

CHI UN LEE

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CV

education

2017_present

UNIVERSITY OF WATERLOO SCHOOL OF ARCHITECTURE
Candidate for Bachelor of Architectural Studies Honours Co-op

experience

2019

September_December

INTERN STUDENT ARCHITECT

Moriyama & Teshima Architects

- _Prepared renderings and diagrams and presentations to provide clients using SketchUp, Enscape, V-Ray and Adobe Suite.
- _Contacted consultants to help coordinate renovations of building interiors as well as new installations in high traffic, public institutions.

2019

January_April

STUDENT DESIGNER

Baldassarra Architects Inc

- _Prepared renderings of both two-dimensional and three-dimensional spaces to provide clients with SketchUp and V-Ray.
- _Worked on and edited architectural drawing packages using AutoCAD including siteplans, floorplans and elevations.

2017_2018

EVENTS COORDINATOR

Bridge Centre for Architecture + Design

- _Co-organized various events for the Bridge Storefront by collecting supplies and managing the organization of space.
- _Synchronized with other members of the organization to constantly improve the interior space of the storefront.

distinctions

2017_2019

EXCELLENT ACADEMIC STANDING, UNIVERSITY OF WATERLOO

- _Maintained a +80% Academic Standing in every semester.

2019

June

TOP SHORTLIST, HYBRID WORK X FLY TALL BUILDING COMPETITION

- _Placed top shortlist in a high-rise competition predicting the future.

2018

November

FINALIST, ARCHSTORMING WORLD EXPOS DESIGN COMPETITION

- _Placed finalist in a pavilion design competition hosted by archstorming.

2018

September

FINALIST, STUDIO BLEAK CLIMATE OF DISSENT COMPETITION

- _Placed finalist in a protest design competition against climate change.

2017

September

WINNER + BUILT, WATERLOO ARTS QUAD OUTDOOR SPACES

- _Was part of the winning design team for the Waterloo Legacy Competition.

2013_2017

PRESIDENT'S SCHOLARSHIP

- _Entered the university with a 90-95% Academic Average.

abilities

DIGITAL

Rhinoceros 3D
SketchUp
AutoCAD
3DS Max
V-Ray
Maxwell Render

ANALOG

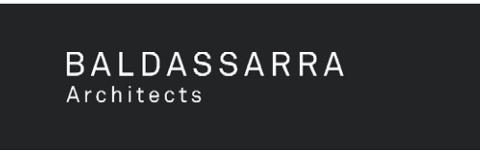
Grasshopper
Adobe Suite
Photoshop
Illustrator
InDesign
Microsoft Office

LANGUAGES

English
Spanish
Korean
French (Basic)
Physical Modeling

7 Melville Street South
Cambridge, ON
Canada, N1S 2T7

+1 647 215 9470
leecanmex@gmail.com
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May 7, 2019

To whom it may concern,

We are pleased to provide this reference letter on behalf Chi Un Lee for the time and effort he dedicated to our firm as part of a 4-month co-op term at Baldassarra Architects from January, 2019 – April, 2019.

During his time at Baldassarra Architects, Chi assisted in the Design Department through the delivery of high-quality 3D model renderings and by providing support in the output of architectural site plans and working drawings. Throughout his time at the firm, Chi consistently displayed dedication and the aptitude to complete assigned tasks. He exhibited a calm, professional demeanor and was a pleasure to have in the work environment. His strengths lie in understanding 3Dimensional space and using computer generated modelling to produce renderings in an efficient manner. Chi utilized and displayed competence in several software programs during his placement including AutoCAD, SketchUp, and Adobe Photoshop.

We are happy to provide additional reference information as required.

Regards,

A handwritten signature in black ink, appearing to read "Michael Baldassarra".

Michael Baldassarra MBA, BASc
Baldassarra Architects Inc.

Hi There!

My name is Chi Un Lee and I am currently enrolled in my third year of study at the University of Waterloo School of Architecture.

The following is a collection of works that I was able to take part in throughout my studies.

Please enjoy!

AAVA

ACADEMIC

_cleanse	#08
_heterotopia	#16
_gaia	#20

CLEANSE

A thermographic interpretation.

Due to heavy industrialization in the Grand River Watershed in the early 20th century, the introduction of pesticides from the farming industry polluted the Grand river significantly. When looked from afar, in the span between the Shand Dam and Galt, there is a rise in pH levels, water temperature. Not to mention, river data also shows high levels of phosphorus and nitrogen due to wastewater.

The project intends to solve the river quality in Galt in order to protect the surrounding ecosystem in the area as well as to create an engaging space for residents of the town while preserving the town's industrial personality. This led to the choosing of three main components: the reincorporation of the power station, aquatic species preservation and addressing water quality. Taking inspiration from new water filtration systems, including living systems and crystalizers for wastewater

treatment, which involves boiling to separate mixed solids from the river water, the project became a filtration device that filters the flowing river water more efficiently with living systems and man-made systems.

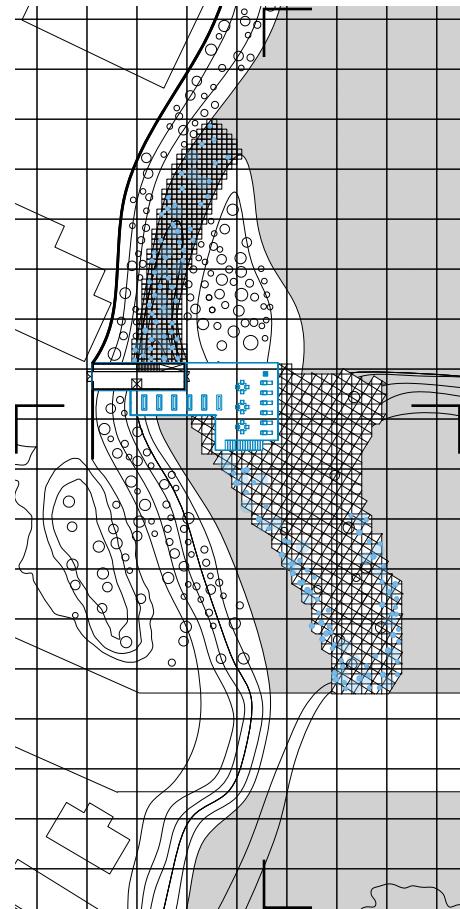
The powerstation at the same time would generate enough power for over 500 homes in the Galt area, while also providing aid to the filtration system using a sophisticated heat recovery system, which would efficiently recycle energy that would otherwise be wasted onto the boiling mechanism of the crystallization process for wastewater treatment.

The newly cleansed water would then be used as a new public amenity for Galt: a bath house that would bring the community closer to one another as well as act as a cooling system to lead back to the river as temperature is an essential factor for the surrounding ecosystem, especially for two threatened species that spawn in the area.

Year_ 2019
 Team_ Individual Work
 Type_ Hydroelectric Powerstation
 Site_ Galt, Ontario

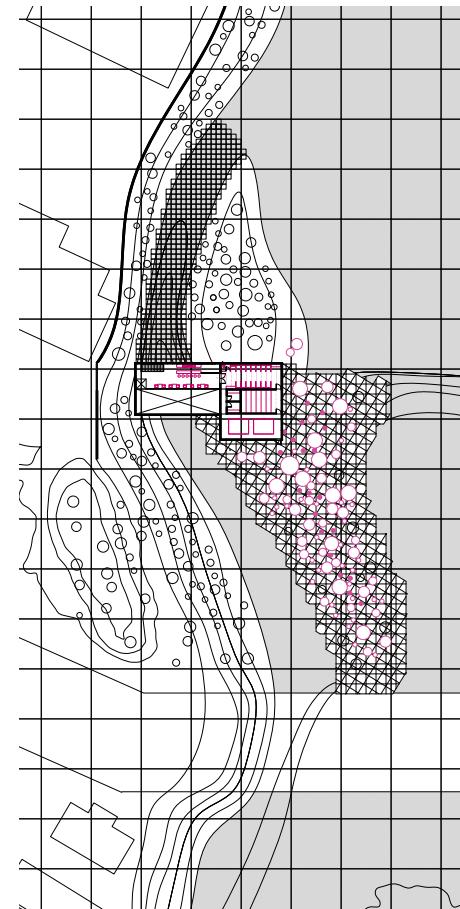


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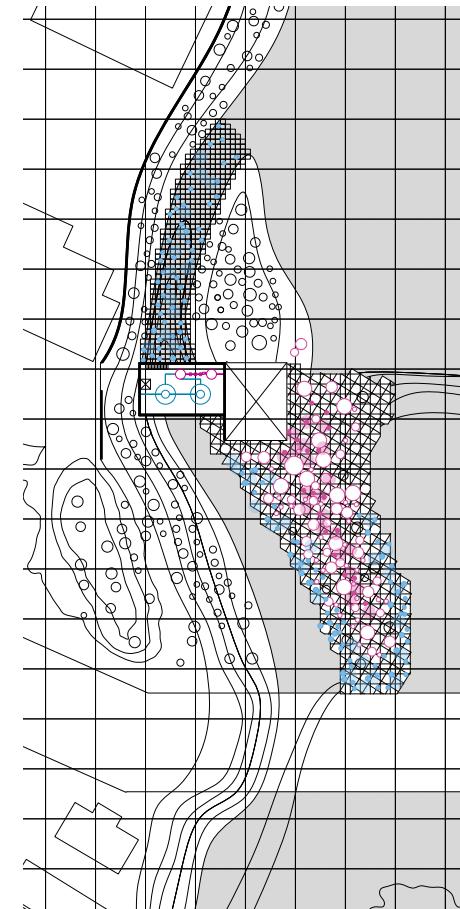
'Floor Plan_Ground Floor'

The cooler spaces are interact more with the existing site temperatures.



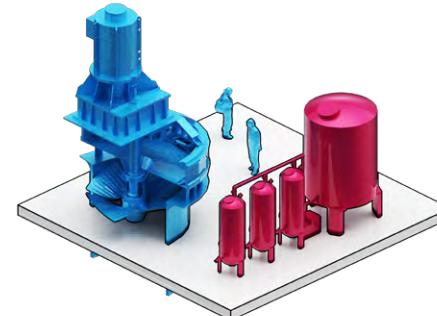
'Floor Plan_Basement 1'

The more heated mechanisms are located in higher altitudes of the topography.

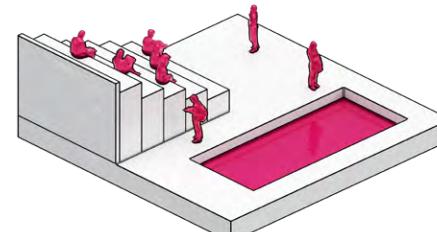


'Floor Plan_Basement 2'

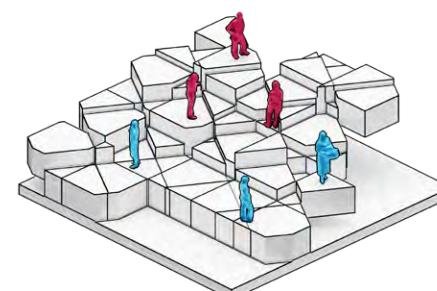
The mechanical system of the power station and the surrounding ecology allows a natural flow for heated areas for human satisfaction to cool down for the wildlife.



