



DLA

a showcase of graduating students' works

# INTERVIEW ENTITION

End of Year Show 2021  
[www.sp.edu.sg/abe/life-at-abe/end-of-year-show](http://www.sp.edu.sg/abe/life-at-abe/end-of-year-show)

## **The School of Architecture and The Built Environment (ABE)**

is Singapore's first and most established school in the training of professionals in the built environment. We are also the only school currently offering a comprehensive range of built environment programmes.

Our curriculum emphasises on creativity-driven and hands-on approach allowing students to build strong foundation in transforming spaces through enhancing users' experience using creative solutions.

### **FOREWORD**

Building Singapore is a never-ending task. As our economy continues to transform and lifestyles evolve, the construction industry continues to design for quality work, live and play environment for residents.

ABE's vision is to create a sustainable future envisioning concepts and designs for a built environment that is conducive for quality live, work and play.

Hence we train our students to be creative and competent in the areas of on digital, social and environmental sustainability.

### **END-OF-YEAR SHOW 2021**

EOYS2021 is a showcase of built environment projects from the Diploma in Architecture (DARCH), Diploma in Interior Design (DID) and Diploma in Landscape Architecture (DLA). It is an attestation to the skills and knowledge of our graduating students.

The show features works spanning phenomenology, sociology, user experience, sustainability and more. These are pertinent interventions in this dynamic sociopolitical climate.

Join us as we present the future leaders of the construction industry and to celebrate this milestone in our graduand's academic journey.

"To see is to be on guard,  
to wait for what emerges from the background,  
without any name, without any particular interest:  
what was silent will speak,  
what is closed will open  
and will take on a voice."

- Paul Virilio

#### CONGRATULATORY MESSAGE

The prophetic dromologist, the late Paul Virilio, in many of his writings, presciently warned of an upcoming event, one that should concern us: the dissolution of the city. Matter and experience lost to transparency and speed. Virilio to be sure was writing in the early 80s, with the advent of cable TV and the first shoots of the personal computers. He was also then witnessing, the "electrification" of the city, where physical gates were being replaced by camera eyes. Windows, gates and doors overcome by monitor screens. It was the time, where recording and playback of images was becoming portable. The nature and definition of space was starting to definitely change. The city was also become more transparent, it was losing its friction, with movement accelerated by highways and mass rapid railway.

The last year, in a world ground to a halt by the ancient-ness of disease; yet seamlessly moving forward by collapsing space and time with digital technology, one does wonder [and we wonder with Virilio], what then is the future of urban space, the architectural material and the domesticity of place, now that all of life can seemingly conducted via a screen.

And thus so too is this year's EOYS: digitalized, framed in windows, remote from touch. Yet it is a strenuous attempt to capture the physical - all of the three years of imagining and materializing; of students, tutors and support staff. I congratulate all of you for graduating during a challenging and unforgettable moment in history. As with Virilio, look what is coming forward with a critical eye, and make sense of it, instead of just accepting it as reality.

**Dr. Faris Akbar Hajamaideen**

Director

School of Architecture and the Built Environment



Engagement in focus group learning of similar interest area/topic allows Year 3 student to enhance their collaborative learning habit. Students gain content knowledge from peer sharing sessions and also helps to develop their techniques of team work-learning.



Year 3 students are encouraged to take charge of their learning progress which see them contributing in aspects of project scheduling, deliverables & grading criteria. This empowerment motivates students to take more ownership of their Final Year Project and self-directed learning.



Integrated project review and feedback sessions allow Year 3 students to develop their cognitive skills. Application of peer & self-review in various stage of their learning enhance evaluative and communication skills.



Design presentation and critique session provides an opportunity for Year 3 students to present their Final Year Project and articulate their design intent. Peer to peer review conducted during the critique helps to build their professionalism and develop critical thinking & communication skills.

# DLA

## DIPLOMA IN LANDSCAPE ARCHITECTURE (DLA)

Responding to the challenges arising from digital revolution, rapid urbanization and climate change, the Built Environment Industry Transformation Roadmap hopes to transform itself in three succinct ways to 'Build Smart, Efficiently & Green'. DLA strives to align with this roadmap and to identify with the Landscape Sector Transformation Plan, gearing students towards design for construction and maintenance of the built environment.

The DLA curriculum also incorporates skills and competencies mapped to the skills frameworks for job roles and career paths in Design and Landscape sectors. This prepares students with relevant computer skills for design and documentation to contribute to a profession that creates spaces for people to be close to nature with sustainability in mind.

Throughout the teaching and learning process, DLA connects to design guidelines from public policies such as BCA's Universal Design, NParks' 'City in Nature', PUB's ABC Waters and URA's LUSH, just to name a few. In the three-year course, students are exposed to projects of different scales giving them better grasps of diverse opportunities in the landscape architecture profession and the necessary application of public policies to help students find focus in their design proposals.

### 2020 DLA FINAL YEAR PROJECT - CONNECTIONS

Design aims to rejuvenate the area from Kranji MRT to Masiling MRT by connecting new & existing developments along the track (& beyond) with public space network to strengthen community bonding.

#### PROJECT DESCRIPTION

DLA Year 3 student designers created four interesting Master Landscape proposals consisting of a 24/7 continuous Public Walkway Network (PWN) between both MRTs, places of interest and parks with designated pedestrian path, cycling path for cyclists cum personal mobility device users. The proposals also integrates Green, Blue & Circulation networks that connects and bond the community.

Ideas includes the introduction of sustainable tram system that integrates the neighbourhood with the aim to enhance the living environment, connectivity and the sustainability of the town. An elevated pedestrian walkway that offers a seamless connectivity throughout the site with a view to awe. Multiple nature-themed trail networks that transform the area into an educational hub for biodiversity and coastal landscape, celebrating the character of this northern town of Singapore.

As part of the project, each DLA designer took on the challenge to focus on a landscape area of their choice. They embarked on a self-directed learning journey to refine the idea with enhanced design objective, zone character and landscape feature development. Green Mark and Universal Design considerations are also integrated to enhance the design's buildability. Project also entails the exploration and production of technical drawings and documentation to create a holistic learning experience for the designers to be work-ready.



A large, stylized topographic map with contour lines in shades of gray, serving as the background for the diploma cover.

## DIPLOMA IN LANDSCAPE ARCHITECTURE 2021

SINGAPORE POLYTECHNIC



## DLA 2021 CONNECTIONS

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BENJAMIN  
TAN



CAMILLE  
CHEONG



CHIN MIN  
HWEI



CHONG WEI  
WEN



MOHAMAD  
HARIZ



MUHAMMAD  
HAMIZAN



MUHAMMAD  
NIHAL



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SALIM



NG JUN JIE



FAIZAH BTE  
HALIM



HARI  
VIKNESH



HO KAI WEN



JEMIMA  
ADELE



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VALERIE TAN



JOSEPHINE  
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JOYCE TEO



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YEO HUI HUI



YEO YEE  
XUAN



YIP WEI WEN



ZHENG KANG

CHAIRPERSON KWAN SHU JUN JOSEPHINE

EDITORS CAMILLE CHEONG  
NUR AAINA BINTE HISHAM

CREATIVE DIRECTOR JOYCE TEO RUI YUN

AUNG MOE OO



'NOTHING WORTH HAVING COMES EASY'

CONNECTIONS  
A JOURNEY THROUGH DEFINING TIMES

The designed Memorial Park embodies the awe, respect and gratitude felt for its most essential Founding Father. It represents bold & imaginative new type of Memorial. The design has great potential to provide multi-layered experiences for all visitors in its blending of the gardens & external spaces.

At the same time, it simultaneously honours the past, education the present and future. With the aim of ensuring the future & current generations to maintain Peace and not to take granted for it.



Tranquil Garden



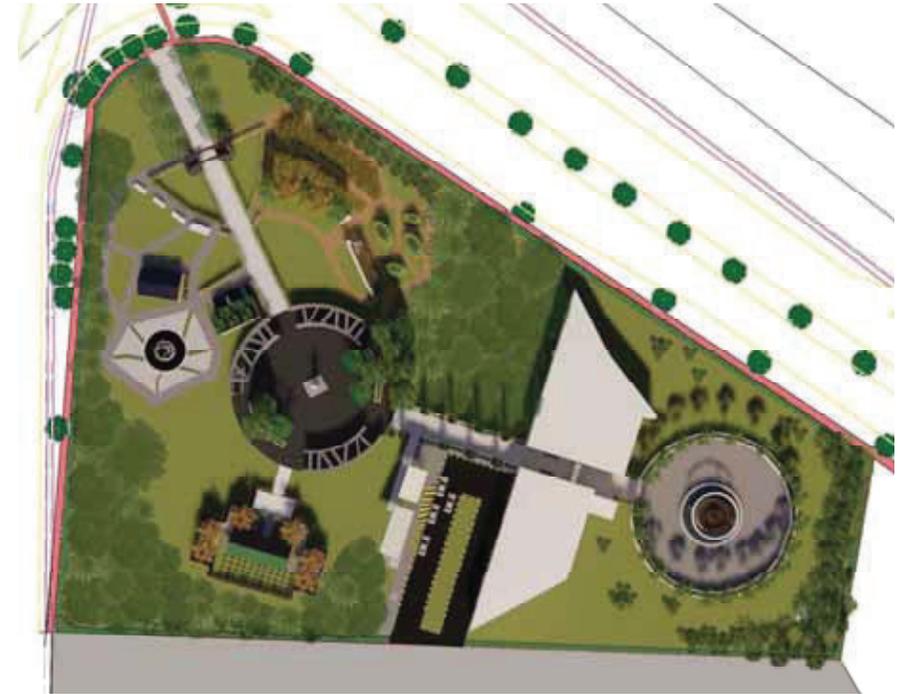
Memorial Garden



Sensory Garden



Multi-Purpose Plaza / Outdoor Gallery



Connection : A Journey Through Defining Times



**Design Aim :** To remind the visitors that we shouldn't take Peace for granted

**Design Objective**

**1) Educational**

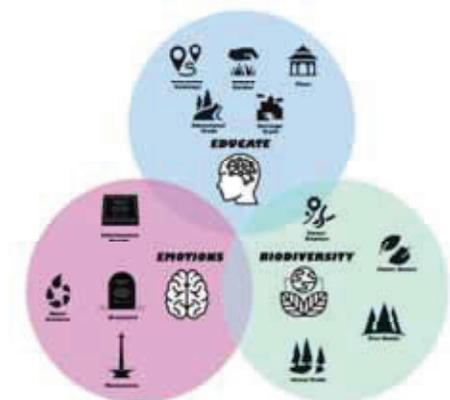
To Educate the public that history ought not to repeat itself

**2) Emotional Approach**

To evoke a keen sense of Gratitude

**3) Biodiversity**

To enrich the Biodiversity

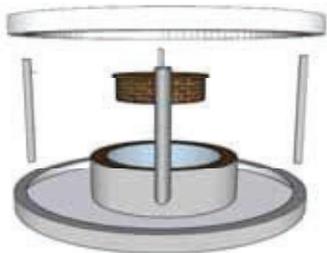


## Feature Space



### THE FIRST VICTORIAL FLAME

Playing with the vastness of the space, the users are provided with a place to mourn but at the same time they are able to educate themselves about the history about the first Victory that Singapore had against the 13.000 Japanese soldiers . Thus, this monument (feature Element) is a water feature surrounding the Fire in the middle . The fire represent the fighting spirit that our forefather had to defend their beloved country while the water being the biggest counter element is represented for the INVADING JAPANESE SOLDIERS.



Exploded View of The Feature Element



The Entrance View of Memorial Garden



## Other Spaces

### Sensory Garden



### Tranquil Garden



### Multi-Purpose Plaza/Outdoor Gallery



### Community Garden



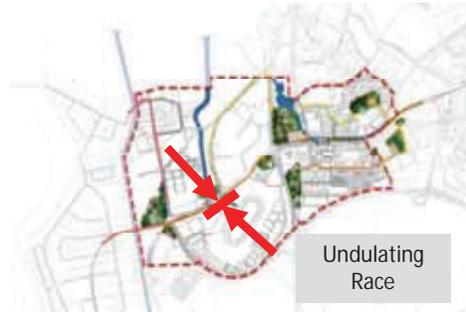
TAN PEI SHENG  
BENJAMIN



'YOU CAN'T GO BACK AND CHANGE THE BEGINNING. BUT YOU CAN START WHERE YOU ARE AND CHANGE THE ENDING'

CONNECTIONS  
UNDULATING RACE

Undulating race provides users with an area for them to interact, learn and play. It allows multiple uses and promotes social interaction also strengthening the identity of the area.



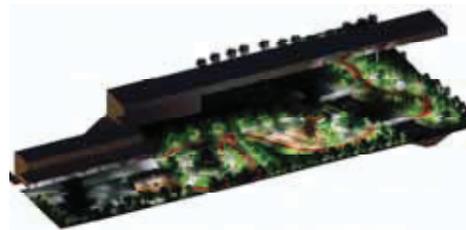
Undulating Race is located between Kranji MRT and Turf Club. As an act of enhancing spaces between Kranji MRT and Marsiling MRT, Undulating race is designed fit the criteria of the design. As Undulating Race is along Turf Club, I have decided to use Horses and racing as my design intentions.

Design Objective  
To create interactive spaces to promote community bonding.

