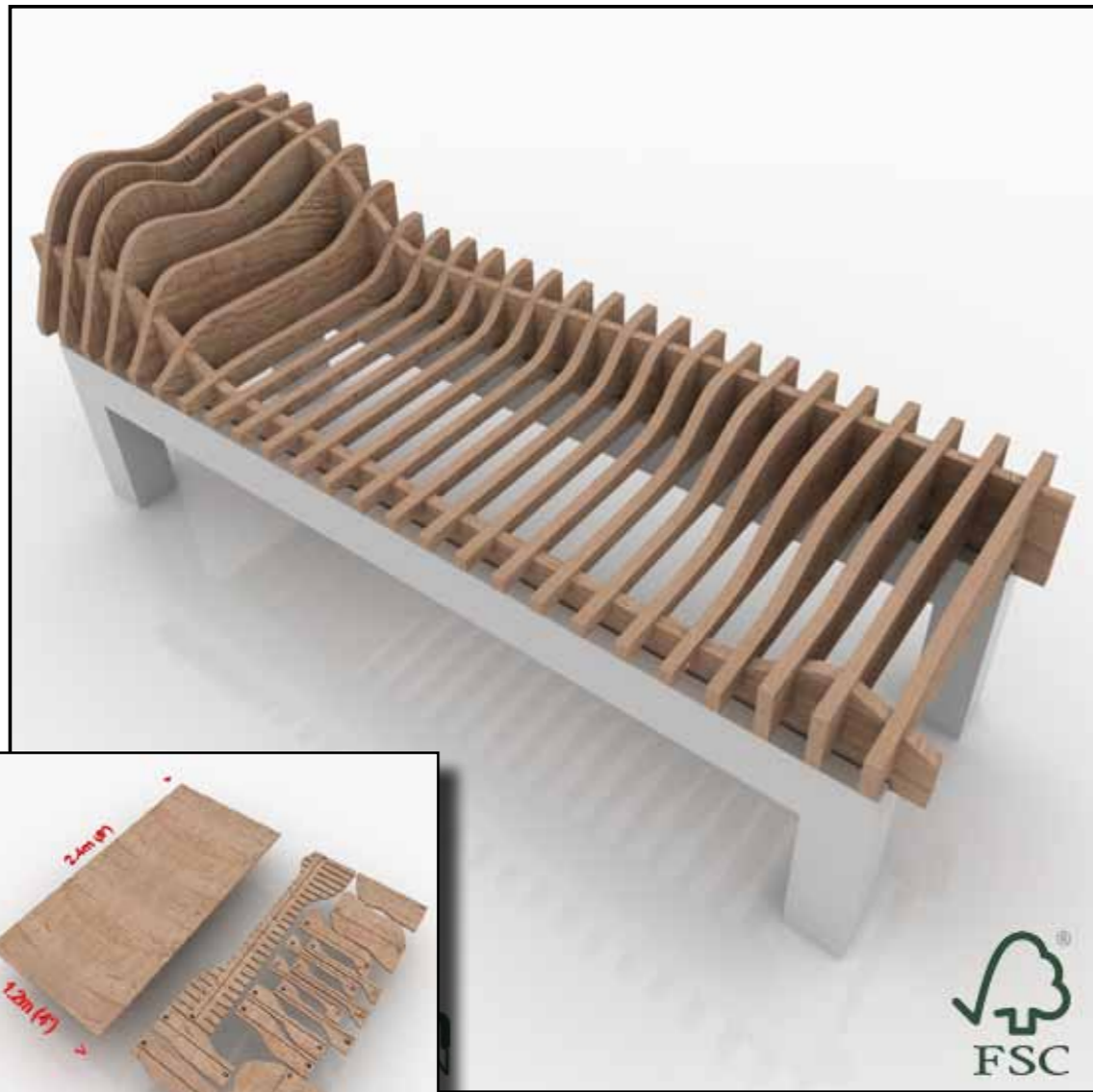
Stack Seat

shared seating



Loiter Bench

ergonomic seating



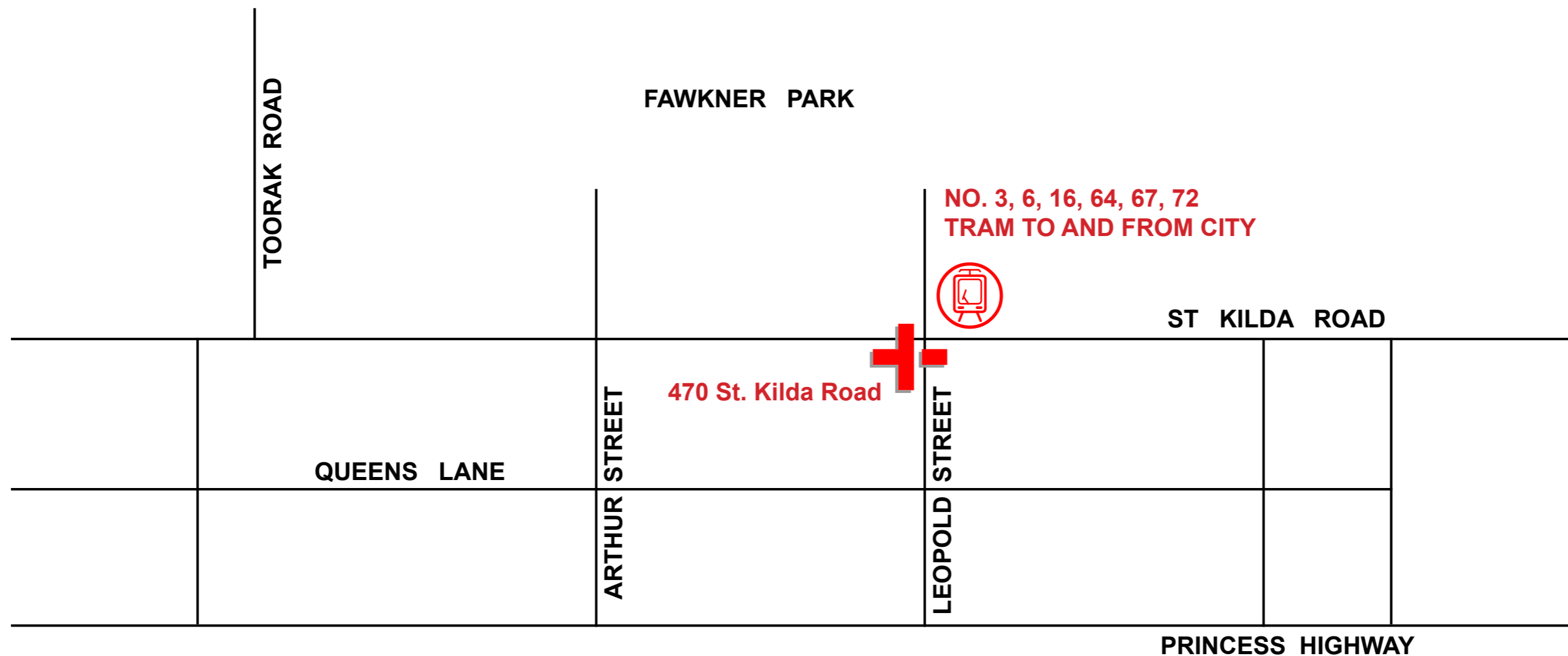
loiter bench
GOING WITH THE GRAIN

loiter bench
GOING WITH THE GRAIN

loiter bench
GOING WITH THE GRAIN

loiter bench
GOING WITH THE GRAIN

Contact Information



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