Diagram_ 'Mechanical Room'



Diagram_ 'Sauna Space'



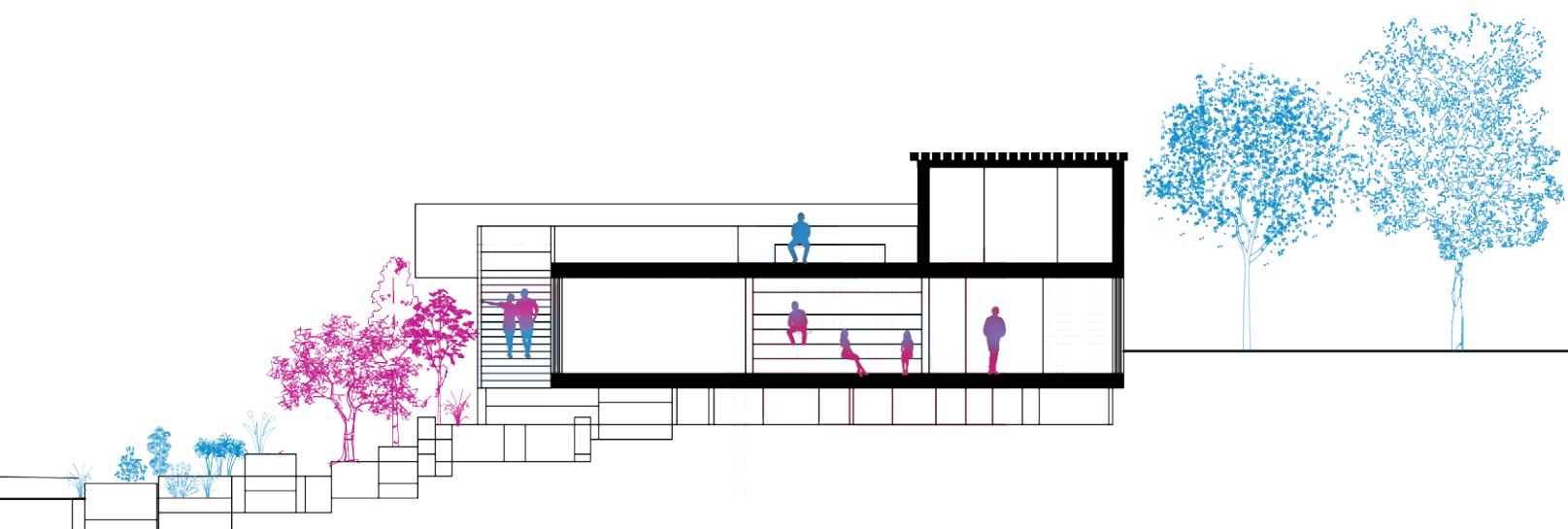
Diagram_ 'Landscaping'



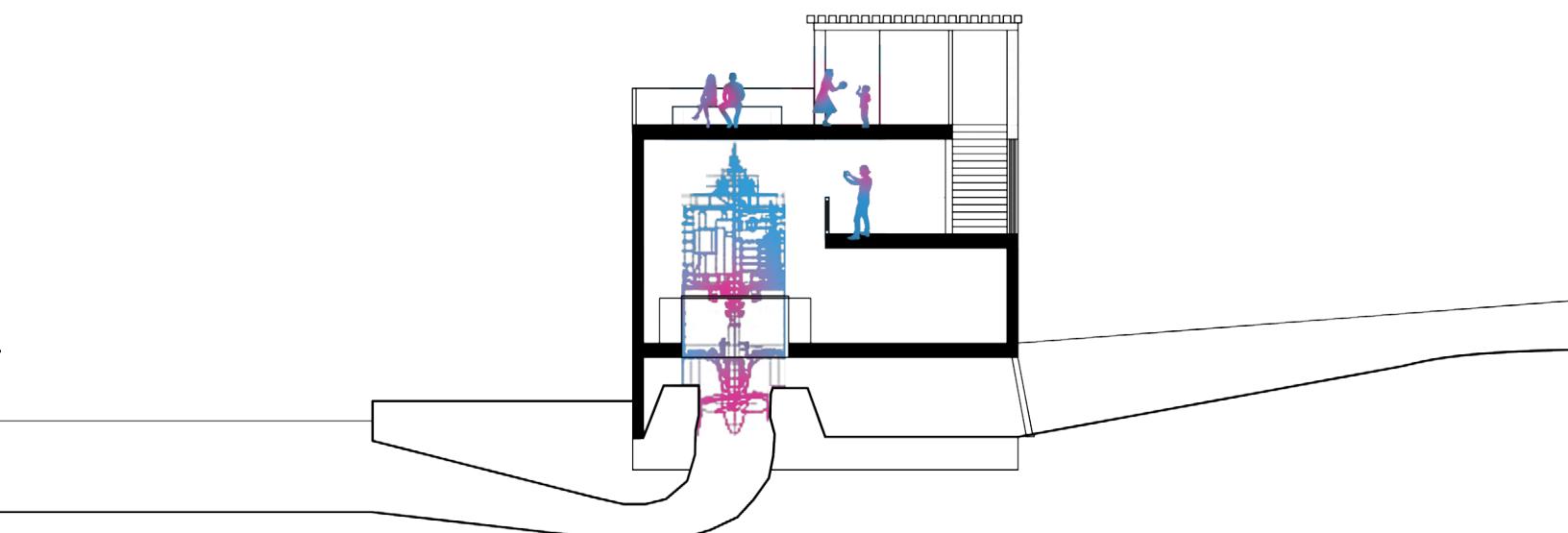
Experimental Model_ 'Water Experimentation'



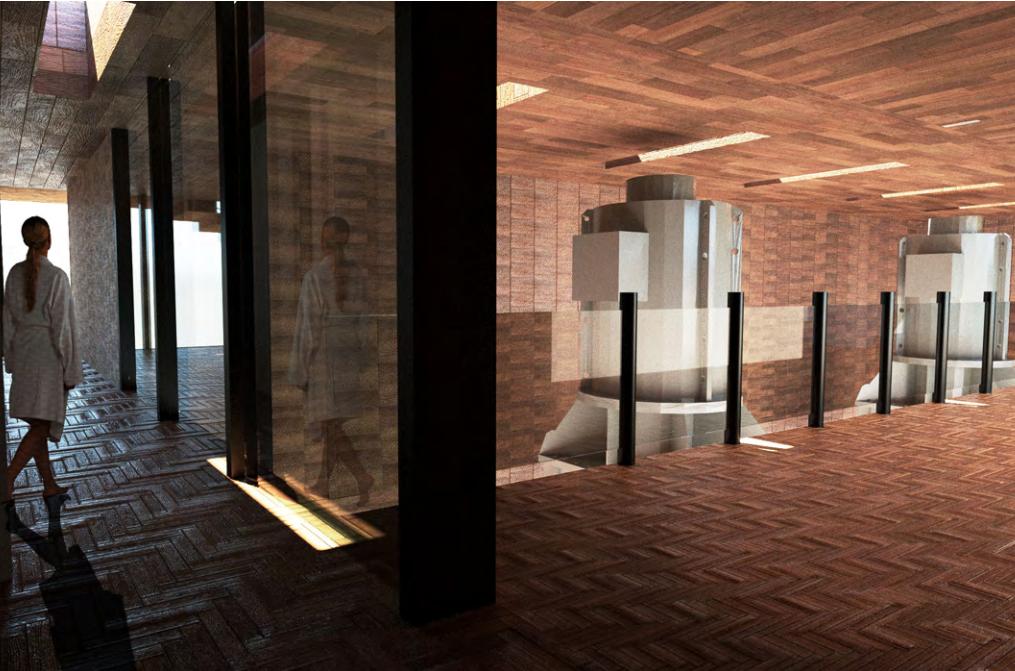
Experimental Model_ 'Resin Experimentation'



'Longitudinal Section A-A'



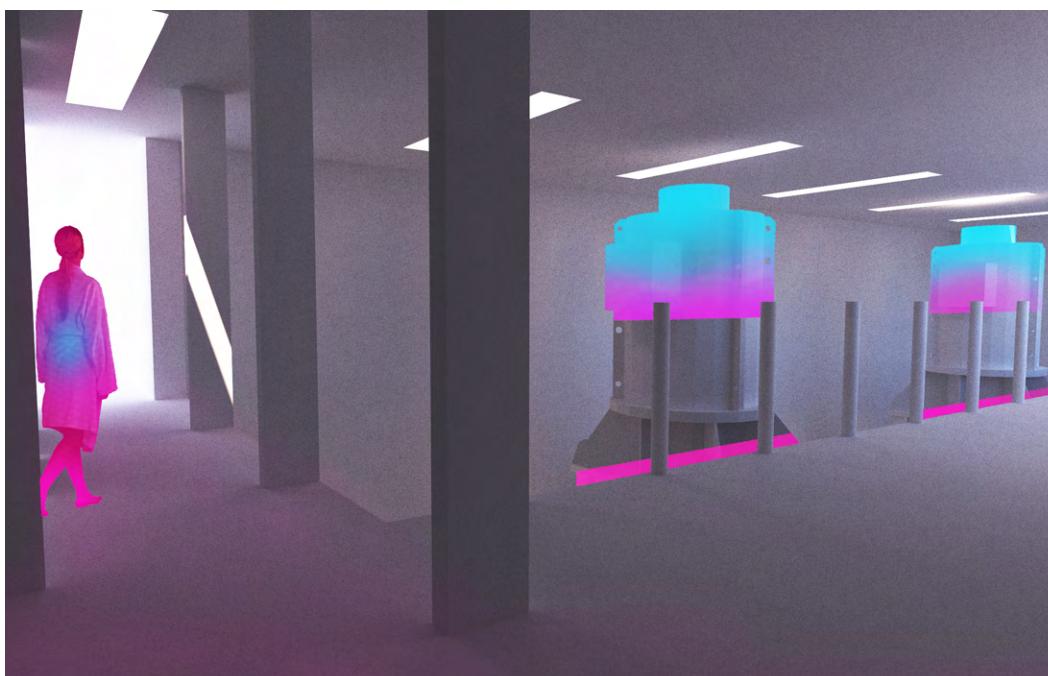
'Cross Section B-B'



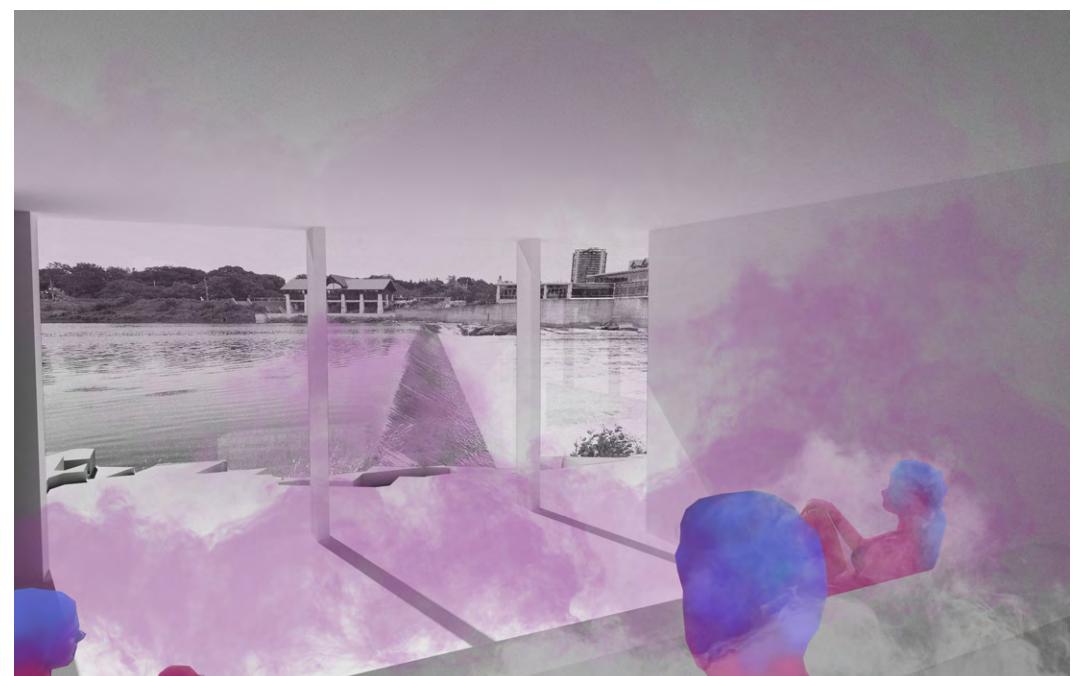
'Perspective_Mechanical Room'