Design Strategies  
Exhibition area, Nature play, Stable and Therapeutic Garden



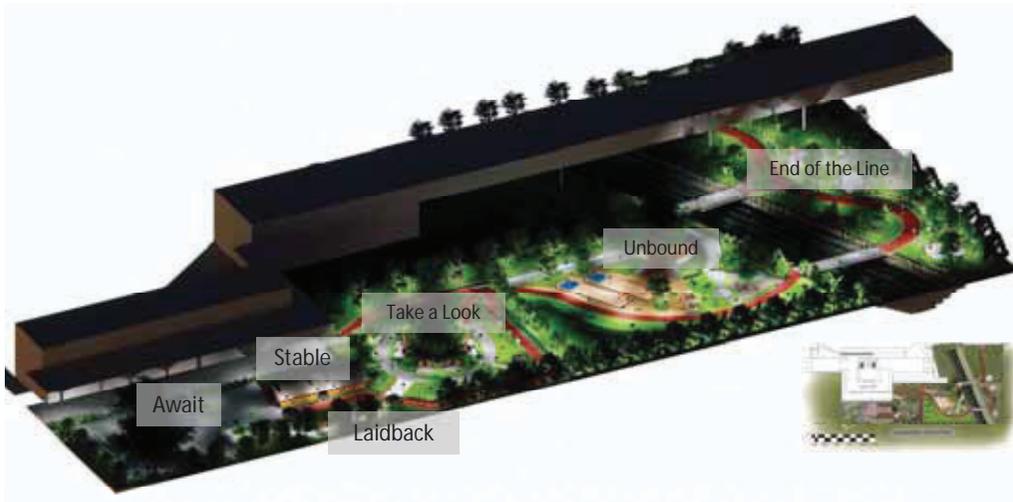
Undulating race features five spaces, with each space providing different features and experiences. Such as play area, exhibition space, shelters and a therapeutic garden.



Bird's eye view of Take a Look, shows the tall palms as a feature to attract users into the space to learn about the horse in the spaces through the informative boards. With the red path symbolizing a racetrack, users can navigate through the site easily.

Viewpoint from Unbound overseeing the play areas and mounds, providing a carefree experience which allows users to run around playing with each other.





Entrance of Undulating Race, with the floor resembling the race flag marking the start of the journey or the end.

Seating area in Await for users to wait for their friends or just a space to hold little events/celebration.

Red path leading towards other spaces within Undulating Race accompanied with directional planting along the path.

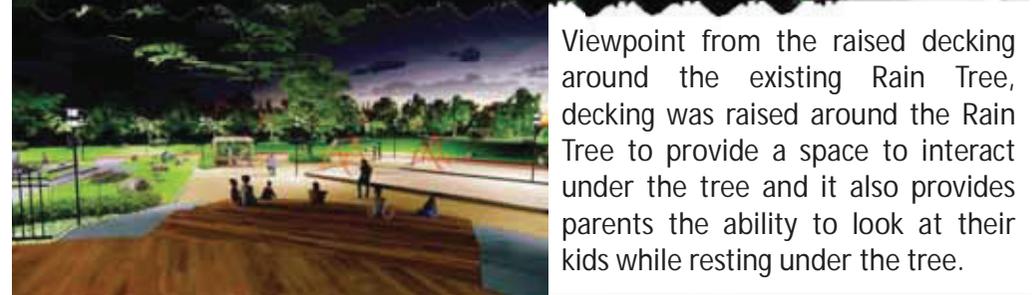
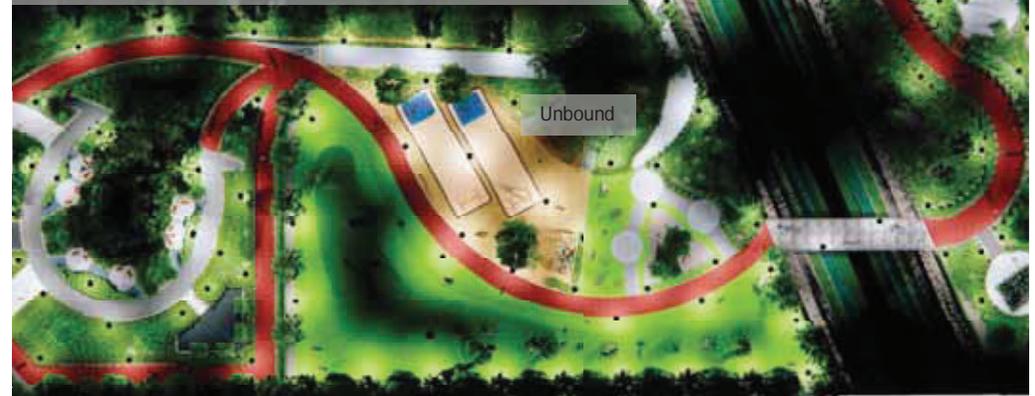


Trellis within Take a Look providing shelter and rest areas to allow users to take a quick break or just enjoy the scenery.

Secondary circulation towards Take a Look to the informative boards, teaching users about horses and it's history with humans and their characteristics.

Pergola within End of the Line with lounging seats to promote relaxation within the space creating a soothing and comfortable ambience.

Plan view of Unbound showing how it looks at night with the red path being brightly lit along with the play areas.



Viewpoint from the raised decking around the existing Rain Tree, decking was raised around the Rain Tree to provide a space to interact under the tree and it also provides parents the ability to look at their kids while resting under the tree.

One of the gentle mounds in Unbound providing a free area for users to run about and experience what's like for horses running free among the plains.



Nature play scape in Unbound featuring naturalistic elements such as rocks, logs and plants to allow users to interact however they want to, play by instinct.

CAMILLE CHEONG

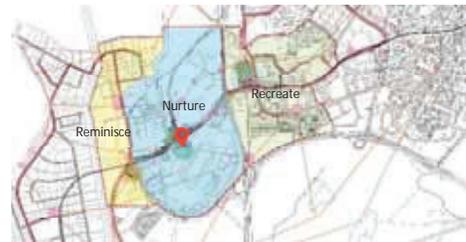


**'PART OF THE JOURNEY IS THE END'**

CONNECTIONS  
FOAL-CAL LOCAL

A rebirth of turf for community  
A community plaza located in the industrial area;  
Aims to provide a place of destination that attracts people from different parts of Singapore.

Each of the space in the park evokes a unique and different feeling relating to the nearby Turf Club users and visitors.  
VIBRANT. ACTIVE. RELAX.



Foal-cal Local is located in the nurture zone, where the overall design helps to strengthen the character of - GREEN, with dense and vibrant planting; BUSTLING, with proposed activity nodes ANTICIPATION, with the programs and arriving nodes

**OBJECTIVES**

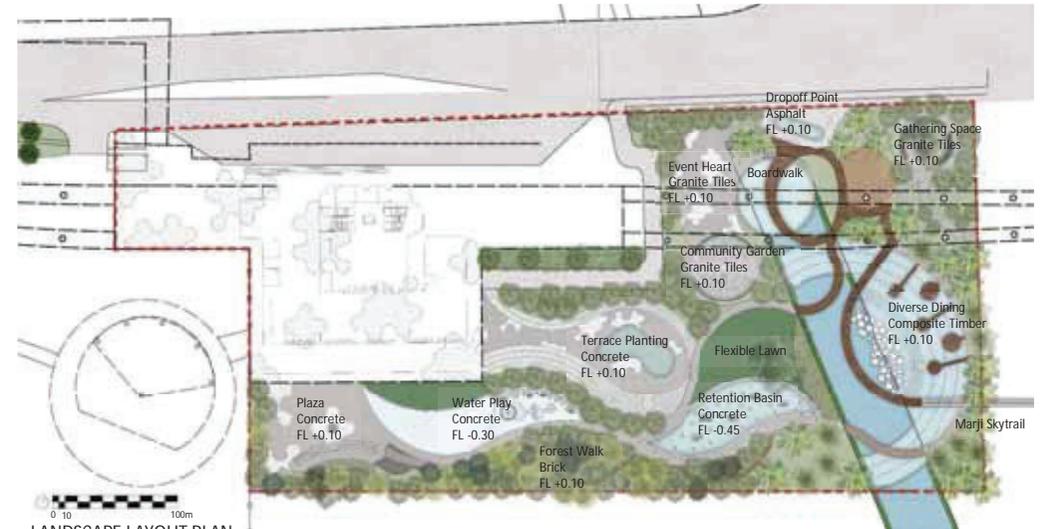
**To create a vibrant and fun landscape to enhance the surrounding for the community to enjoy**

**STRATEGIES**

Vibrant and colourful landscape to brightens the surrounding in front of Kranji MRT and Turf Club

Busy and bustling environment that livens up the atmosphere

Enclosed and lush planting that attracts biodiversity, allowing people to be immersed among the planting and waterfront



LANDSCAPE LAYOUT PLAN

Foal /fəʊl/ a young horse or related animal

FOAL-CAL LOCAL means a new beginning for this empty turf to be filled with liveliness and aims to attract different age group and the diverse community



**PLAZA**

The plaza welcomes visitors with its porous and open walkway, allowing large group of people to enter without feeling cluttered. The proposed Marji Skytrail end here, in the plaza. This proposed PCN provides a seamless connection between Marsling and Kranji. Cyclist coming from the PCN area able to park their bikes at the nearby sheltered bike stand before commuting to their next destination.

**EVENT HEART**

Located at the center of the site, event heart allows various programs such as bazaar, food truck market and even activities held by the neighboring Turf Club and residents. This space allows great bonding for people, family and the community. By allowing food truck to enter, it helps to boost the possibility for the number of events that can happen.



**EXPERIENCES**  
for the eyes, body and soul



DROP OFF POINT

Visitors are welcomed with vibrant and colour planting are used to welcome visitors, while the 4.5m water feature dual purpose of water harvesting as well as shelter for people entering, creating a focal point for people to identify this space from far. As they move in closer, they are surrounded by semi-enclosed planting, allowing them to get a sneak peak into the surrounding spaces

FOREST WALK

2-people pathway, provides an optimal experience in this forest walk. The dense planting acts as a natural shelter on sunny days. This secondary access allows people to be away from the busy activity happening in the main spaces



COMMUNITY GARDEN

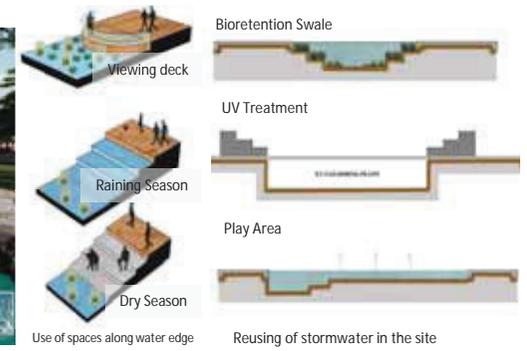
The providence of wheelchair friendly planter boxes allows diverse community to grow their own crops and share with one another to create a sense of community bonding among one another

**WATER EDGE ACTIVITIES**



BIOPOND

Another water harvesting feature, the bio pond - allows rainwater to be stored and then recycled to be used in other parts of the site. The bio pond is designed to allow people to get into the water edge when there's little to no heavy rain. The steps act as a secondary access towards the flexible lawn space where outdoor activities such as picnic, yoga or movie can happen



DIVERSE DINING

The alfresco dining is assessable via the skytrail or the boardwalk. The existing canal is extended to allow more storm water to be cleansed before releasing back into the canal. The concrete steps is an alternative footpath that spans between two ends of the boardwalk for adventurous users to get across the waterway.



By bringing people through the extended foot path leading to the individual dining pods, it allows people to anticipate what they are going to experience with 2 different seating are introduced in these dining pods to curate the same experience even for wheelchair users.



SECTION ACROSS DIVERSE DINING IN RELATION TO SKYTRAIL

CHIN MIN HUEI



'YOU'LL NEVER KNOW WHAT YOU CAN DO UNTIL YOU TRY'

CONNECTIONS  
THE PASSAGE OF TIME

aims to teach students and visitors about the history of Singapore, as well as to let them interact with the nature that surround them. Ultimately, it aims for people to be appreciative of the peace that we have now, through what others had to sacrifice in the past.



## Design Aim

To create an interactive space where users can learn and appreciate the history and nature.

## Design Objectives

- To educate students about the history of Singapore.
- To promote interaction between the nature and people.
- To create habitats to attract biodiversity and enhance the ecosystem.

## Design Strategies

- Walk of Remembrance
- Colonial Garden
- Learning Forest
- Place of Reverence

## Space Character



## Walk of Remembrance

Features a statue story that takes users through a journey of the Battle of Singapore, starting from when the Japanese first invaded Singapore through the Straits of Johor. Before entering cyclists, will need to park their bicycles outside as the site does not allow for cycling as a sign of respect for the fallen. The entrance gateway signifies the start of the statue story, and the circulation is made zig zag so that with every turn, users will be able to see every part of the story. Rest stops will be provided along the path for users to catch a break.



## Statue Story

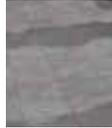
Battle of Singapore: Japanese invasion into Singapore through the Straits of Johor. Hedges to block view behind for secrecy and vibrant colour planting for welcoming effect.



Stone  
Brick  
Wall



Granite  
Fountain



Stone  
Tiles

### Peace Statue Fountain

Taking the form and shape of white doves, to remind us of the peace we should not take for granted.



*Bucida  
molineti*



*Schefflera  
arboricola*



Concrete  
Bench



### Reflective Pool Garden

A quiet space for users to reflect and calm themselves before heading towards Kranji War Memorial.



*Syzygium  
aromaticum*



*Piper  
nigrum*



Stone  
Boulders

### Spice Garden

Located in the Colonial Garden, the Spice Garden features economic crops of Singapore such as the various spices which formed the foundation of Singapore's spice plantations.