'Perspective_Sauna'



'Thermographic Interpretation'



'Thermographic Interpretation'



'Perspective_Balcony'



'Thermographic Interpretation'

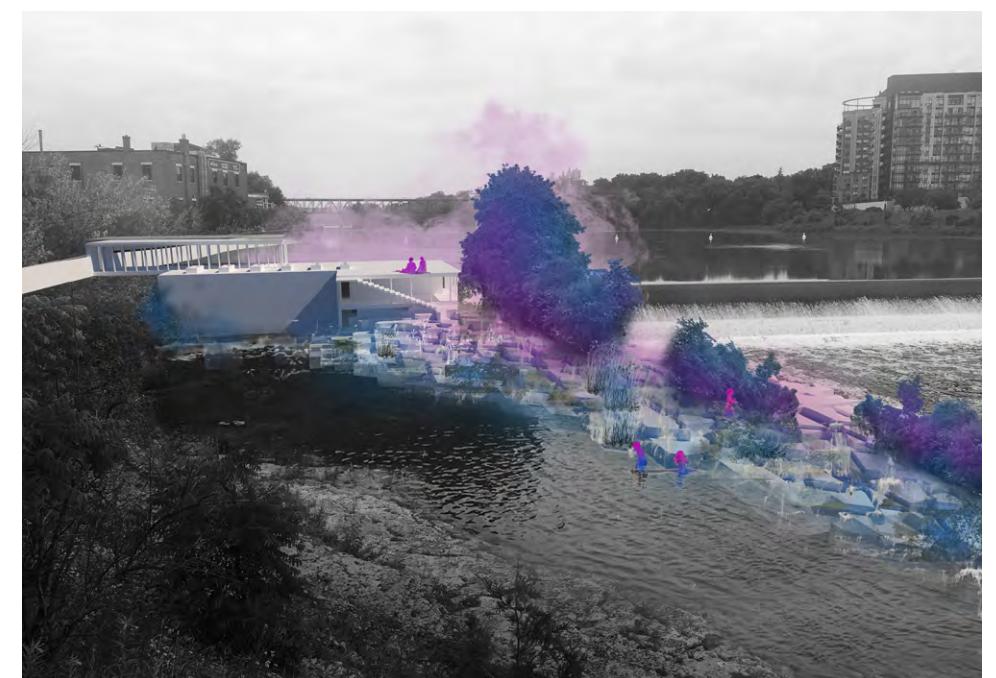


Top_

'Rendering of the
hydropower station
from the bridge.'

Bottom_

'Thermographic
interpretation.'



HETEROTPIA COUNTERPOINT

You look up, trying to see how far the stilts extend; A dense fog obscures the extent of the massive columns you move up through the transparent shaft between pillars which grow tall into the sky.

The earth shrinks below your feet before dissolving into mist. You are caught between earth and sky. The columns around you transform into a forest, which emerge from a terraced valley, all pressed beneath a soft, sloped canopy. As you navigate up the flowing layers you push past chattering folk, who live close to their substance, close to the fields and among the animals and observe the gathered masses in the sacred Circle.

You move to escape the chthonic womb below, certain it will soon devour you. And after passing through a floor are relieved to find a more well-maintained space above, gathered between 2 planes, a marketplace, full of diverse activity. Commerce is booming. You meander through the streets, beset by

shops and vendors who compete for your attention and money. You stumble into the writhing mass. Gradually you slow, and find yourself in a steady flow of people, streaming around a copper platform all in an void

You follow, ascending into the belly of a dark pyramid, a bright light above you, hope: a temple, held high by a concrete tower. In time, you emerge through the floors into a symmetrical hall, immaculately white you follow the others the air here is crisp and odourless.

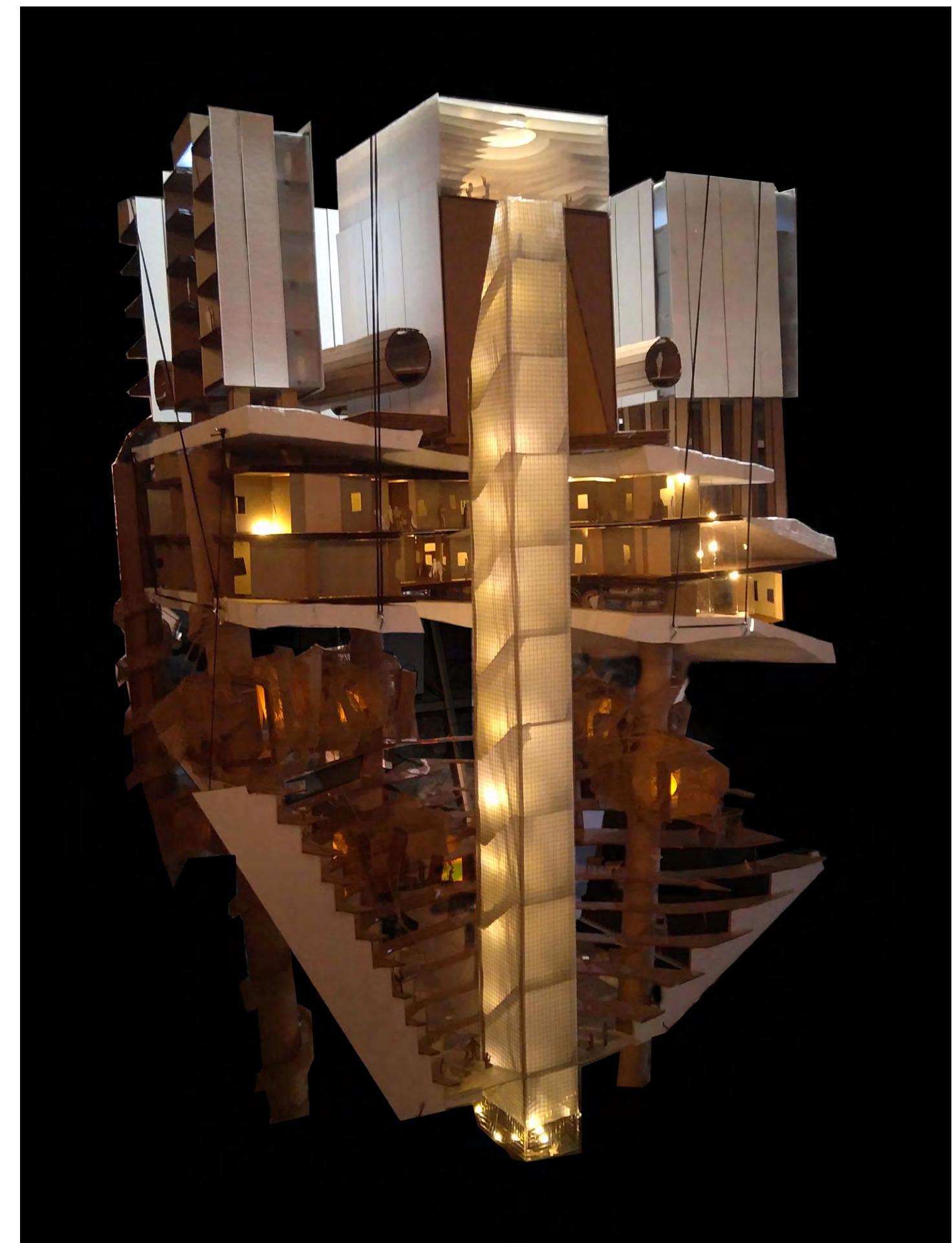
Through the glass see the walls, dignified marble-clad towers rise rightly above the topography below, raised on a grid of pilotis which remove them from the earth. Looking out through to the city below, the distant people move like ants in a line, and your skin seems to fit wrong. You are at once too big, and too small: reality is too far removed, yet still crystalline in its clarity you blink. your body aches.

Year_ 2018

Team_ Annie W., Ben H., Bill CM T., Christa H., Sparsh G.

Type_ Conceptual City

Recognition_ Exhibited in Bridge Gallery

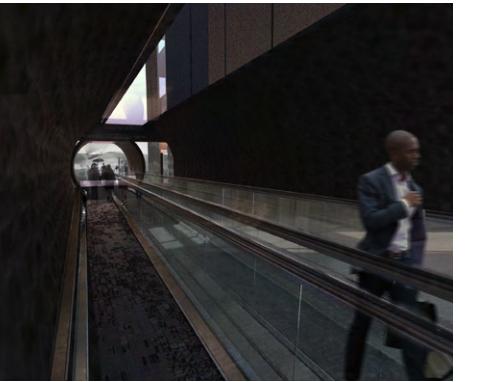




Perspective_ 'The Substrate'



Perspective_ 'The Membrane'

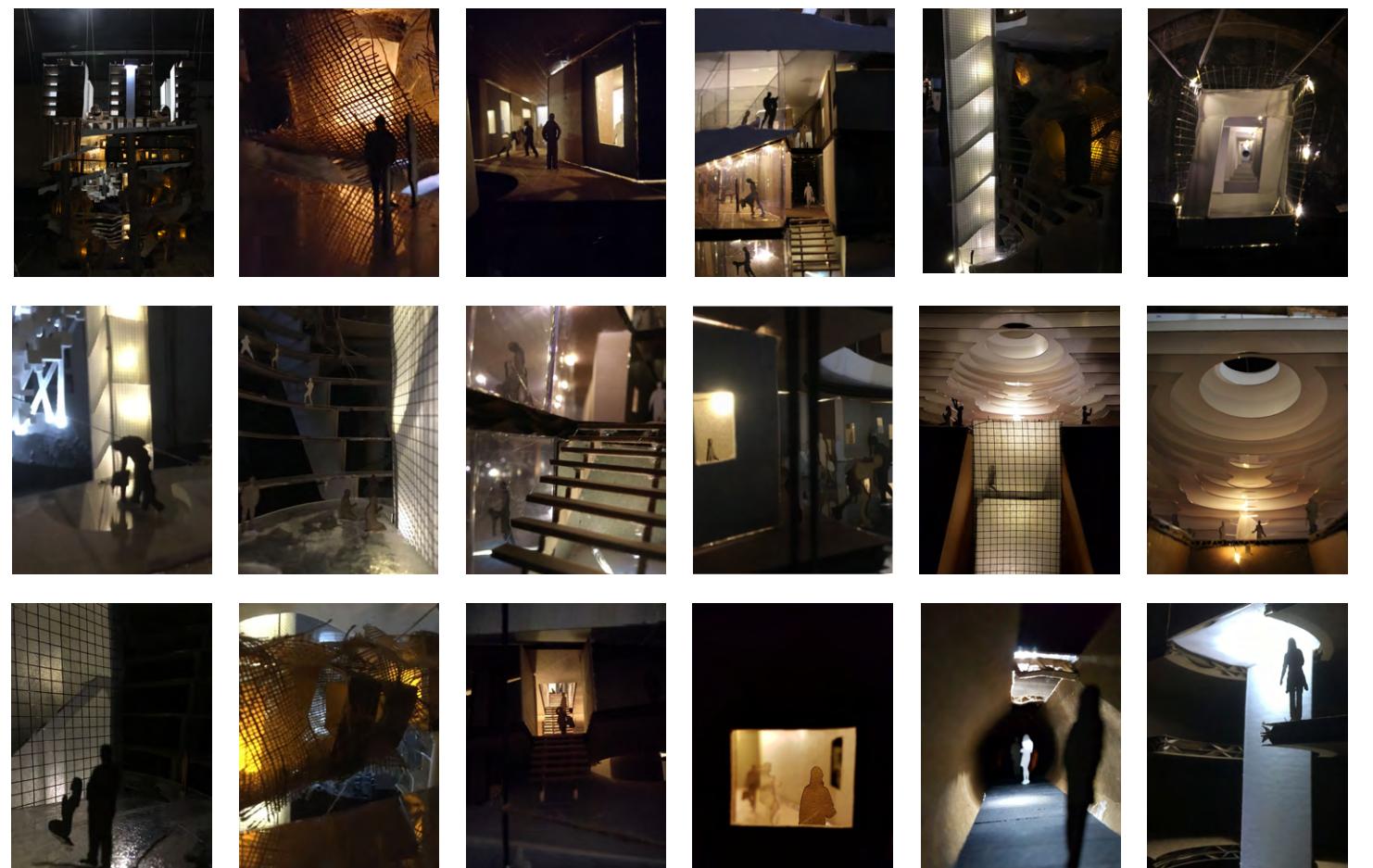


Perspective_ 'The Superstrate'

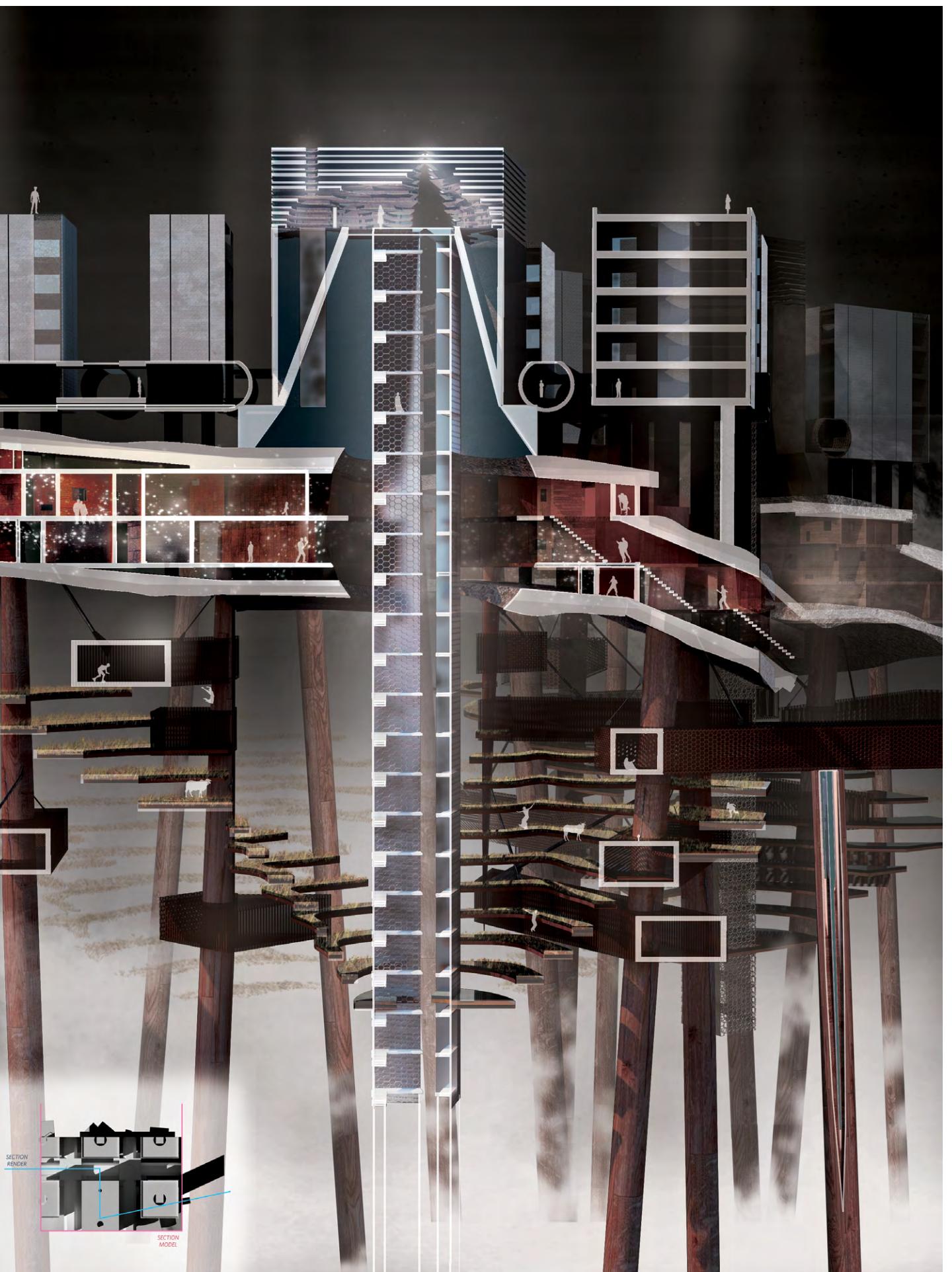
The Substrate exists in the lowest level of the Heterotopic City Counterpoint. It takes the form similar to pastoral architecture as the area is supposed to symbolize a low income society that runs in a free manner.

The Membrane is the middle ground, the connector of the substrate and the superstrate. It takes a wide range of forms from commercial architecture. This area connects the people and culture of the substrate and superstate, which creates a chaotic atmosphere.

The Superstrate is located in the uppermost canopies of Counterpoint. With the society here consisting of higher class, structured beings, everyone has an abundance of monetary values but lack freedom. The architecture can be characterized as authoritarian.



Right_ 'Perspective Section of Heterotopia: Counterpoint'



GAIA

Welcome to Gaia, where we bring to life the newest generation of inspired living.

Nestled between 80 square kilometres of distinct landforms, the rocky peaks of the Ourean Mountains and glimmering waters of Lake Thalassa, Gaia is born from its spectacular geographic setting. Not only does Gaia provide immediate access to unique and stunning vistas of the surrounding landscape, she is a breathtaking combination of bold urban culture and rugged montane terrain, to host over 40 000 people on a daily basis.

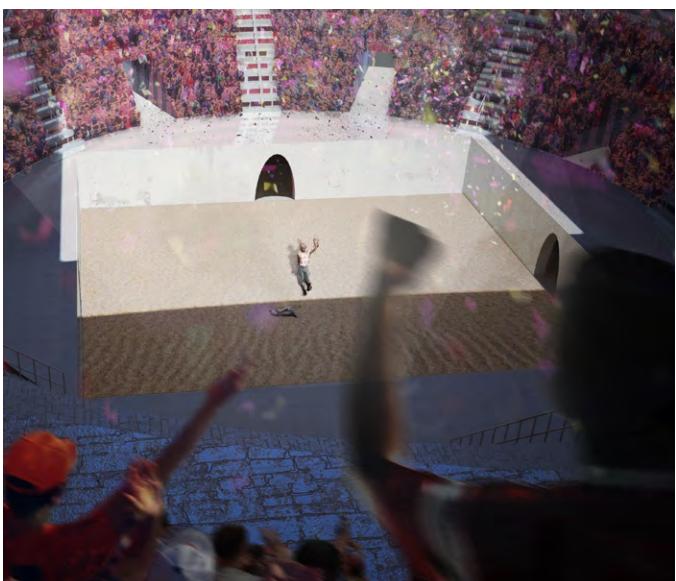
At the core of Gaia is an interconnected network of systems which work to promote life and wellbeing. Fueling human prosperity, you will be part of a project which helps to realize humanity's full potential as the only life-form remaining on Earth. Gaia turns away from the failed methods which extinguished all non-human life, focusing instead on a new lifestyle of reuse and recycling.

Gaia's systems are environmentally conscious, focused on minimizing waste of useful materials. Since time immemorial, we have allowed our biomass to be underutilized, and it's potential-energy untapped. By continuously reclaiming and reprocessing human bioenergy, Gaia harnesses the renewable resource of human biomass. With our advanced methods, you can be sure that harvesting biomass is the most efficient way to synthesize compounds no longer readily available in the post-zoic.

Taking full advantage of the absence of non-human organisms such as bacteria and fungi (which had in the past broken-down organic materials), large quantities of biomass energy can be stored without the risk of energy-theft, both in everyday objects and in buildings. Biomass is produced and harvested using intelligent control, and is organized centrally for a very controlled process.

Year_ 2019
 Team_ Alexey V., Bill CM T., Marco A., Teodor M.
 Type_ Utopia/ Conceptual
 Recognition_ Received top iconography mark





Top_

'Map of the dystopian city, Gaia.'

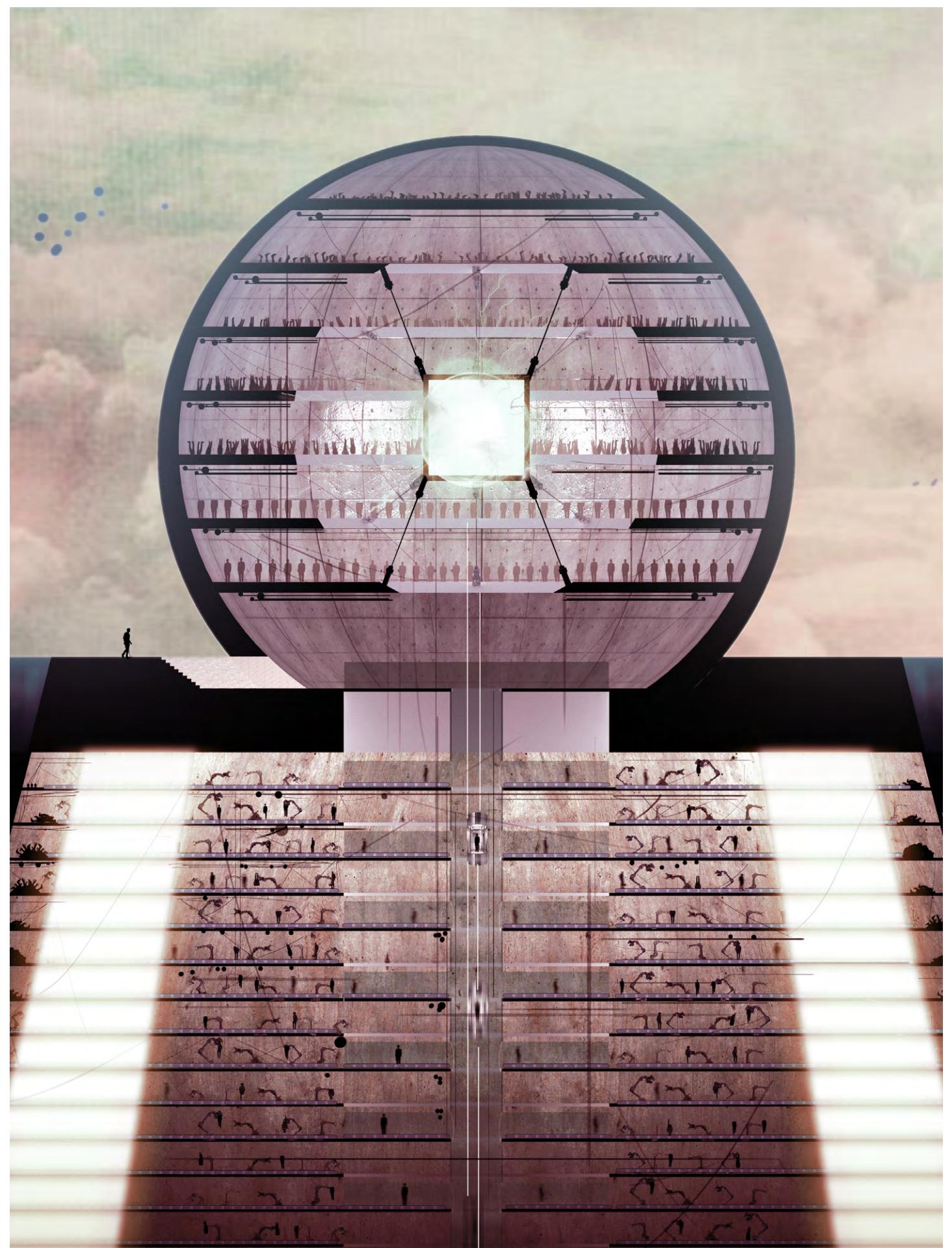
Middle_

'Rendering of residential towers built from flesh and ivory in a structural rationalist manner.'