*Nymphaea  
cultivar*



*Typha  
angustifolia*



Timber  
Boardwalk



### Biopond

Located in the Learning Forest, the Biopond features a timber boardwalk to let users experience the nature that surrounds them and be closer to water whilst providing habitats for biodiversity.



*Gardenia  
jasminoides*



Stone  
Fountain



Stone  
Brick  
Wall

### Colonial Garden

Following a white colour theme to reflect colonial architecture with traditional building materials used.



*Arenga  
westerhoutii*



*Musa  
sp.*



Stepping  
Stones

### Forest Trail

Located in the Learning Forest, the Forest Trail has stepping stones to create an adventurous feeling for visitors who want to venture into the wild with some accent plants such as ixora to create interest.

CHONG WEI WEN



Open Market



Wellness Garden



Terrace garden



Whirpled Waters

'EVERY PLANT HAS ITS FITNESS AND MUST BE PLACED IN ITS PROPER SURROUNDINGS SO AS TO BRING OUT ITS FULL BEAUTY. THEREIN LIES THE ART OF LANDSCAPING' – JENS JENSEN

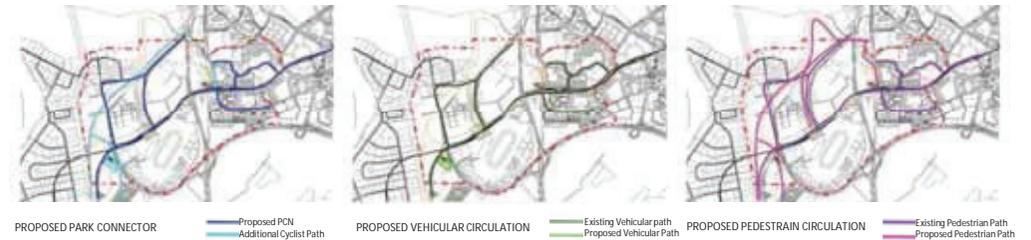
CONNECTIONS  
COMMUNITY OF CELEBRATION

Community of Celebration is a series of multifunctional public spaces that aims to bring people together and celebrate life in a multitude of ways that promotes a healthy and active lifestyle. And with the "through the green" Park Connector (PCN) trail that enlivens and facilitate for a smoother transition from Kranji MRT station towards Kranji War Memorial and other focus areas within this Masterplan in hopes of attracting more human traffic to this forgotten region.



Masterplan Layout

Masterplan Zoning



PROPOSED PARK CONNECTOR

PROPOSED VEHICULAR CIRCULATION

PROPOSED PEDESTRAIN CIRCULATION

MASTERPLAN  
CONTEXT  
SELECTED FOCUS AREA – 4



OBLIQUE PROJECTION OF "THROUGH THE GREEN" PCN

Objective:  
Enrich public spaces to cater for different activities that promotes a Healthy Lifestyle



The Open Market is an Apothecary Garden filled with herbaceous plants that are known for their culinary and medicinal purpose. Events such as Weekend Marketplace can be held at this space for residents from neighbouring estates to come to trade, sell and buy home grown produce



The Terrace Garden focuses on Xeriscaping treatment to the landscape as it is a creative method to promote water conservation by having mounds and vegetated swale to direct water to the rain garden. Activities such as Community Festivities and Events can be held in the Terrace Theatre, terrace seating and the dense tree planting provides good acoustics to the space.



The Wellness Garden is a Healing Garden focusing on a place of refuge that promotes healing. By providing spaces for nature play and physical activities helps promote rapid recovery. Facilities and Amenities such as Fitness Corner and Running Track is provided for users to have an active lifestyle.



The Unrippled Waters is a Wildlife Garden featuring an idyllic constructed wetland for users to relax and rejuvenate in. With the use of aquatic and marginal planting to mimic the natural wetland surroundings, it could potentially help to improve the biodiversity by attracting new species of animals and insects to this space.

Sectional Elevation Through Terrace Theatre

## Connections - Community of Celebration



# OVERALL DESIGN

FAIZAH BTE HALIM



'ONLY COMPARE YOURSELF TO YOUR PREVIOUS SELF'

CONNECTIONS  
HEALING COMMUNITIES THROUGH CONNECTION

The design hopes to bring people together and improve relationships through sustainable interactive spaces. With lush foliage plants, it improves the spaces by improving the air quality as well as enhancing the visual connection throughout the site. Enabling people to interact with the spaces through the engagement of water also allows fun interactivity among loved ones.

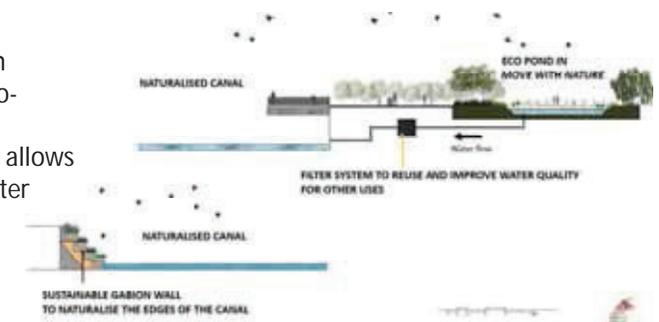


Fig 1: Four curated spaces for users to experience different ambiances that allow them to interact among themselves as well as the environment.



Fig 2: The Water Play Area lets users to reengage with water safely with its lush plants surrounding the water area. With that, users can have fun and feel secure at the same time with their loved ones thus, creating memorable memories together.

Fig 3: Each spaces has its own sustainable features to be eco-friendly. The Eco Pond that is located at Move With Nature allows its water to flow through a filter system to be reused for the naturalised canal.



HARI VIKNESH S/O  
VARADARADJO



'SUCCESS ISN'T OVERNIGHT. ITS WHEN EVERY DAY YOU GET A LITTLE BETTER THAN THE DAY BEFORE. IT ALL ADDS UP' – THE ROCK

CONNECTIONS  
FREEDOM OF HONOR

From the group masterplan we divided into 3 mass spaces - Reminisce , Nurture and Recreate

Reminisce - Focus Area 1, Where it is more focused on memorial war museum with the memorial war cemetery.

Nurture - Focus Area 2,3 and 4, Which will be mainly focuses to enhances community spatial experiences.

Recreate - Focus Area 5, Creates an exclusives spaces for the main users who part of the residential areas.

My category falls under Reminisce which is where I focus on reenacting and re creating the spaces specially catered for the users who might experience the spaces before entering the commercial area, which is the war memorial museum.

# War Memorial Park



N  
I  
War Memorial Park, Landscape Layout Plan

## Design statement

Vision - Reminisce  
By providing places to take visitors back to remember the golden era of Singapore.

## Design objective

Create a contrasting view for the memorial museum to attract visitors  
Educate the public on the historical events  
Create interactive spaces for the visitors



The circulation path for pedestrian is linear for easy access and crowd control.



Entrance welcoming : Vibrant & fragrance plants.  
Therapeutic theme: Texture, Aquatic & Herbs, Spices and vegetables Plants.  
Memorial theme: Columnal and plants for diversity, fragrance plantings.



Using materials that is mainly natural stones such as pebble wash , lava stone pavers and timber pavers



Blue layers that covers the therapeutic zones along slides by continuing to the sensory gardens and finally collection point towards the water play areas.

## Softscapes

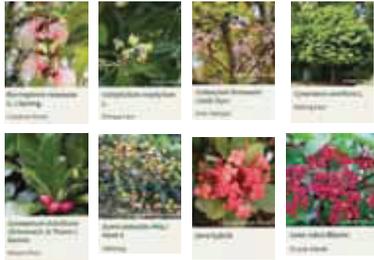


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# Public Walkway Network

This is Marji sky trail that is 11.8km long from one end to other. It has different transitions to the specific spaces. From memorial museum to all the way to Marsling MRT.

Allowing the sky trail to be 24/7 hours. By using this newly designed Marji Sky Trail, it can have an easiest and fastest walkway from the MRT to the museum by just 2km.



Perspective view of the Marji Sky Trail connection

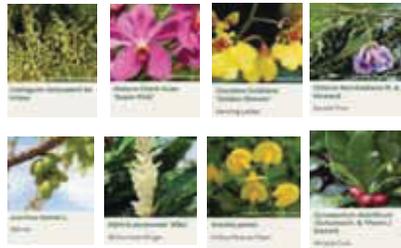
## Gateway Entrance

This space will be the main entrance / exit for the users, as its in the middle of the public walkway, as it will be easier to access, all the connections are nearby as the bus stop and PCN. Towards MRT and other Focus Areas.

The Marching gateway focuses to welcome the visitors with a pleasant view and has colorful planting, which gives the users a vibrant feeling once they stepped into the zone.



Perspectives view of the gateway entrance



## Event Plaza

In this space is current use as a space to display historical events using electrical touchscreen boards, as the visitors can educate about the past history of Kranji and the world war 2 involvement in Singapore. As in festive seasons this space can be able to transform as to organize mass events such as outdoor merchandise store, outdoor dining, and other event spaces relevant to the festival periods.



Perspectives view of the event plazas

# Battleground Play Area

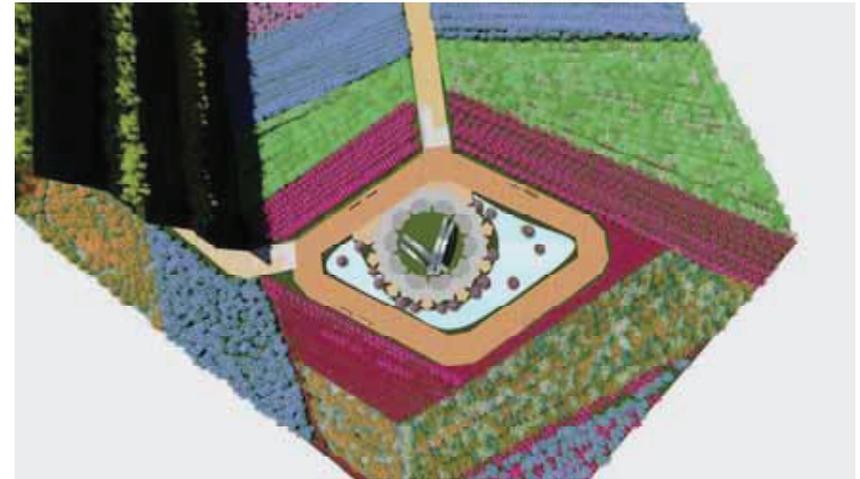
This space will introduce multiple playable zones. Which will feature the three types of elements such as air, nature & water, just like the army, navy and air force.

The battleground play specially for the younger users, in a way to encourage and embraces them for their future. To be stronger and healthier.



# Freedom Of Honor

This space is specially catered for the visitors to experience the walkthrough from the start by leading towards the war memorial water feature, which is to have a pleasant view with colorful vibrant plantings, leading the way up to the memorial to pay their honor to the soldiers who fought their life to save Singapore from the world war 2 events. This space has a great meaning towards the soldiers. Towards the future and more.

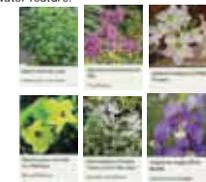


## Zoom-out Plan



## Memorial Water Feature

This space is a dedication to the lives that fought during the Japanese occupation from the events world war two. The walkway transitions the straight axis from enclosed to open space as it allows the users to feel the freedom-ness when they arrive to the water feature.



## Memorial Sculpture

The sculpture symbol features the freedom of a bird wings to have that thinking of being free and the wings being covered to act as if it's a protection to the one they love and care about. The direction of the symbol is pointing towards the war cemetery, as a dedication to the soldiers.



HO KAI WEN



'DESIGN IS NOT A SINGLE OBJECT OR DIMENSION. DESIGN IS MESSY AND COMPLEX' – NATASHA JEN

CONNECTIONS  
LEARNING EXPLORATIONS

Learning Exploration is a concept of connecting people with nature and also allowing them to discover more of nature.

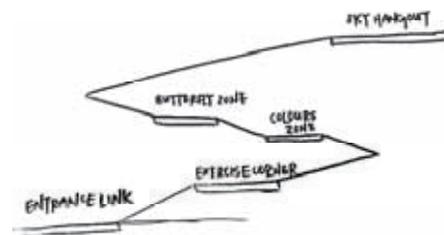
The aim of this project is to create an educational farm and recreational spaces for the residents and the public to heal.

An educational farm allow users' participation and engagement in planting different herbs and edibles, while recreational spaces with vibrant softscapes allow users to heal physically and mentally



LANDSCAPE LAYOUT PLAN OF FOCUS AREA

- 1 MAIN ENTRANCE
- 2 COMMUNITY FARM
- 3 AROMATIC ZONE
- 4 ENTRANCE LINK
- 5 EXERCISE CORNER
- 6 COLOURS ZONE
- 7 BUTTERFLIES ZONE
- 8 SKY HANGOUT



Without changing the existing slope too much, different spaces are at different heights, with ramp included for smoother accessibility for the disabled.



SPATIAL DIAGRAM

An area which focuses on connecting people with nature by using linear lines in design to direct people to different areas with smoother accessibility. The elevated sky trail, which has a gentle gradient, allows wheelchair users to have access to all the spaces freely, which the design pictures a linear loop seen from above.



Users who are coming from the bus stop, or from the previous focus areas, the space is surrounded by vibrant shrubs and groundcovers, allowing users to feel relaxed with small trees near the green buffer. They are also greeted by the signage, which also signal the entrance of sky walk up to other spaces on top.