Bottom_

'Rendering of the stadium, which embodies the cannibalistic culture of the society.'

Right_

'Section through Mother.'



Left_ *Rendering of Mother*

COMPETITIONS

3

_resilient commune	#28
_nest	#34
_sound mound	#38

RESILIENT COMMUNE

The Resilient Design Institute states, "Resilience is the capacity to adapt to changing conditions and to maintain or regain functionality and vitality in the face of stress or disturbance. It is the capacity to bounce back after a disturbance or interruption."

After storms have passed, what will people find in its wake? How can we further the theme of resilience beyond tangible, and protect people's will to live on afterwards? Our investigation begins in the context of a small town in Thailand.

Thailand is an eclectic nation with much of its tradition intact that has met modernity in this fantastic fusion. Thailand is home of growing tourist industry based on its rich cultural heritage that has survived test of time. These traditions are passed through oral, written, and built narratives. One center pieces of

Wat Noi's founding story involves this temple. Wat Noi Temple is the town's economical, as well as people's emotional and spiritual backbone. Sadly however, it has fallen to constant flooding and subsequent disrepair.

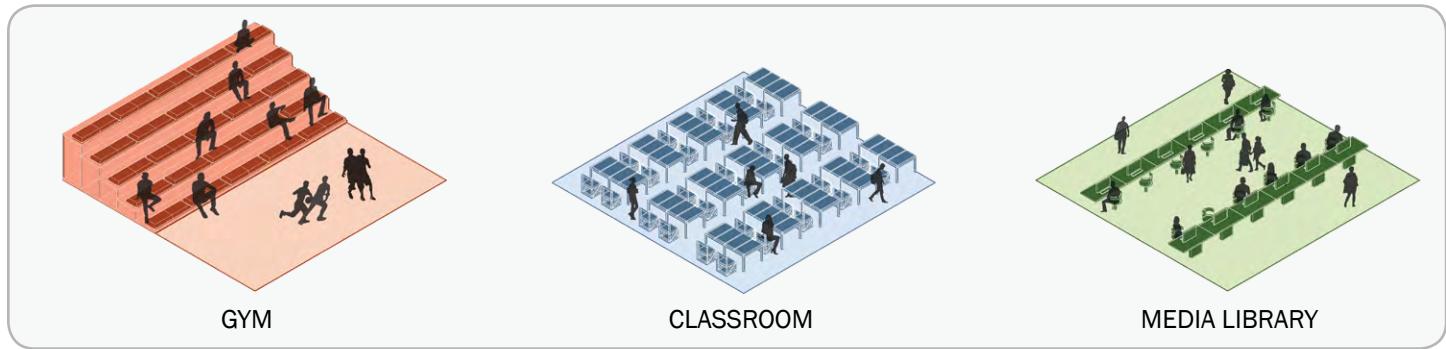
We believe that resilient architecture not only survive through elemental disasters and shelter local residents, but also provide salvation of people's spirit. In the context of Thailand, where natural disasters are closely related to superstition, our contextual response was to also protect this monument. Our proposal fulfills the basic requirement of shelter, and further provides the inner comfort.

Houses can be rebuilt after the storm, but the symbol of town's history cannot be recovered overnight.

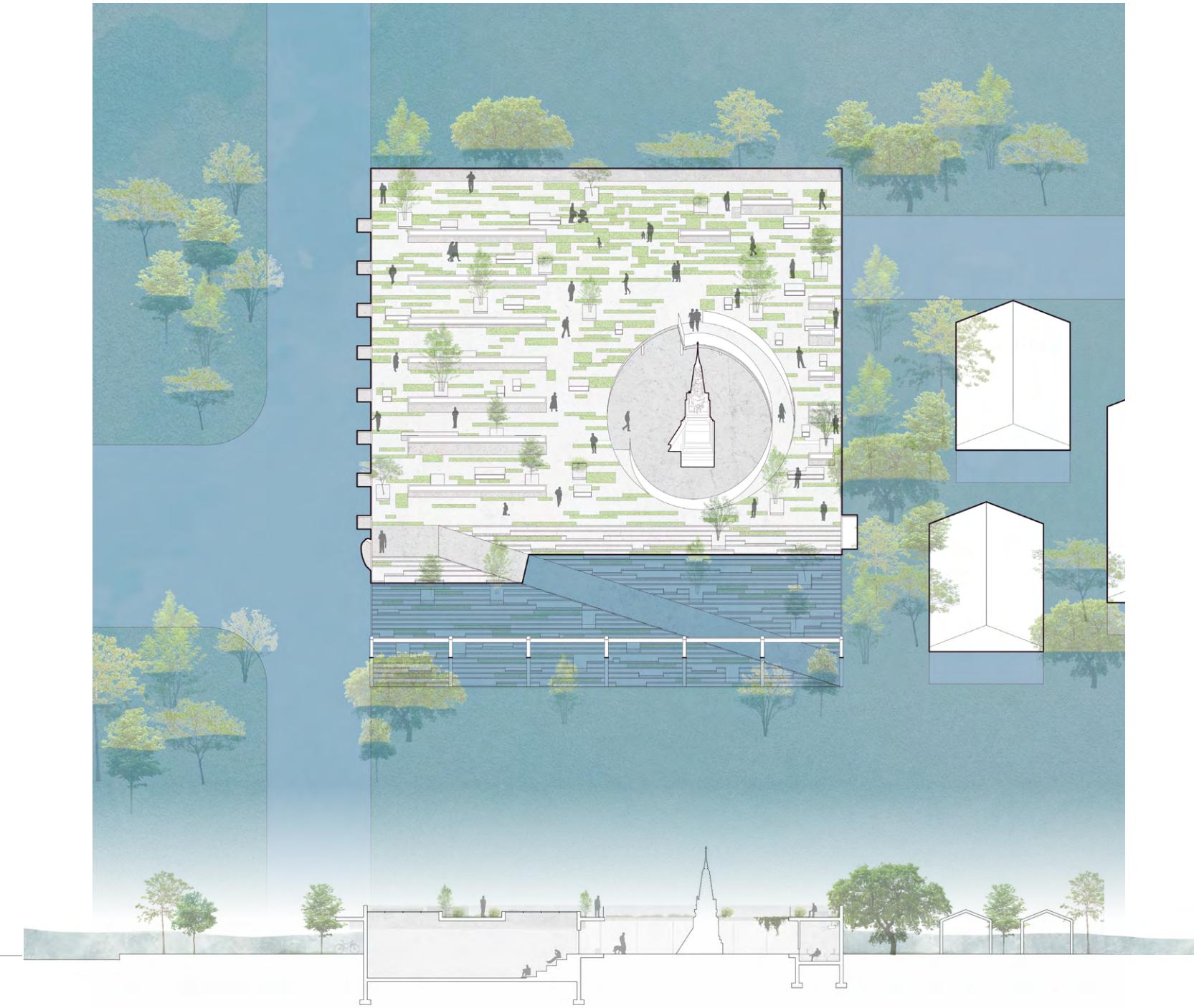
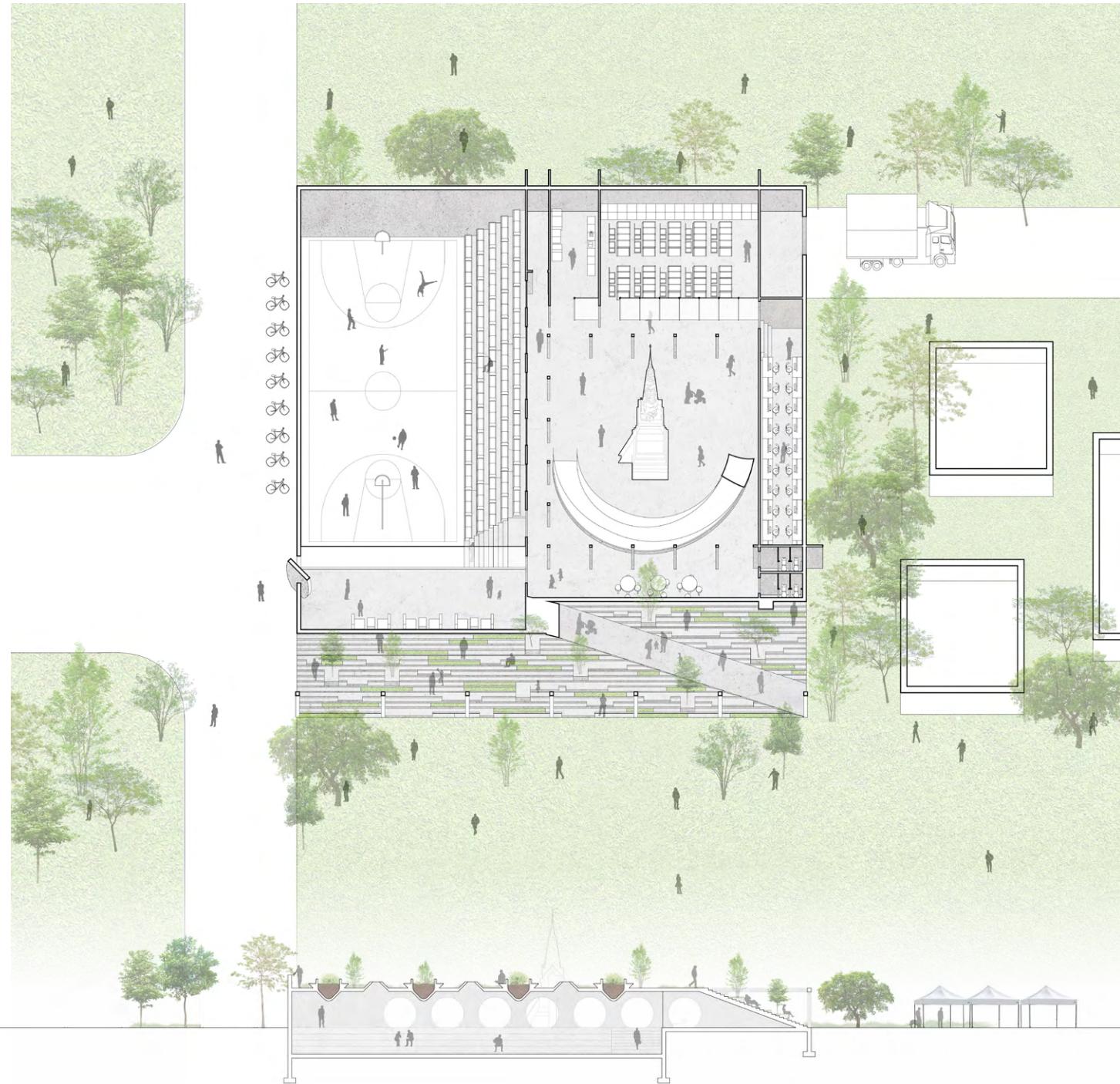
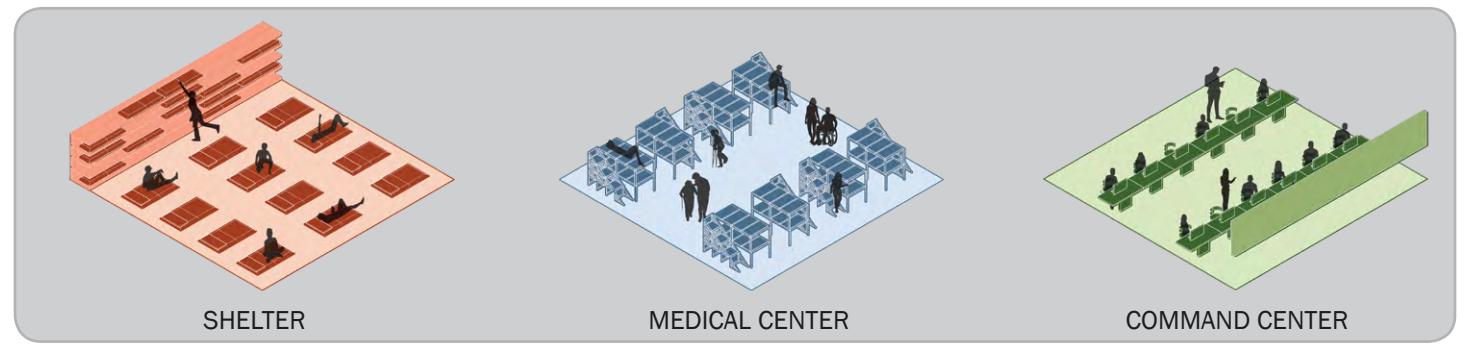
Year_ 2019
 Team_ Bennett Oh, Lyric Barnik
 Type_ Community Centre
 Site_ Nan, Thailand

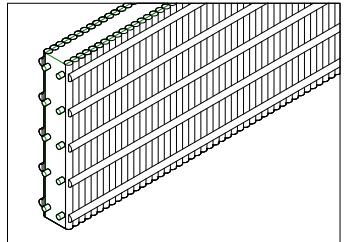
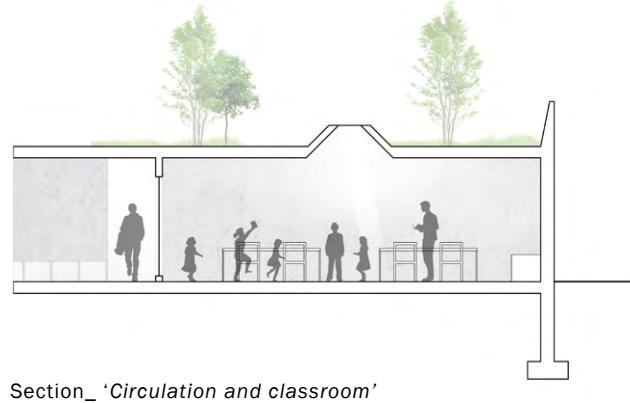
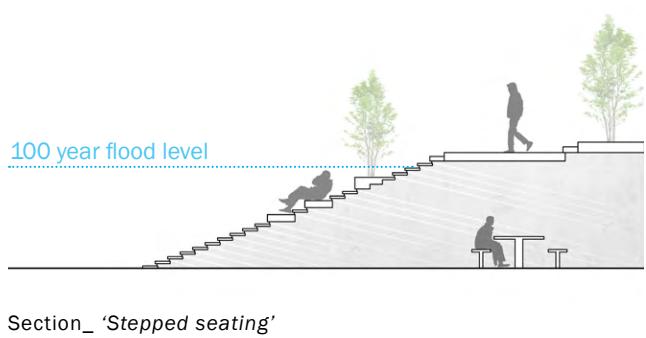
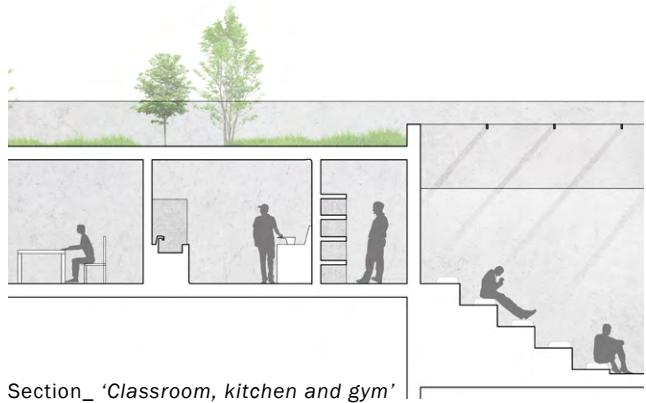


REGULAR OPERATION

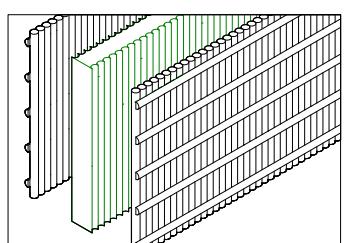


DISASTER SITUATION

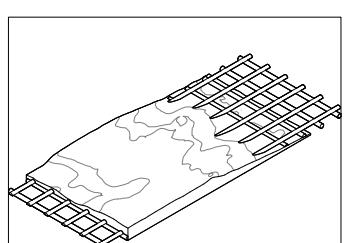




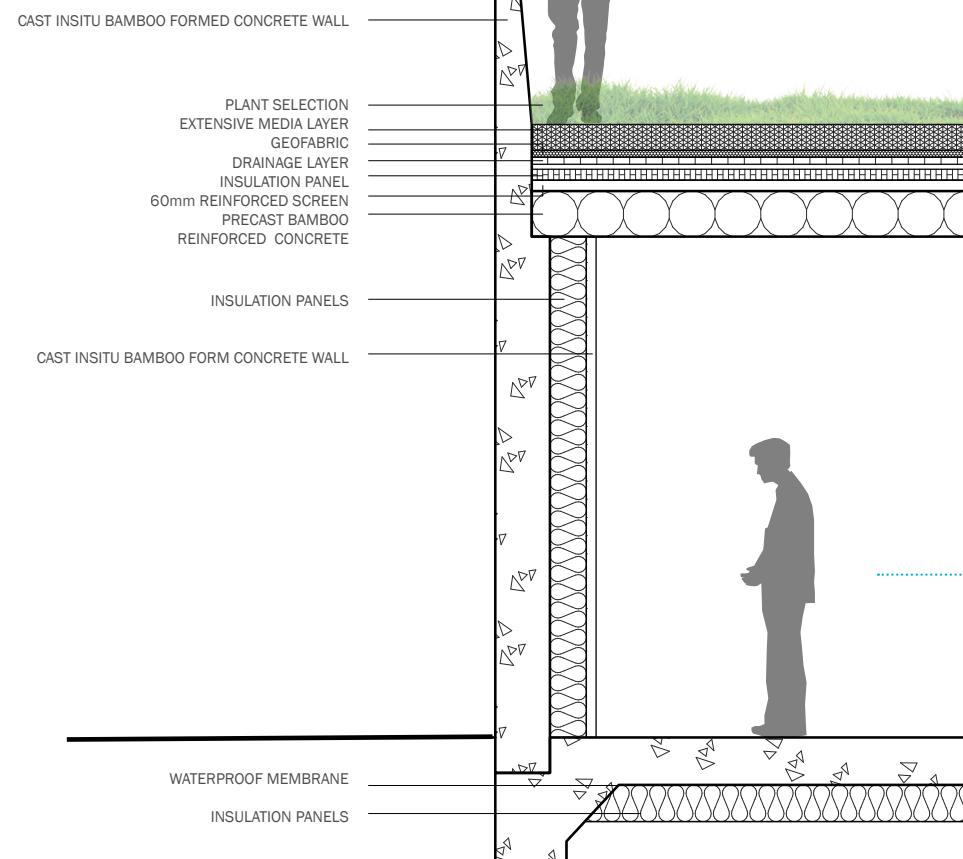
1_ Portland Oregon concrete mix is poured with bamboo reinforcement



2. Bamboo forms can be removed after 28 days of curing under ideal conditions.



3. Remaining bamboo forms can be recycled as floor slab reinforcing.



Top_

'Rendering of the exterior rooftop space.'

Bottom_

'Rendering of the interior under the stairwell/bench area.'



NEST

In order to save and develop more land, airports will be raised into skyscrapers with a significantly reduced building footprint by distributing different programs of the airport vertically. One such example would be the Billy Bishop airport in Toronto. With more recent development plans near the Harbourfront and extension of the highway, the Billy Bishop airport site will have a major potential to attract more people and become the city's top tourist site and potentially a new core that reshapes the city. Meanwhile, the increasing amount of workplaces in high-rise forms in the downtown core of the city would directly render into the design of the skyscraper. The form of the office space is shaped by the convenience and optimal accommodation for the workers by coming in different shapes and sizes.

The island is accessible through ferry, aircrafts and possibly pedestrian or vehicular bridges in the near future similar to more contemporary airports that are being built in islands such as the Incheon International

Airport and the Hong Kong International Airport. The varied ways to access the island allows people to enjoy a unique experience into and out of the island through the transportation of their choice. Already having been a popular tourist destination in Toronto, with new amenities and services from the development, Centre Island will play an even more important role in the core of Canada's largest city.

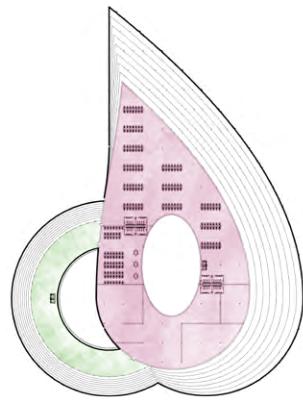
The project embraces change and diversity to represent one of the most multicultural communities in the world Toronto, which in turn visualizes how cities undergoing globalization will change in the distant future. It solves one of the biggest issues in major cities; traffic, by introducing the accessibility to a new transportation system: flying vehicles. Additionally, the NEST shifts the city's crowded centre into a wider circle allowing a less compact city core. The usage of timber as the main material for the building adds to the identity of Toronto, the largest supplier of wood and adds on to a sustainable future.

Year_ 2019
 Team_ Individual Work
 Type_ High-rise airport/ commercial
 Site_ Toronto, ON
 Recognition_ Top Shortlist for the 2019 Hybrid Futures: Work X Fly competition for reimagining skyscrapers for future Mega cities.