MAIN ENTRANCE



Users who might come from Marsiling area will be delighted to jog here to explore different areas of the site. Exercise Corner is situated on a higher level from the ground, allowing users to pace themselves up the slope.

ENTRANCE LINK TOWARDS EXERCISE CORNER



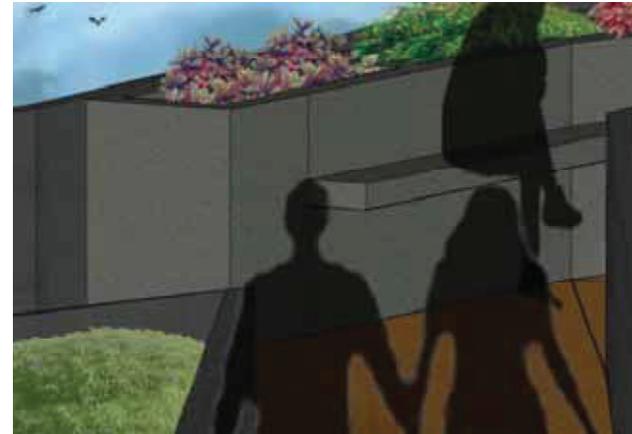
By walking through the sky walk from Exercise Corner, users are greeted by colourful groundcovers in front of them upon reaching Colours Zone. Groundcovers are sloped due to the nature of the existing slope, which emphasised the texture of softscape used.

COLOURS ZONE

A space where anybody is allowed to come and plant any herbs/spices or to harvest them, users will be intrigued to find grown herbs and edibles. It will encourage users to interact with one another while farming.



COMMUNITY FARM



A zone connected from Colours Zone, Butterflies Zone attracts fauna mainly butterflies, giving biodiversity to the nature. Users are able to interact with flora and fauna, specifically at this space, allowing them to heal mentally and physically. Flora are picked specifically to attract not just fauna, but also humans to rest at the space.

BUTTERFLIES ZONE



SECTIONAL ELEVATION ACROSS COMMUNITY FARM

The highest point of the whole site, standing at 3.5m is Sky Hangout, where users can come and enjoy the view at a high level. Users are able to walk to the space via Community Farm and from Butterflies Zone to get an aerial view of the whole site.

SKY HANGOUT



LEO JEMIMA ADELE



'ITS NOT ABOUT HOW HARD YOU  
HIT. ITS ABOUT HOW HARD YOU  
CAN GET HIT AND KEEP MOVING  
FORWARD'

CONNECTIONS  
OASIS IN VERDURE

My main design objective is to educate the public about the importance of coastal ecosystems and promote healthy lifestyle-based spaces for communities, and I plan on achieving this through my design strategies . I want to provide different types of spaces, such as a play area for the children, zen corners and therapeutic garden for older visitors to come and relax and a wetland meadow to allow users to come relax.



## Euphoric Meadows



The Euphoric Meadows is a wetland meadow that allows users to interact with the partially submerged planting. The euphoric ambience allows visitors to relax through the visual connection and take a calming stroll on the Boardwalk. This boardwalk also leads up to the mangrove trail. The boardwalk is also strategically connected to the raptor tower, it has two levels, both of which are connected to the boardwalk via ramps. The top level is used as a viewing area for visitors to admire the views of the euphoric meadows.





*Flower Dome*

The Flower Dome is a space that is enriched with colourful flowering shrubs, enlivening the area with its bright and attractive planting. The planters have varying heights to make the area interactive and visible for visitors of all ages. There is also a seating area behind the planter to allow users to rest.

***Tree Top Fun House***



*Zen Zone*

***Tranquility Cove***

As you enter Oasis in Verdue, you will walk through a series of towering trees and finally into the Tranquil cove, where you will be greeted by lush and colourful greenery and small water feature.

The Zen Zone promotes the wellness of mental health for the elderly and makes use of planting with a variety of compositions to provide an peaceful ambience. Apart from the tranquil cove, the zen zone allows the visitors to be more one with nature than enclosed in it.



JOLEEN NG



**'REALITY IS MERELY AN ILLUSION  
ALBEIT AN PERSISTENT ONE'**

PAYA LEBAR AIRBASE PROJECT  
THE EMERALD VOYAGE: INTERTWINING NATURE

A 'live, work, play' environment located in the central-eastern part of Singapore. Promoting the 'live, work, play' concept within the urban city and greenery. A green city.

Providing a conducive and relaxing space for users.



Proposed Masterplan



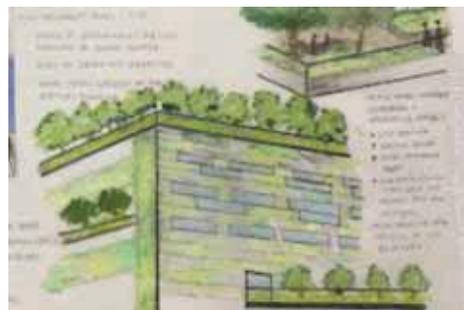
Mood / Inspirational Pictures

**Objectives**

Creating a 'live, work and play' concept that in cooperate greenery into a urban environment.

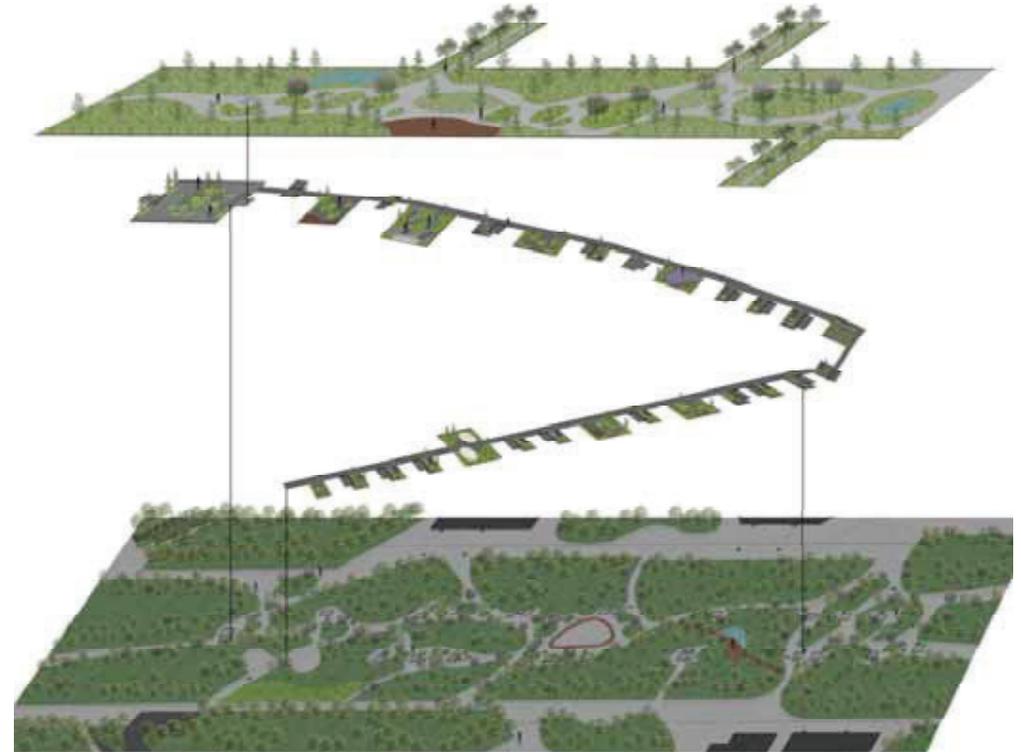
**Strategies**

- Creating spaces that encourage 'live, work and play' concept.
- Promoting a sustainable environment by implementing sustainable designs and methods.

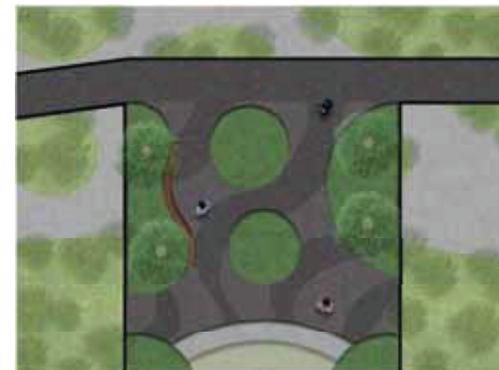


Mood / Inspirational drawings

**Proposed Isometric Plan for Intertwining Nature**

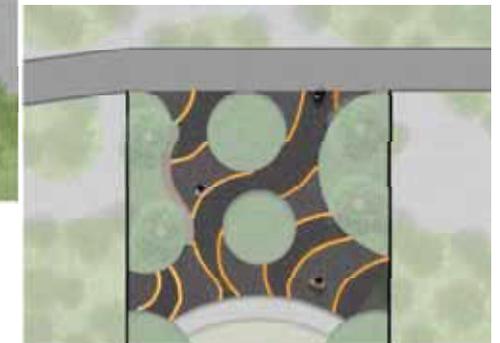


The main greenery of the three levels; highline (12m, 4<sup>th</sup> storey), ramp (10m, 3<sup>rd</sup> storey) and lastly is 1<sup>st</sup> storey, showcasing transition of hierarchy. From openness of planting to very lush and closed together. Meaning, the highest storey would obtain a more open planting enabling users to enjoy the view from a higher level. Meanwhile, a more closed and lush environment on the ground level. This is to showcase a green city with it's own character.



Berani Edge

The space provides a adventurous and playful ambience with it's character. It welcomes users with its vibrant coloured flowering trees and shrubs. The space also provides a viewing / resting space for users.



To further emphasis on the character of the space, the lighting design is implemented along the wavy paving pattern.

JOSEPHINE KWAN



**'KEEP GROWING, KEEP LEARNING'**

CONNECTIONS  
COMMUNITY IN A COMMUNITY @MARJI HUB

Marji Hub is a mixed-use development landscape design that promotes communal enhancements with creative and interactive spaces. To cater to individuals, families, and communities at any time of the day, with an abundance of planting varieties to enhance the quality of space.

Dynamism in design further expresses the space, purpose, and quality throughout. Combining this with the initial idea of 'verticality' allows for more room of upward growth and touch of modern design which wraps around the vision of Singapore to create a 'City in a Garden', but still maintaining and keeping the essence and identity of Marsiling and Kranji, the earthiness of these areas.



UNDER MARJI TRAIL



EXPERENTIAL FLOW

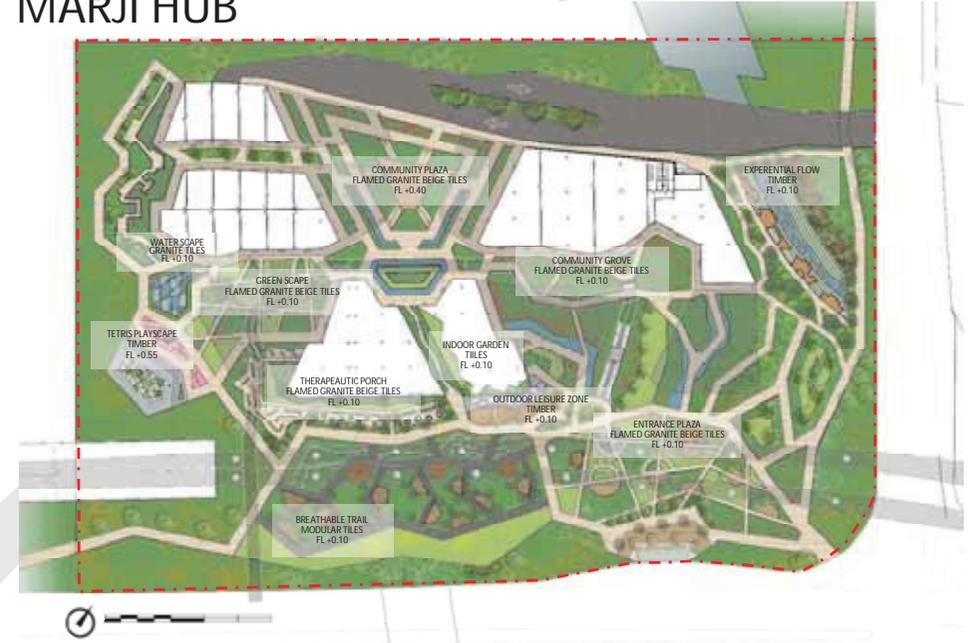


TETRIS WATERPLAY



OUTDOOR LEISURE ZONE

MARJI HUB



ENTRANCE



BREATHABLE TRAIL



THERAPEUTIC PORCH



TRANSCIENCE BLIP



WATER SCAPE



TETRIS PLAYScape

# MARJI TRAIL

An elevated skywalk that begins 8m above ground across the MRT track and slowly descends as we journey through Marji Hub. It is also a full circulation that brings visitors to various podium levels at various parts of the bridge.



**COMMUNITY BOULEVARD – MARJI HUB**  
Promotes communal enhancements during the day with wide variety of plant selection to create a Marji experience on ground level. An indoor trail it is!

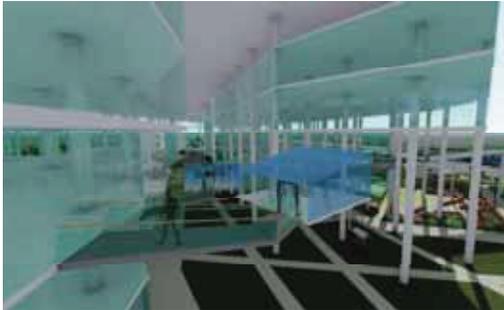
**VIEW FROM THE TOP OF MARJI TRAIL**  
Standing above to look out to the breath taking view at the Marji Trail, it is relaxing yet calming and allows one to feel at ease.