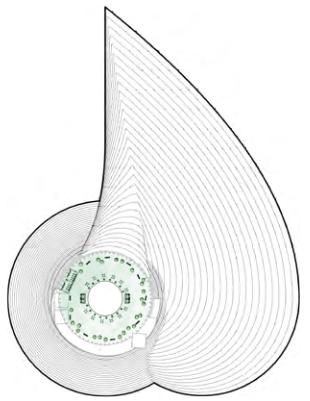


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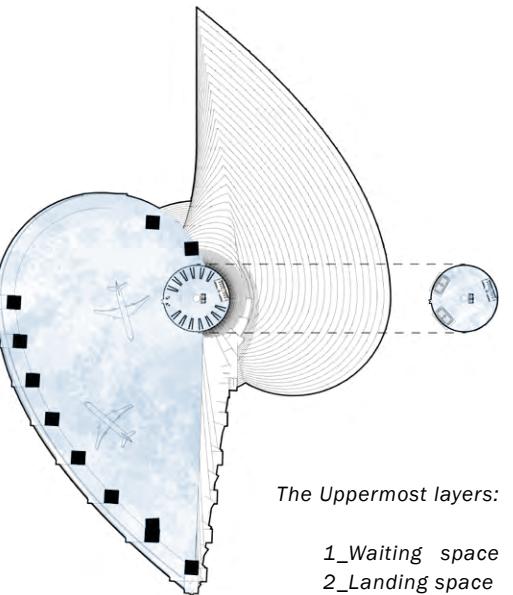
Plan_ 'Lower Levels'



Plan_ 'Centre Levels'



Plan_ 'Uppermost Levels'



The Bottom Layers of the building consist of:

- 1_ Large office spaces
- 2_ Private office spaces
- 3_ Stepped balcony
- 4_ Hydroponic garden

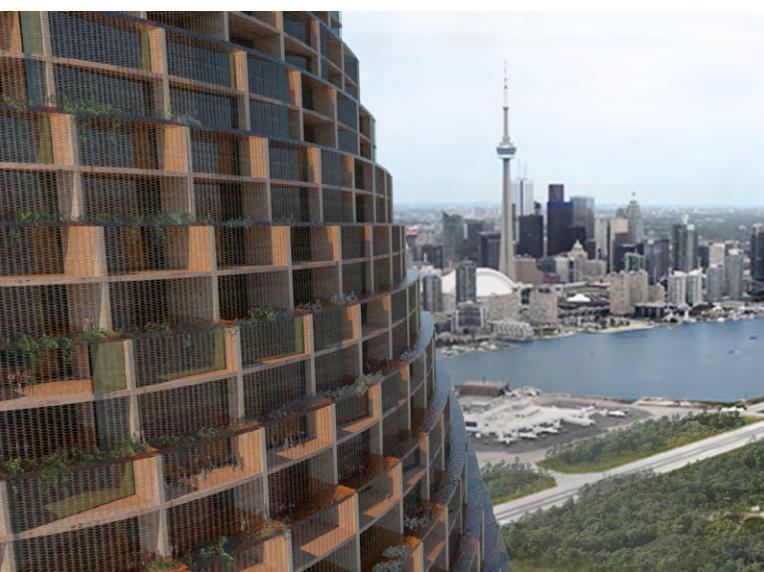
The Centre Levels of the building consist of:

- 1_ Public markets
- 2_ Main core
- 3_ Balcony

The Uppermost layers:

- 1_ Waiting space
- 2_ Landing space

Perspective_ 'Interior rendering of the office area'



Top_

'Aerial render of the office areas.'

Middle_

'Rendering of the top area of the building airport interior.'

Bottom_

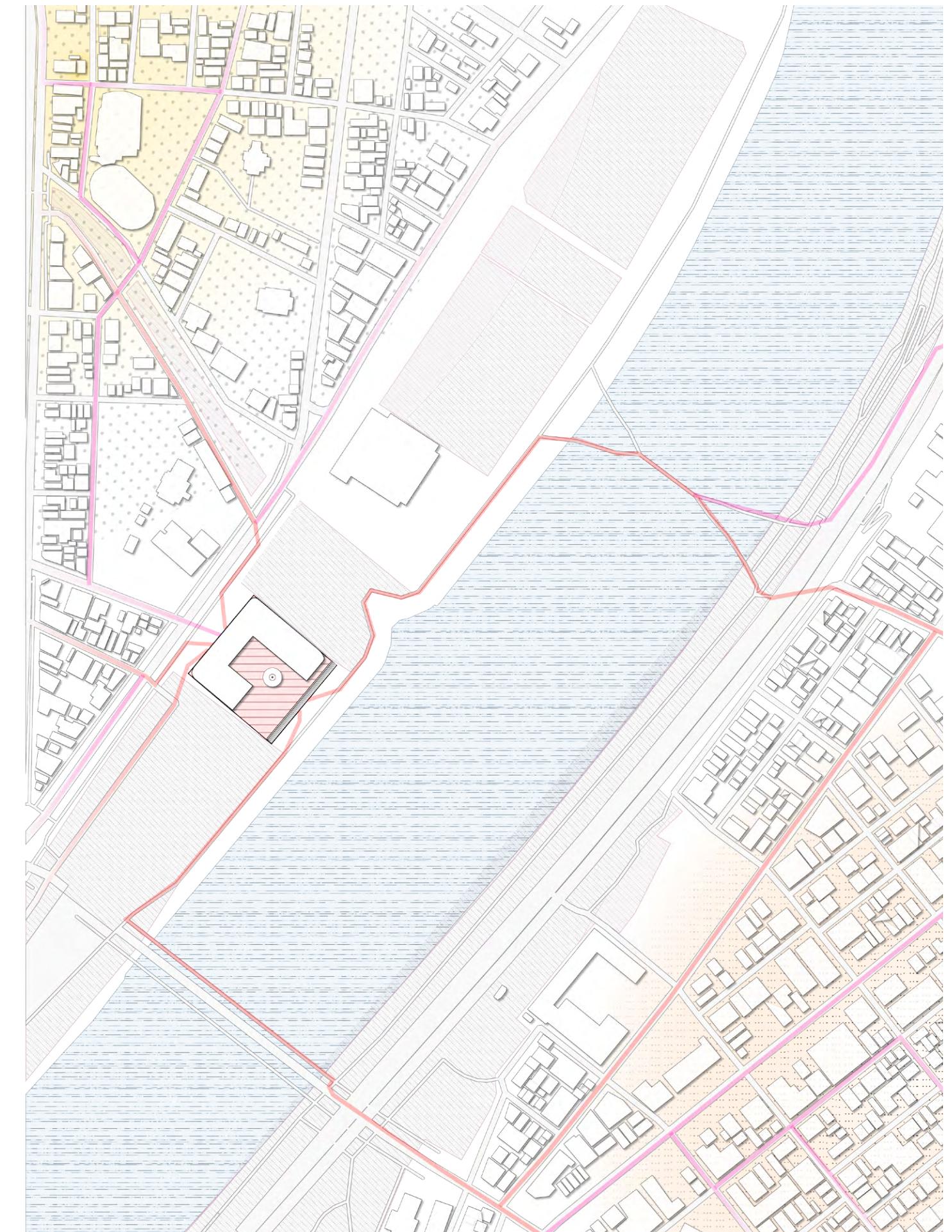
'Rendering of the core of the building; public market space between the airport and the office.'

BOUND TO THE SOUND MOUND

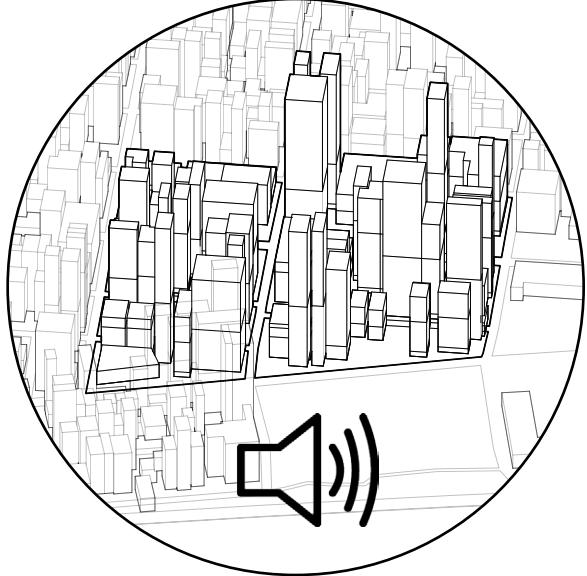
Despite high-density cities, there is a severe lack of interaction between people in high-density areas. To make matters worse, modern cities have become even busier and complicated places that encage thousands of people with forests of tall buildings. Studies show that the high stress levels of residents is due to lack of quiet green spaces as well as the difficulty of navigating within these environments. These problems become a fatal struggle for those who are blind. Navigating a complex city filled with constant noise pollution is indeed a strenuous task for blind people. This proposal guides both the blind and the non-blind into a secluded agora within the city that encourages interactions and sparks conversations. Using gradients of noise levels leading away from the city and green space, the agora reshapes the environment and experience. Welcome to the Mound:

It is another day where you walk on the streets of an urban, high-density city. Cars roar, construction screech, children scream, phones yell and sirens shriek. Surrounding high-rise buildings create walls all around the city trapping you in a forest labyrinth. In this chaos, you concentrate and listen for a stream that will lead you away from this suffocating city. Along a long smooth path you hear the humming of an underground river: the sewers. Amongst the chaotic urban noise pollution, birds start to chirp and trees gently rustle, shop owners sing and couples fondle. When you get tired the humming from the river, a manhole, calls you to hum along and rest your legs. You begin to walk along this path again with other merry people, and notice silky grass gently stroking the side of your leg, warning you about the road that is so close.

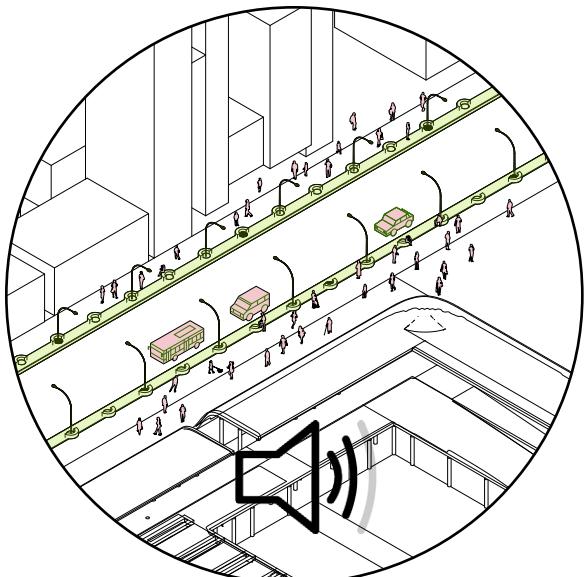
Year_ 2019
 Team_ Annie W.
 Type_ Institutional
 Site_ Asakusa, Japan



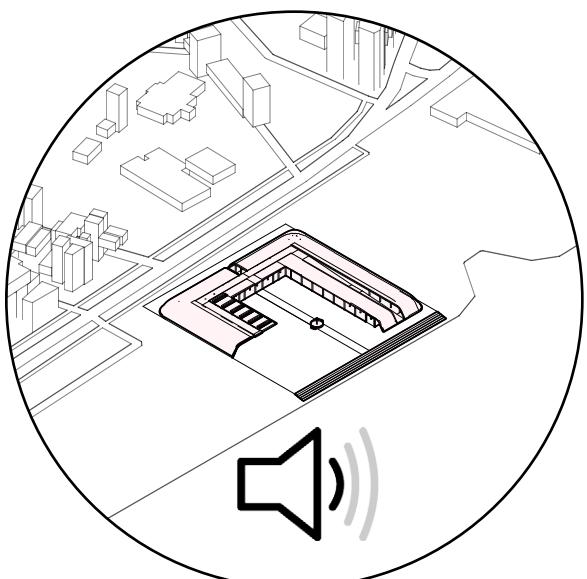
Diagrams_ 'The Loud City'