Upon being on the Marji Trail, it extends out to various floating shops and allows exits to podium level which caters to ease of access and exits for users.

Allowing it to be all user friendly yet design creative and friendly.



**EXITING MARJI TRAIL – TROPICAL PLANTING**



**FLOATING SHOPS AND EXITS TO PODIUM FROM MARJI TRAIL**



# TRANSCIENCE BLIP

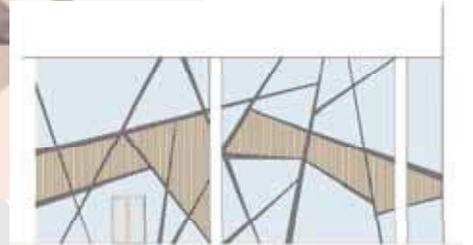


Transcience Blip provides a smooth transition from an indoor garden to an outdoor lawn. With the garden located within the community library, a feature door and wall is designed to connect both the inside and outside spaces which creates a seamless connectivity.

This allows for activities from within to be brought outside especially during the evening when the weather is cooler, users can bring their books out for a read while watching the clear skies.

**BUILD UP OF TRANSCIENCE BLIP:**

With a green wall at the bottom which connects to ground design, followed by timber and glass which represents the past and the present, maintaining the essence of Marsiling-Kranji while developing.



**COMMUNITY LIBRARY FAÇADE DESIGN TO COMPLEMENT FEATURE WALL**



**OUTDOOR LEISURE ZONE – RIGHT SIDE (library extension)**



**OUTDOOR LEISURE ZONE – LEFT SIDE (library extension)**



## JOYCE TEO



"Even A Brick Wants To Be Something" - Louis Kahn

### CONNECTIONS

#### Honour the Fallen

A memorial park that adopts a tropical rainforest ambience to create a timeless journey that educates user about the journey of World War 2 soldiers. In hopes that being surrounded by nature and lush planting enables users to experience peace and calmness in a safe and secure environment, which could only happen through the sacrifices of the soldiers, hence thanking them.



LANDSCAPE LAYOUT PLAN



MASTERPLAN



VEHICULAR



CYCLIST

### CONNECTIONS

Design aims to rejuvenate the area from Kranji MRT ← → Marsiling MRT by connecting new & existing developments along the track (& beyond) with public space network to strengthen community bonding.



### HONOUR THE FALLEN.

#### OBJECTIVES

To create a landscape where users experience going through an educational journey to gain knowledge on the past World War 2 that happened in Kranji, Singapore, as well as about Kranji War Memorial.

#### STRATEGIES

- To create spaces for users to learn the ways of 'Survival'
- Layered planting and mounts to mimic a tropical rainforest ambience
- Tapping into the senses of hearing and smell
- And lastly, spaces for learning through Exploration and Play.



ENTRANCE

Users who are coming from the PWN (Through the Greens) that is from the Kranji MRT, the space is surrounded by softscape. The Entrance marked by a feature tree (Samanea Saman) as well as sloped planting curved into a pathway leading the users up. The sound of water flowing from the cascading water feature mimics the sound of the river where the Japanese invaded, attracts the users into the space. Curvilinear patterned flooring guides the users up to the highest point where timber benches are provided as a waiting point or resting space before they begin their journey towards the other spaces.

Edible garden that tests the physical aspect of 'Survival' of the users. A linear path accompanied by a small rocky terrain path for users who are into a challenge. Layered planting softscapes to create a rainforest ambience and tree tunnels to create a semi enclosed space to test the braveness of users. Edible plants (such as Fig Tree) that are commonly found in the tropical forest to aid in their 'survival' and gain knowledge on softscapes.



WAR PATH



RESTORATION IN HARMONY

Restoration in Harmony, flowering and fragrant plants, tapping into the sense of smell of users. A smooth transition from tree tunnel to the open sky, this space represents victory won after surviving War Path. From a linear path to a curvilinear path to symbolise smooth journey ahead. Biodiversity attracting plants symbolises new life.



MAZE GARDEN

Maze Garden, testing of mentality and learning through exploration. It is suitable for families or users who want to explore, the maze garden consisting of dead ends and tall hedges for users to go through and explore different softscapes that will help users to get out of the maze.

Learn through exploration and interaction. A sudden change of softscapes instead of being surrounded by tall hedges, creating a soft ambience. A semi enclosed space surrounded by softscape that opens to the sky for users to reflect and rest. Sculptures of canons and other features for users to interact with, before heading to the museum to learn more about the History.



SCULPTURE GARDEN

Open plaza is a space for events in front of the museum such as Remembrance Day which is held every year. Palms (Foxtail palm) line the exterior of the museum to create a different grand inviting ambience compared to the Entrance, to distinguish the space.



OPEN PLAZA & MUSEUM

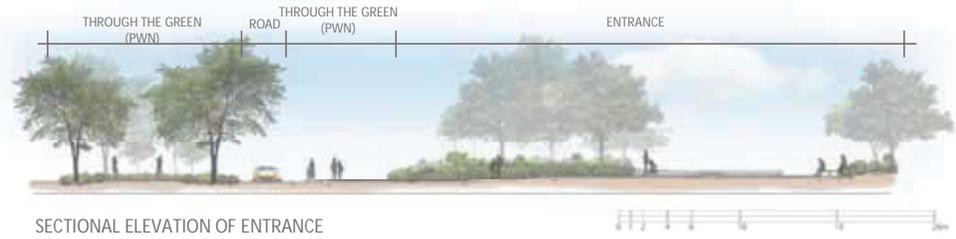


DROP-OFF & PICK UP POINT

Drop off and pick up point to encourage and cater users who come to the memorial park via vehicular. Ornamental plants which such as (Lipstick Plant) in the middle of the drop off to indicate the space as well as to create a bright inviting ambience for the users. Timber pavilions with seating provided as a waiting point while waiting or before moving on towards Kranji War Memorial or Museum.



SECTIONAL ELEVATION OF ENTRANCE



SECTIONAL ELEVATION OF ENTRANCE

LI SIQING



'I BELIEVE THAT A GOOD LANDSCAPE DESIGN NOT ONLY SERVE FOR PEOPLE, BUT ALSO, SERVE FOR OUR ENVIRONMENT. INTEGRATING WITH PLANTS, MATERIALS AND WATER, A LANDSCAPE DESIGN TELLS A STORY ABOUT HUMAN AND NATURE'

CONNECTIONS  
BLOOMING LAND

The design aims to educate the public about tropical flora and coastal ecosystem. It is a place where visitors will experience attractive and lovely tropical flora sensation along the walkway and in the spaces. They will also be educated about coastal ecosystem in mangrove area.



This immersive gateway is located at the main entrance from Railway Corridor. With vibrant and colorful flowers lean on the flower petal shaped structure, it welcomes people and implies visitors that they are going to a flower world.



The raised planters which contain butterfly attracting plants allow people to come closer to discover the butterflies. Eco-pond is located at the entrance of this space, it will bring visitors a natural feeling when they walk into the site. It is a space where human and nature are interacted with each other.



The tropical and coastal adventure has many animal sculptures which can be found in these two ecosystems. The two pavilions at each space is provided for activities such as exhibition show to educate the public about these two ecosystems' flora and fauna.



Mangrove trail is a learning walkway for the visitors to experience coastal sensation. It evokes people sense of awareness to protect mangroves. The trail gives people mental refreshing and serene feeling.



360 VIEWING GARDEN

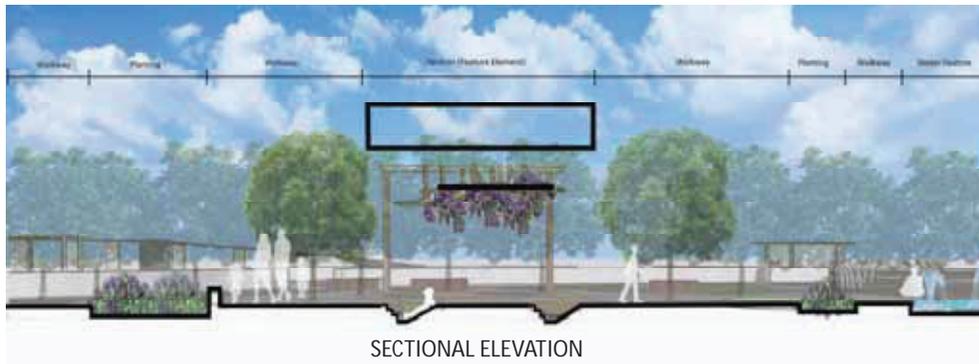


360 VIEWING GARDEN- NIGHT VIEW

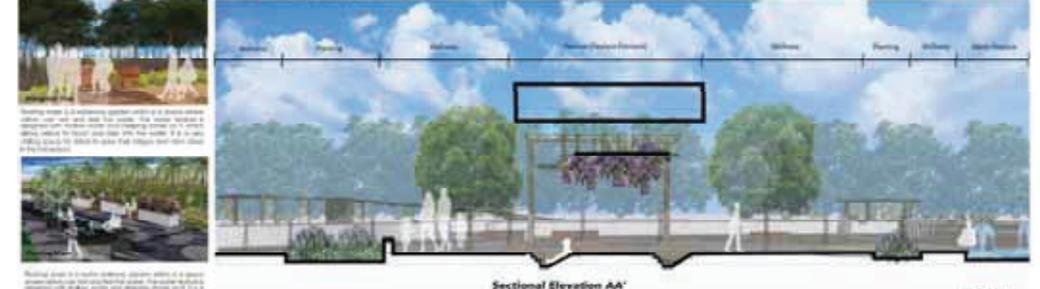


360 VIEWING GARDEN

This 360-viewing garden will bring people a different perspective to be immersed in tropical flora environment. With the magic of integrating softscape and hardscape, this pavilion brings the sky and earth upside down.



SECTIONAL ELEVATION



Sectional Elevation AA'

LI SHUWEN



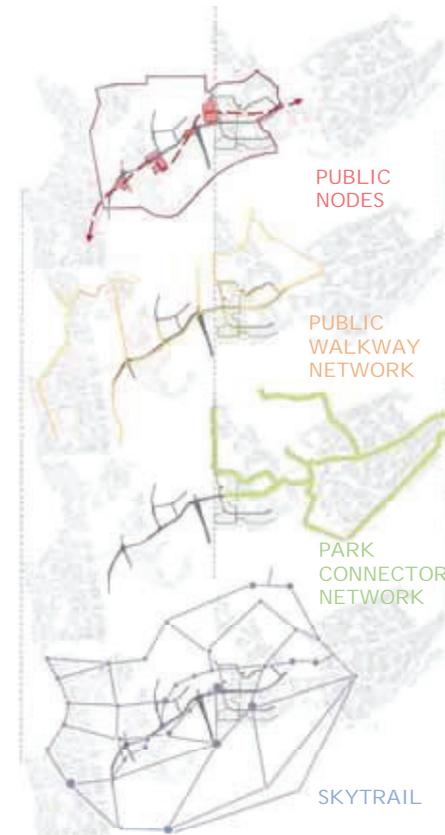
'WHATEVER THE MIND OF MAN  
CAN CONCEIVE, IT CAN ACHIEVE.'

CONNECTIONS  
LIVEABLE COMMUNITY

A community park locates opposite to KANJI MRT Station with interactive outdoor spaces where engage all walks of people to have a work-life balance by participating in physical exercise and releasing mental stress to enhance community's overall well-being.



## CONNECTION – LIVEABLE COMMUNITY



### VISION

- To rejuvenate the area from Kranji MRT to Masiling MRT by connecting new & existing developments with public space network to strengthen community bonding.

### CONCEPT

- Liveable community is a community park form by interactive outdoor spaces where engage all walks of people to have a work-life balance by participating in physical exercise & releasing mental stress to enhance community's overall well-being.



### DESIGN OBJECTIVE

- To create interactive spaces which benefit the community's physical and mental health.

### DESIGN STRATEGIES

- Create Bamboo Hearing Garden for relaxation & meditation
- Create Public Plaza for day & night activities
- Create Outdoor Fitness Hub for community daily workout
- Create Commercial Farm for educating on urban farming technology
- Create Community Garden for community social interaction
- Create Mandai Voyage for educating on natural resources & entertainment



FEATURE SPACE  
BAMBOO HEARING GARDEN



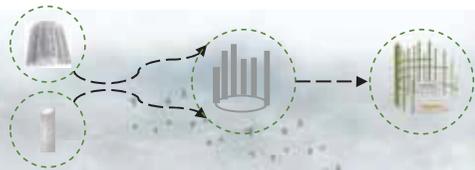
Bamboo and plants with various texture will be planted along the primary circulation in Bamboo Hearing Garden to create semi-enclosed spaces for different users and engage interaction with nature.



Bamboo Hearing Garden provides semi-private spaces for restoration & meditation and the peace in heart will make people be patient and more curious about the soundscape created by different landscape elements set up around .



The primary circulation will be work as wind funnel to concentrate the wind at site, so when wind blow through this feature wall, the bamboo chips stringed by cable will hit each other to create wind chime sound.



MAIN ENTRANCE

BAMBOO HEARING GARDEN

TIER PLANTING

OTHER MAIN SPACES



Public arts exhibition with light show and concert can also be conducted at Public Plaza as night activities to entertain the community.

Mandai Voyage is a recreational area where people can have a sightseeing on the boardwalk and also encourage community to learn about biodiversity & constructed floating wetland. The platform connected with bridge will bring people going down and get closer to waterbody.



Public Plaza will be used to conduct various day & night activities to enrich people's lives. Sculptures which represent the history of railway corridor are set up with information board to educate the community about the background of railway corridor and also separate the event space from resting area.



MAIN ENTRANCE

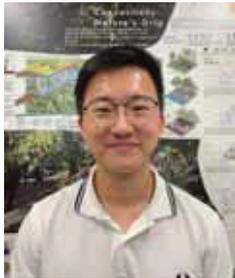
BAMBOO HEARING GARDEN

EXIT POINT

### 3 Main Design Themes



LIU ZHEN PENG



'WHAT COULD I DO, THAT I WOULD DO, TO MAKE MY LIFE A LITTLE BIT BETTER?'

CONNECTIONS  
NATURE'S GRIP

Nature's grip is a sculptural representation of nature's protection over the human race and how we must take concrete steps to reciprocate, to love, for this is our only home.



### 3 Main Design Themes



#### Scenic Area

Spaces in the Scenic Area will be focused on providing gathering and interaction spaces with wide-crowned trees as backdrop and the space itself provides a artful and memorable background for the site.

#### Island Discovery

Central wetland Islands are purposed to be both functional and recreational. Gravel and woodchips flooring with marginal planting are used to provide conducive spaces for nature appreciation and play.



#### Forested Walk

To create a varied learning experience by tree and palm groupings, with unique shelters that mimics the shape of Avicennia marina's fruits and flower, a once common but now critically endangered species of Mangrove trees are provided to remind visitors of the vulnerability of nature.



MOHAMMAD  
HARIZ



'THE STRUGGLE YOU'RE IN TODAY  
IS DEVELOPING THE STRENGTH  
YOU NEED FOR TOMORROW.  
DON'T GIVE UP' – ROBERT TEW

CONNECTIONS  
SUSTAINABLE FLOW

Sustainable Flow promotes healthy and active living as well community interaction. It nurtures users' knowledge on sustainability and greenery while exposing them to different modern farming methods as well as their benefits which aims to inspire them to apply their gathered knowledge at home. This can help to bring about many environmental benefits in the long run.



Seating Area @ Community Plaza



Butterfly Garden



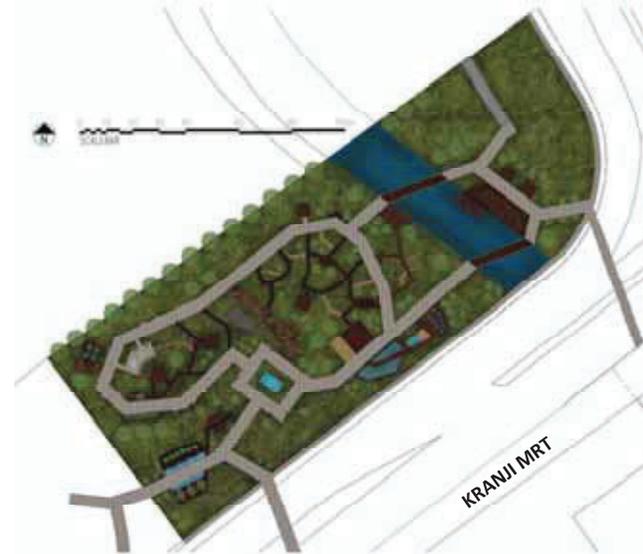
Hydroponics Garden



Espalier Garden View 1

## Sustainable Flow

Aims to rejuvenate the Kranji area and create a place where the community can come together to interact as well as to appreciate and learn more about greenery.



LANDSCAPE LAYOUT PLAN



MASTERPLAN

The site falls into the 'NURTURE' ZONE where users are exposed and thought about urban agriculture and water sustainability.



Community Plaza

Situated beside the entrance, the Community Plaza allows users to exchange or sell their crops which in turn provides opportunities for interaction. Lush and brightly colored planting helps to attract users to the space.

Beside the plaza consists of open and enclosed seating areas where users can rest, gather, interact among the community and do activities. They provide users with different ambiances depending on their needs.



Open Seating Area @ Community Plaza



Enclosed Seating Area @ Community Plaza



Vertical Garden

The Vertical Garden consists of various green walls from from planter, cassette and pocket systems for users to view and learn from.



Hydroponics Garden

The Hydroponics Garden exposes users to growing crops without needing a soil base. Users can learn and start growing their own crops which is sustainable.



Espalier Garden View 1

The Espalier Garden exposes users to a farming method that can be used in a confined space such as a HDB corridor. Some ideal plants users are able to grow using the method are Anonna muricata, Coffea arabica and Citrus limon which are commonly produced.



Espalier Garden View 2



Adventure Trail View 1

The Adventure Trail provides natural elements for users to explore and play. Self play elements will help to nurture a child's social and motor skills as well as improve aspects such as their imagination, creativity, physical and cognitive strength which are beneficial for their development.



Adventure Trail View 2



Roundabout Garden

An intersection zone to different spaces within the site. Users will wander to different spaces as they admire the features of the garden.



Butterfly Garden

The Butterfly Garden provides users with a space to relax among the lush flora. It also benefits biodiversity as a whole as butterflies play a big role maintaining ecosystems.



Sensory Garden

The Sensory Garden stimulates users' 5 senses and provides them with relaxation as well as horticultural activities which they can enjoy and learn more about plants



Bio Pond @ Eco-

The Bio Pond provides many environmental benefits. Also, it collects rainwater which will be transferred into the filtration tank to be cleansed and reused for the Water Play Area. This helps to conserve water and is sustainable.



Water Play @ Eco-Garden



Water Bench

Besides providing seating, the water bench collects rainwater through 1mm inlet gaps which is then transferred to a filtration tank to be cleansed. The water can then be used for irrigating the site's plants or other activities.

# Urban wetland framework

MUHAMMAD  
HAMIZAN BIN HARUN



'IN THE END, ITS NOT THE YEARS  
IN YOUR LIFE THAT COUNT. IT'S  
THE LIFE IN YOUR YEARS.' –  
ABARAHAM LINCOLN

CONNECTIONS  
DRAGONFLY'S LAIR

The design concept is to unify the kranji- marsiling area as a whole identity and I have chosen it's wetland elements part of the design as it's wetland is the biggest compare to other regions and public used to visit this area for is nature wildlife and marshes.

With the concept I have chosen one of the team objective which is to enhance the biodiversity of the ecosystem. Biodiversity is one of the most important consideration as we urbanize their habitat, we have to ensure that the endangered habitat will not be drastically reduce. With the concept I have chosen, I would able to protect certain wildlife as they find their new shelter, food and water sources for their daily need.

There are three major wildlife wetland in singapore which is butterflies, dragonflies and birds. This wildlife help to balance the ecosystem in nature wetland. With the wildlife I have decided to build up the spaces with their characters dividing to three categories lively which will be butterfly theme gardens and spaces, adventure will be the theme for dragonfly and naturalistic will be the theme for the bird.



## Design statement

To design a green corridor that engages the public in community bonding amidst the diverse biodiversity, and enhancing its features using the natural landscape.

## Design objective

To enrich the biodiversity for the eco-system



The circulation path for pedestrian is linear for easy access and crowd control.

Butterfly theme : Vibrant & fragrance plants.  
Dragonfly theme: Texture, Aquatic & Herbs, Spices and vegetables Plants.  
Bird theme: Forest and coastal plants, drought tolerance.

Using materials that can be found in wetland mainly stones such as pebble wash to associate sea side vibe.

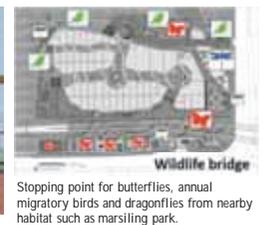
Protect wetland systems and address urban problems like polluted runoff.  
Water collection for irrigation for the plant

## Softscapes

- Ludwigia hyssopifolia (G.Don) Exell
- Bidens pilosa L.

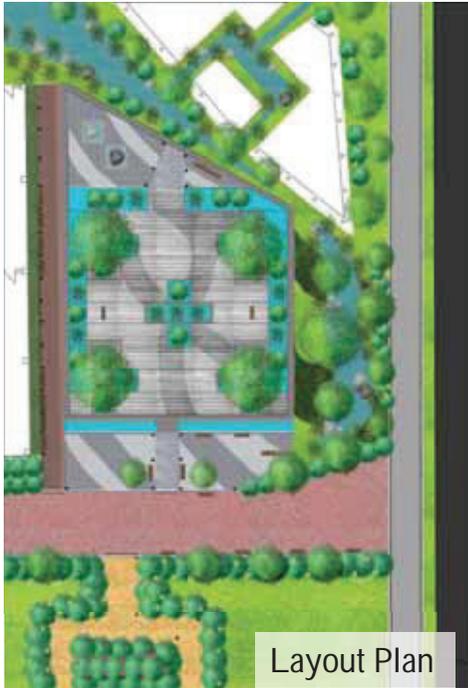
## Hardscapes

- Outdoor LED sculpture
- Solar panel

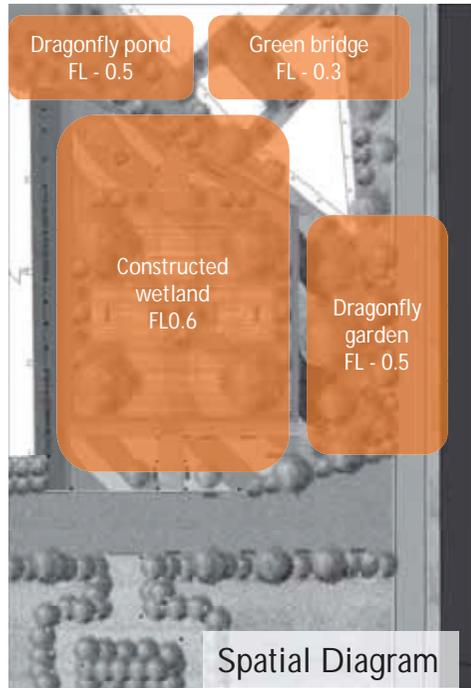


# Dragonfly's lair

User able to rest in the construct wetland space while enjoying the sun view and shade from the trees. Using concrete boardwalk to simulate the user walking in a wetland. As the water sounds will help to relax and calm the user while resting or taking a short break. There is also dragonfly trellis sculpture which will be the focal point of this space and floating rock for user to interact. This dragonfly's lair also help to cleanse the urban water with four types of water filtration from constructed wetland to dragonfly pond, dragonfly garden and lastly floating green bridge with the help of aquatic plants and water proper channeling. So the water will be use for water elements in the park and irrigation for the plants.



Layout Plan



Spatial Diagram



## Dragonfly garden

Dragonfly garden allow the wildlife to drink water, hide from predator and rest from annual migratory. Dragonfly is important part of the wetland ecosystem as it able to determine how clean the water is and help to kill garden pest such as mosquito as it is one of the major insect carry diseases that could harm human beings.

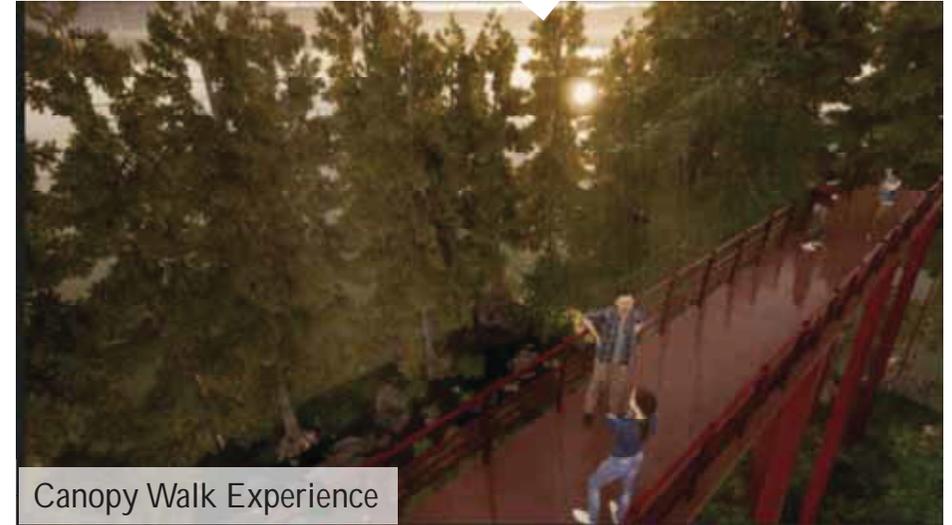


## Green bridge

Green bridge is a nature stream that also help to slow down the water flow transferring from other spaces to the main water body of the dragonfly pond. It also able to collect rainwater as it cover partial of the main drain as it will be use for irrigation for the dragonfly garden.

# Day Activities

In the day, user will be able to experience community garden, where they can have hands-on activity such as growing their own crops, harvesting vegetable and fruits for their daily cooking. They will be able to also observe the butterflies roaming around the gardens while extracting nectar plants around the building, they will also be able to enjoy nature fragrance near the entrance which was produce my the jasmine flowers, the main day activity would be the canopy walk, where they can experience emmersive nature walk while looking above the trees, they will be able to snap a beautiful landscape photography while enjoying the sun rise and sunset which allow them to have chance to encounter the unique kranji migratory birds from far distance and also the common park birds.