Diagram_ 'The Interactive Path'



Diagram_ 'The Quiet Mound'



Perspective_ 'The Mound'



Perspective_ 'The Market'

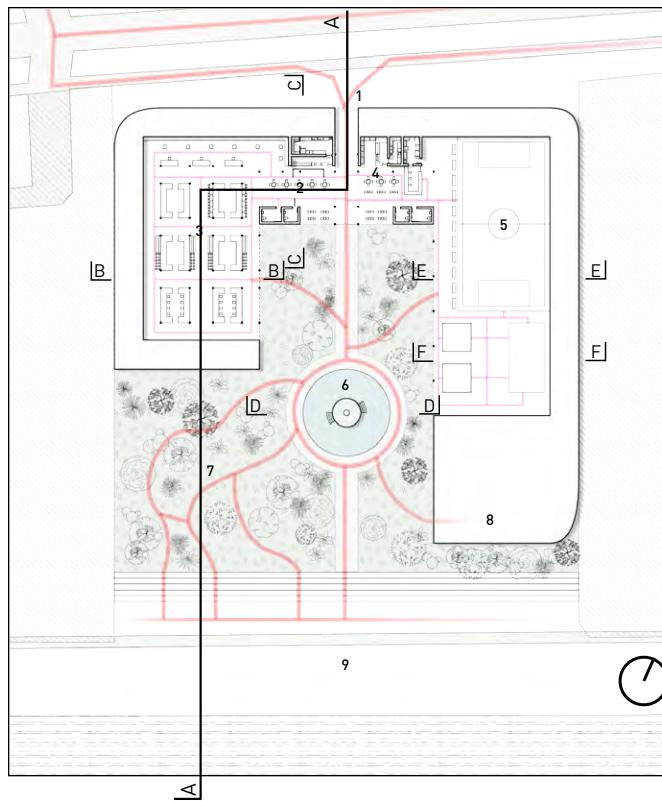


Perspective_ 'The Park'



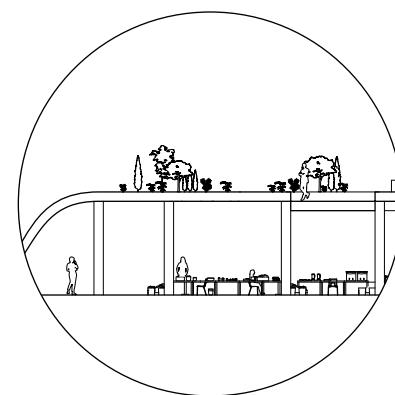
'Perspective_ The Landscape'



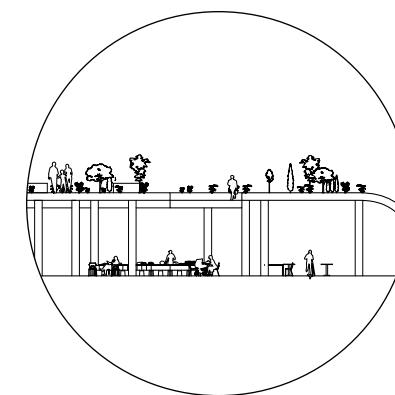


Plan_ 'Ground Floor'

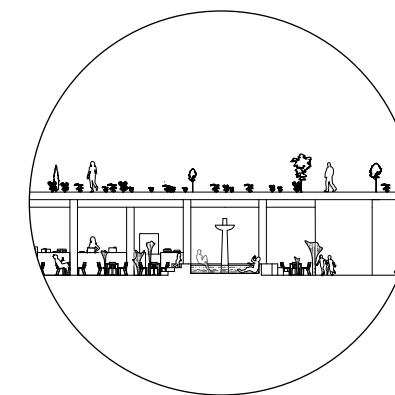
- 1_ 'Entrance'
- 2_ 'Cafe'
- 3_ 'Market'
- 4_ 'Bakery'
- 5_ 'Sports Centre'
- 6_ 'Fountain / Water Park'
- 7_ 'Garden'
- 8_ 'Waterfront Steps'



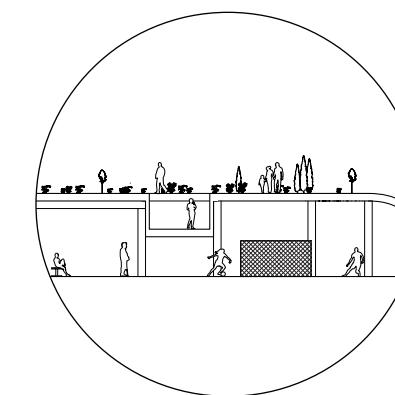
Section BB_ 'The Market'



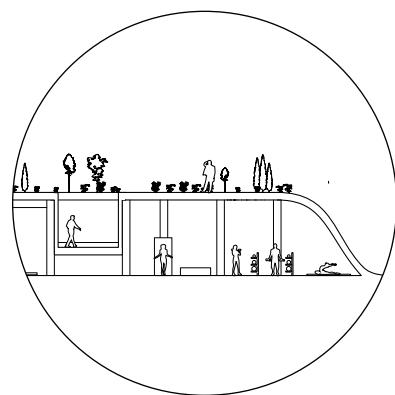
Section CC_ 'The Cafe'



Section DD_ 'The Fountain'

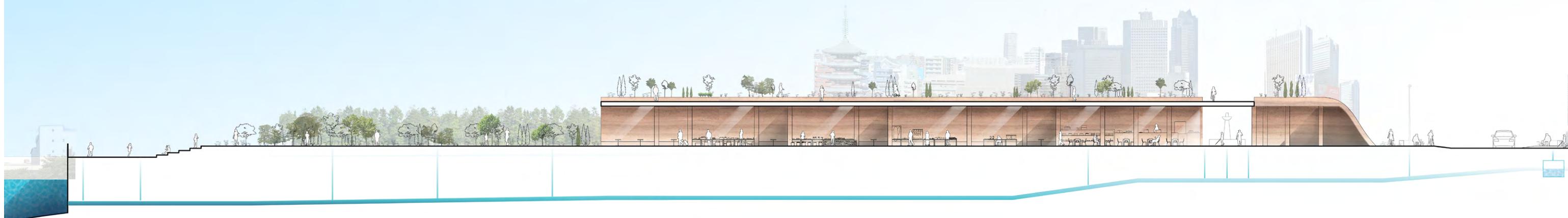


Section EE_ 'The Sports Centre'



Section FF_ 'The Park'

At the end of the pathway lies a grass mound, defending a hidden realm. As you enter, the warm smell of coffee and baked goods greet you while the surrounding soundscape is completely altered from the city. The marketplace blooms with intimate interactions between merchants and customers. Meanwhile the sports centre composes music using the beats from rhythmic body movements. A courtyard opens its wide arms and showers you with warm sunlight. There stands a monument spewing water towards the sky, conversing with the Tokyo Skytree across the water. Alas, you finally arrive to a silent garden facing the Sumida River. A quiet place in a loud, chaotic city; now you are bound to the sound mound.



Section AA_ 'Durational Section from waterfront to roadside'

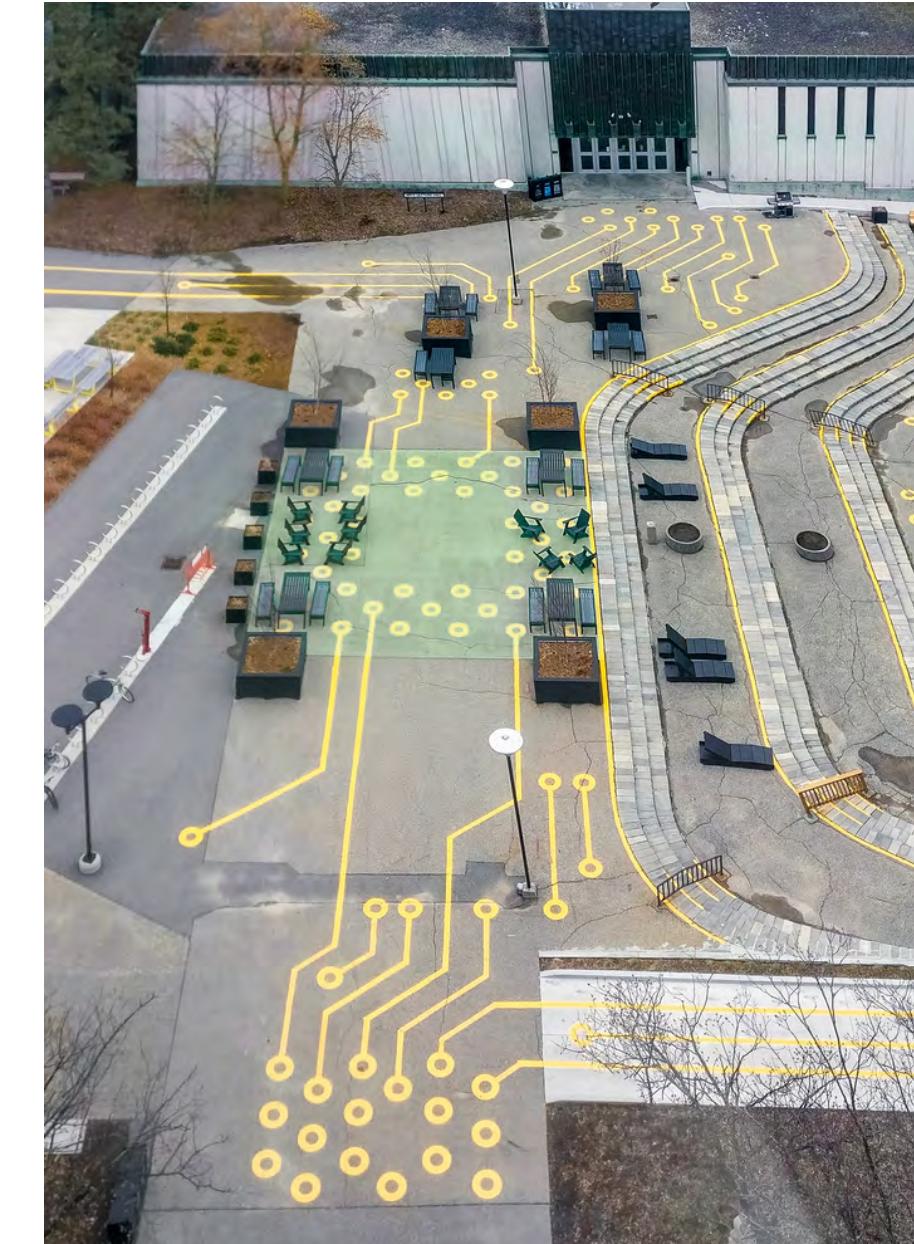
OTHER WORKS

DAVID

_professional works

#46

PROFESSIONAL



Year_ 2019
Firm_ Baldassarra Architects
Type_ Office/Warehouse
Site_ Ontario

other works_ professional

Project_ Waterloo Arts Quad Outdoor Spaces
Year_ 2017
Team_ Bennett O., Karl E., Sparsh G., Nathanael S., Ethan S.
Type_ Landscape
Recognition_ Winner + Built, Featured on ArchDaily

other works_ professional

thank you!

Let's Talk Soon:

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