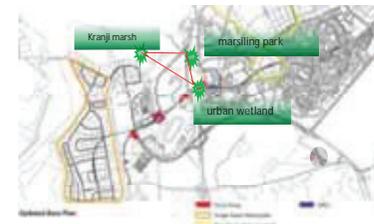
Canopy Walk Experience

# Night Activities

During the night, user will be able to enjoy various light activity and observation, where the garden will come to live, such as colorful sculptures that can be found in sculpture garden, musical light fountain that can be found inside the building, the whispering sound of the wetland planter which can be found in dragonfly's lair near the building and lastly the tree top where they can experience night forest walk which they will be able to hear clearly the sounds of cricket and frogs while enjoying the moonlight ray. The railing light will also create a unique walking experience from the canopy walk as it enhance the timber floor as it will simulate walking in a real forest in an urban area. They will be able to also enjoy the songbirds as it greet the user on a sunrise and during sunset.



Night view

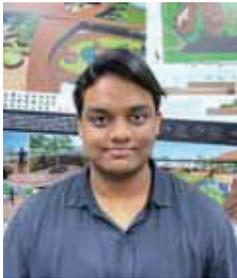


Enhance Wildlife Corridor



Black naped oriole

MUHD NIHAL



**'YOU HAVE TO REALLY BELIEVE NOT ONLY IN YOURSELF; YOU HAVE TO BELIEVE THAT THE WORLD IS ACTUALLY WORTH YOUR SACRIFICES'**  
 – ZAHA HADID

**CONNECTIONS  
 EPOCH**

Epoch is a series of spaces that connects people of various ages from different walks of life with the history of Kranji-Marsling through the use of thought provoking elements and integration of environmental sustainability strategies. The unique learning experience is crafted from the entrance to exit with the use of natural tones, materials and welcoming atmosphere within a simplistic setting for the visitors.



Wetland Garden



Flora Garden



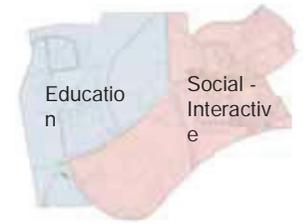
Outdoor Gallery



Aloft Garden



**Masterplan**



Kranji-Marsling Zone Education Zone is designed to help educate the public on various topics surrounding Kranji-Marsling Zone

Social and Interactive Zone is designed to help promote community bonding and interact with the spaces



**CIRCULATION LAYER**  
 The proposed Public Network Walkway is designed with key frameworks to connect people from all walks of life to different nodes and spaces.



**BLUE LAYER**  
 ABC water features will be implemented such as ponds and other water ways to improve water efficiency by cleaning the water and using it for recreation Purpose.



**GREEN LAYER**  
 The areas that are sparse in greenery will be improved to help create a more greener masterplan that will cater to the nearby residential areas and commercial areas



**PASSIVE SPACE**  
 Fragrant and lush tree foliage with strategic placement of colourful for passive and recreational activities



**INTERACTIVE SPACE**  
 Integration of interactive elements into the trail nodes and treated separately from pedestrian walkway with entry and exit points



**INTERGRATED SPACE**  
 Integration of bicycle lanes into the trail and treated separately from pedestrian walkway with entry and exit points



Wetland Garden is the featured space, greeting the users when they enter the park and is enticed by the subspaces where the users can learn about the historical culture and environmental sustainability together and how they interact, encouraging the users to explore onwards

Eduspace combines the elements of play and learning through the use of sand pits and props inspired by the historical artifacts to educate the public about the historical culture.



Flora Garden is relaxation space, designed with fragrant flowers and herbs to help the users to relax, enjoy and participate in activities promoting environmental sustainability.



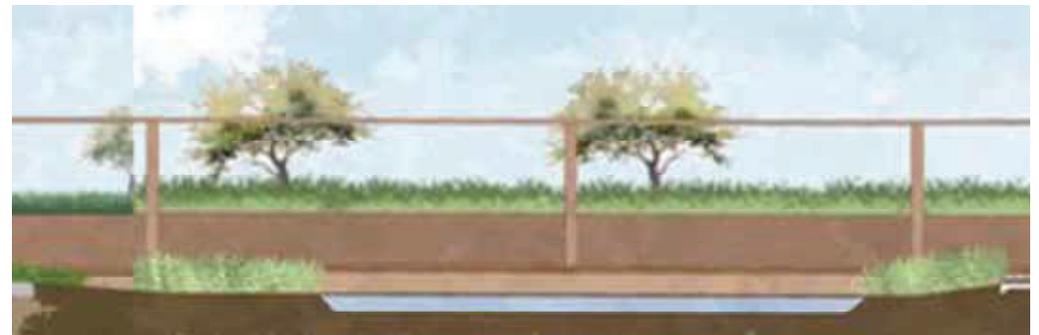
Outdoor Gallery is an open spaces, designed to promote cultural activities with elevated stages and promote organised events and exhibits with historical significance.



Aloft Garden is an elevated space and marks the end of the whole spatial journey with a symbolic centre and endow the users with meaningful experience



Sectional Elevation of the Wetland Garden



# Urban Agri-Haven

MUHAMMAD  
SALIMULLAH BIN  
ABDUL AZIZ



Entrance Garden



Native Garden



Fruit Garden



Vertical Green Farm

'STYLES COME AND GO. GOOD DESIGN IS A LANGUAGE, NOT A STYLE'

CONNECTIONS  
URBAN AGRI-HAVEN

The user will enter the site by the entrance garden which gives off the attractiveness of the space by using bright and warm coloured plants to get the users excited and also giving them a pinch of Kranj history by planting pineapple plants along the entrance garden. Users will venture through the native garden where a variety of Singapore native plants with different forms, sizes and colours are used to create a hierarchy in the space. A feature tree is also used in the native garden which is the Keranji tree were Kranji got its name from that tree. This towering tree creates shade for the users in the native garden. This is a heritage tree which will educate the users about kanji's history.

Users will walk along several farms such as the Terrace farm which uses gabion as a retaining wall for the terrace farm as it is sustainable to use natural rocks for my design space and the different levelling of the terrace garden peak the interest of the user. This includes a variety of vegetables crops grown in the space, educating the users that terracing is a sustainable way of agriculture when dealing with water surface run off. Walking along the fruit garden which creates an enclosure space by only planting a variety of fruit trees in the garden so that users are able to learn that there are such fruit trees in Singapore which are able to grow. The mass amount of trees creates shades for the users in the space. Directly beside the fruit garden, is the outdoor cook garden where there are variety of native and tropical herbs and spices grown for the users to use while cooking in the space. By planting plants of different shades of green to create a pleasant looking landscape.



Landscape Layout Plan

1:500



Design objective:

Educating the community about sustainable agriculture through interactive spaces and improving community bonding.

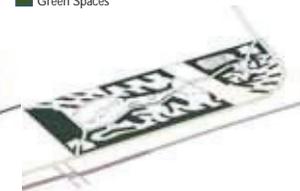
## Circulation Layer

- Overhead Bridge
- Agri Trail in space
- PWN (Public walking network incorporated with Agri-trail)



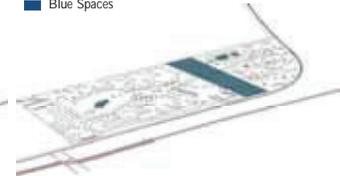
## Green Layer

- Green Spaces



## Blue Layer

- Blue Spaces



- Agri trails is part of the main circulation in the plan itself which gives a new experience for the users as they venture through different type of sustainable farms,
- More trees are planted to create shading for the users and also most of the shrubs are planted together below the trees to create an agroforestry type of character in the spaces
- Water spaces such as bio pond, shallow water play to enhance the spaces



Grow

Community will be able to grow different types of crops and cultivate in certain spaces by themselves.



Harvest

Community will be able to use these harvests for festivals and cooking and even for selling.



Learn

People will be able to learn about the sustainable ways about how agriculture can be done so that they will also inherit these techniques in their own life.

## Softscape Palette



## Outdoor Cook Garden & Fruit Garden



This fruit garden contains mostly of trees creating a big shade for the users and also this space is made of trees which can bear edible fruits for the users to use and cook beside the cook garden. Garden mostly contains tree planting to create an enclosure for the users as they walk through

## Community Farm

By having plants of different texture and size of edible plants so that the users can learn on how to grow these type of plants. Some of these type of plants require different type of soils so they will learn on how different type of soils is effective for plants



## Agri Play



Users can play around with equipment which is based on how people in the past used those tools for ploughing and cultivating land and in which the users can also learn from it . To enhance the play space , bright coloured plants are used to set a exciting feeling and also trees which blooms bright flowers.

## Water Wheel Garden



1:150



Bridge Connection



Zoomed-In Detail Space

Water wheel is a sustainable way of saving water which is part of an agriculture system. The solar energy from the sun will cause the water wheel to move by collecting water and channelling it into a bio pond and cleanse the water



Entrance



Water Wheel Display/Shallow Water Play



Axonometric Diagram

Water wheel is a sustainable way of saving water which is part of an agriculture system. The solar energy from the sun will cause the water wheel to move by collecting water and channelling it into a bio pond and cleanse the water

Xeriscape Palette



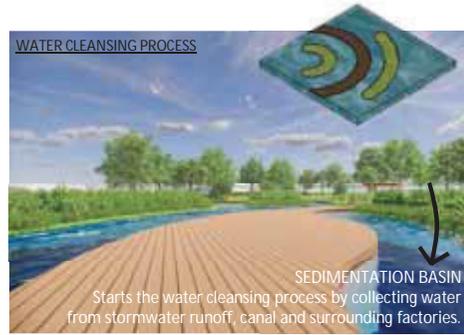
NG JUN JIE



**'LET'S STOP WAITING FOR A BETTER WORLD, LET'S START WORKING ON IT TOGETHER.'**

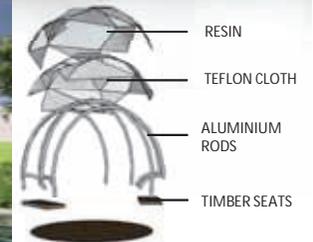
**CONNECTIONS  
AQUA AFFAIR**

Aqua Affair mimics a water cleansing system, however using landscape design to provide its purpose. To improve connectivity, universal design is highly taken into consideration while creating Aqua Affair. With improved connection, it encourages neighbouring residents to get more involved in community activities and events. With Aqua Affair's highly sustainable and community engaging factors, it will significantly rejuvenate Kranji – Marsiling, enhancing it to make it truly a City in a Garden.



**AQUA AFFAIR**

CREATING SPACES TO EDUCATE AND BOND THE COMMUNITY



Materials are chosen to enhance the 'floating on water' effect with the assistance of natural light.

Each dome are also strategically placed to have a sensory garden within their field of vision while resting in the dome, enhancing the tranquil effect.

**UNIVERSAL CONNECTIVITY**



To improve connectivity, Aqua Affair includes a ramp connecting the Tram Station and the Community Garden, Edible Garden and the Community Plaza, allowing ease of access for people who are physically handicapped. With this improved connection, it encourages neighbouring residents to get more involved in community activities and events.

**GARDEN OF SENSORY**



Garden of Sensory is a series of self-sustaining gardens each specifically triggering a different sense. These gardens are irrigated using the water collected and cleansed on site. The Garden of Sensory provide for both active and passive uses as well.

**PASSIVE USE**  
The gardens significantly beautifies the entire site with their lush planting and aesthetically pleasing colours. These gardens can be seen from a distance away due to their striking plant compositions, be it from Dome on Aqua, Connector Plaza and even from the Community Plaza.

**ACTIVE USE**  
These gardens are located at corners of the site, minimising unnecessary noise from the surrounding. This enhances the tranquil ambience in the gardens, making it an ideal place to simply relax at.

**COMMUNITY ENGAGEMENT**



**COMMUNITY GARDEN**  
Community Garden is designed to assist people who are physically handicapped as much as possible. Universal planters are also provided for the involvement of the handicapped.

**EDIBLE GARDEN**  
Edible Garden is strategically located directly beside the community garden as they spark similar interests. This allows ease access for the community to move between both spaces.

**CONNECTOR PLAZA**  
Located at the heart of Aqua Affair, acting as a connector as well as meeting point. This allow efficient and convenient access for all sorts of people.



**WATER FLOW THROUGH AQUA AFFAIR**

SEDIMENTATION BASIN → BIO-SWALE → BIO-POND → UNDERGROUND WATER PIPE → UV CLEANSING PLANT



**AQUA AFFAIR**

**CREATING SPACES TO EDUCATE AND BOND THE COMMUNITY**

Aqua Affair utilizes a water cleansing system, featuring using landscape design for purpose. To improve sustainability, outdoor design is highly relevant here considering the multiple benefits. With improved environmental management, landscaping practices are also identified to enhance activities and create. With Aqua Affair's highly sustainable and innovative landscaping features, it will significantly improve through a landscaping, enhancing it to make it truly a City on a Garden.



**WATER CLEANSING PROCESS**



NHIN YI SU



'ALWAYS LOOK ON THE BRIGHT SIDE OF THINGS'

CONNECTIONS  
THE LIVING GROVE

The Site is situated near Marsiling MRT and in between industrial district and residential area. The living grove came from the idea of bringing a diverse group of people closer to nature. It is located within social and interactive zone in proposed master plan to promote community bonding and activities. So, purpose of this design imposes spaces for interaction and learning.

The aim of the design is to create lively and interactive community spaces and green spaces for all ages.



CONNECTION – The Living Grove  
To create lively and interactive community space for all ages



ing for the community during the day, while at night, this 5m-7m high feature will be lit with warm lighting creating a focal point in the living grove water play in the open amphitheatre. Selected Quisqualia indica creep onto the timber column to give vibrant ambience, creating naturalize



Nature Play area use timber, sand, and log material for the naturalistic look. Play equipment are built with nature material like log timber to allow user to get closer to nature and the element are specially designed for enable children to physically challenge themselves, take risks and have fun by climbing, jumping and rope play through playing. With enclosed area parent children and community are rooted to be connected with each other.



Open amphitheatre in the living grove give freedom to those that are wants to use this space. It acts as a performing spaces and interactive water playscape to visitor too. This space is encircled with terraced sitting with a 360 view towards the centre of this amphitheatre. To increase the fun of this space, the play of level between ground level and open amphitheatre is used to differentiate them and brings them down to the next space

## COMMUNITY HUT

### Softscape selection



Community Hut surrounded with lush softscape to provide shade and forestry ambience. The community hut allows community event like a green market day to take place where the community can sell their crops harvested from the community farm. When no events are taking place, trellis seating area and timber deck are provided for visitor simply rest and conduct their own activities.



## LEARNING POD

### Softscape selection



Learning pod is outdoor classroom where teachers from neighbouring school can bring their students or community organiser can bring group of community to educate them about nurture plants and its system. While no lesson are happening/conducted it passively serve as a resting spot as well as greenery showcase area for community to come and be apart of the living grove through green activities.



## FOREST WALK

### Softscape selection



The forest walk is where it replicates the experience of journeying through an enclosed environment just like a forest. It provides a seamless connectivity between marsling park and the living grove for people to enjoy the scenic view along the waterway. The forest walk features lush and dense planting palette which forms a natural and comfortable ambience just like how a forest function.



NORMAN 'AZAM



'HARDWORK BRINGS YOU SUCCESS'

CONNECTIONS  
THE GREEN COMMUNITY

The Green Community aims to promote communal interaction among Kranji-Marsiling residents through green and nature learning. The residents will be able to bring the knowledge home and a greener community in Kranji-Marsiling blooms.



Multi-Purpose Plaza



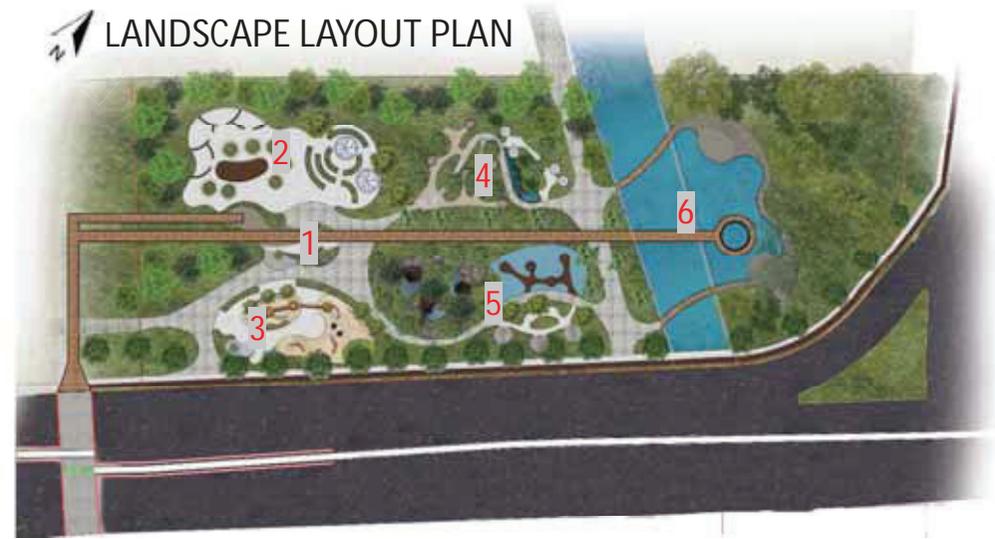
Sensory Garden



wetland sanctuary



LANDSCAPE LAYOUT PLAN



1 Entrance 2 Playscape 3 Walkthrough garden 4 Plantopedia 5 Wetland sanctuary 6



The site (Focus Area 2) is located in the Education Zone of the masterplan. Therefore, a design that curates a learning experience must be emphasised.

Design Aim: to rejuvenate the area from Kranji-Marsiling MRT by connecting new and existing developments along the track (&beyond) with public space network to strengthen community bonding.

Design Objective: to provide communal interaction for Kranji-Marsiling residents through green/nature learning.

Design Strategies

Community interaction

- Community Plaza
- Urban Farm
- Playscape
- Sensory garden
- Hanging Garden

Nature/Green learning

- Constructed Wetland (ABCW)
- Enhanced Waterway (ABCW)
- Playscape
- Urban Farm
- Aquaponics
- Green Gallery

- Sensory garden
- Therapeutic garden
- Hanging Garden

## FEATURE SPACE – HANGING GARDEN



Users will be **educated** about the types of hanging element for plants such as hanging baskets and trellis. By integrating hanging baskets into this space, the **community** be **exposed** about it and are able to apply it in their own homes where unique way of planting will be created. This allow more people in the community to be green.

Feature element: The Winged Pod

Mimic the shape of the Dipterocarpus seed. Cantilevered in the water to create effect of fallen seed/fruit from a hanging tree. Fused arch into pod to mimic the shape of the wing thus allowing climbers to grow above it.



Arch and frames are made from stainless and composite timber cladding to tackle the cantilever into water .

Cotton steel panels to create interesting way of framing. To create a transitional effect of rusting so that people can feel the difference when they come into the space



Hanging baskets



Melaleuca cajuputi

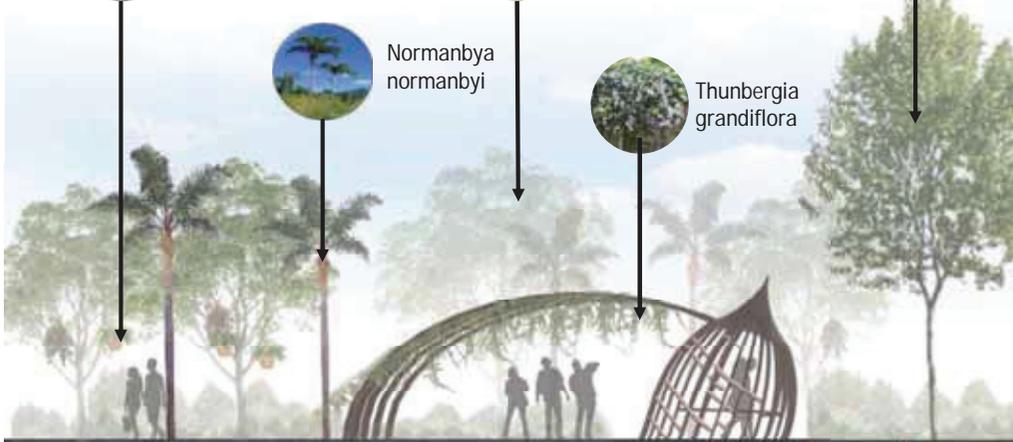
Dipterocarpus Sublamellatus (feature tree)



Normanbya normanbyi



Thunbergia grandiflora



Plant selected creates enclosure and a naturalistic scene due to the lushness created on both vertical and horizontal planes.

## MORE SPACES



### COMMUNITY HUB – URBAN FARM

To tie back the objective of provide communal interaction through nature/green learning, the urban farm will help out the community food supplies. Visitors can **learn** in the urban farm when they choose the produce and **inter-mingling with other users** can happen. Knowledge of growing their edibles in their own homes would be benefitted here.

### WALKTHROUGH GARDEN – THERAPEUTIC GARDEN

Here, users are **educated** on how plants can help improve our mind and the quality of life. Medicinal plants are placed here to educate visitors too. This space will be a **tranquil retreat** for visitors. Fine textured and light shade of green such as Conocarpus erectus, Leptospermum branchyandrum and Imperata cylindrica and more are used to achieve the intimate and serene ambience.



### PLANTOPEDIA– FLOATING FIELD

To tie back the objective of providing communal through nature/green learning, visitors will be embarked on the **benefits of aquaponics**. Enhance the aquaponics experience by floating them on water. Fish such as koi are in the aquapond since they are often highly successful because they are well adapted to aquaponic setups. They have a long-life span and easily live and breed within the system.

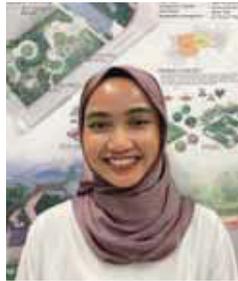


### PLANTOPEDIA– GREEN GALLERY

Emphasises on sustainable art as the painted works are from natural plant dye. Users can paint in the pods provided and frame their work here. The place will set as a **gallery/showcase** to visitors and this provide inclusivity in the community since the work of arts from a lay men can be showcased here.



NUR AAINA HISHAM



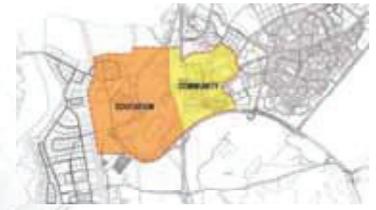
**'TRUST THE TIMING. EVERY SITUATION & EVERY EXPERIENCE WILL LEAD YOU TO EXACTLY WHERE YOU ARE SUPPOSED TO BE'**

CONNECTIONS  
THE URBAN NATURE

We live in an urban country that is filled with a density of human structures such as houses, commercial buildings, road. But where is nature? Hence, due to Urbanization, industries in Singapore are starting to develop new ways to increase their local food production in an urban setting. Kranji is known for its industrial revolution and one of it is Agriculture. There are more than 45 farmers in Kranji alone. Therefore, the proposed Northern gateway will be an experiential trail that educate users on the growth of urban farming.



## LANDSCAPE LAYOUT PLAN



The site (Focus Area 2) is located in the Education Zone of the masterplan. Therefore, users should be able to get an educational experience in this zone.

## DESIGN CONCEPT

The Urban Nature is a representation of the growth of Urban Farming. What makes it successful? BEES. They play a big role in agriculture. They pollinate crops and increase yields. Without pollinators these crops could all but disappear from our lives.

Therefore, each space is an active space that will allow users to keep moving and take in educational experience that they will gain throughout their journey.

## DESIGN OBJECTIVES

To create an educational experience and community bonding within a sustainability environment

## DESIGN STRATEGIES

### Sustainable:

- ABC Water
- Hydroponics system
- Solar Panel
- Recycling techniques/ Materials
- Stormwater management

### Interactive:

- Learning Discovery
- Sensory Garden
- All "Green" Play
- Water Play

### Educational:

- Boardwalk
- Therapeutic garden/ The arboretum
- All "Green" Play
- Community Garden
- Garden Workshop



Hydroponics Garden @  
Nature's Artistry

Sensory Garden @ The  
Living Aerial

Foliage Garden @ Nature's  
Artistry

### THE ARBORETUM

A space with a viewing platform that allow users to look at the enhanced ABC water. To make use of the existing trees on site, Arboretum means it is a garden that is devoted to trees. Therefore, it is surrounded by tall trees, covering the view from the outside world.



### THE LEARNING DISCOVERY

A space where users are exposed to the traditional farming method. This will allow them to appreciate the struggle and effort it takes for the production to be successful.



### THE LIVING AERIAL

It is a therapeutic garden where users can relax and take a breath after experiencing the traditional way of farming. As a bee, they need to go back to their hives to re-charge before embarking on their journey again. Same goes for a human being. A bio pond to provide a sense of soothing and tranquil ambience and a sensory garden to ignite their senses with floras and faunas.



### THE SENSORY @ THE LIVING AERIAL

Filled with fragrant plants and coloured flowers to enhance the space and to strengthen the users' senses. This will help users to interact and be closer to nature. Not only that, it also allows users to appreciate and know how important their physical and mental health is.



### THE NATURE'S BLOOM

The nature's bloom is where they bloom to become what or who they truly are. An All-Green Play, that allows users to interact with nature.



### THE NATURE'S WALK

Ever need to slow down the time? The nature's walk is where users can take a step back and slow down their journey by interacting with their loved ones or take a stroll while enjoying the view of array of colourful plantings while being enclosed with tall trees.



### THE LIVING AERIAL

A breathable space for users to go to after having a strenuous activities. Covered with lush greenery for users to indulge and embrace with nature

SITI NUR UMAIRAH  
BTE ROSTAM



'PROGRESS OVER PERFECTION'

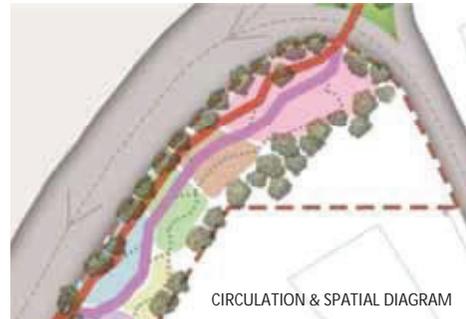
CONNECTIONS  
THE NATURE TERRACE

The designed Memorial Park embodies the awe, Site located near to the riding school in between Kranji and Marsiling. The design aim is to highlight the values of equine therapy and raise public awareness to mental and physical wellness

The design objectives is to stimulate the senses through interaction with nature. The site falls under the social and interactive zone in the masterplan zoning. It is divided into various spaces such as the Water Venture, Misty Walkway, Healing Garden, Native Garden, Terrace Walk and Play Area.



MASTERPLAN ZONING



CIRCULATION & SPATIAL DIAGRAM



LANDSCAPE LAYOUT PLAN

CONNECTION: THE NATURE TERRACE



WATER VENTURE

A feature space which- reflects on the secondary title, The Nature Terrace. The space consists of massive planting and water feature which are integrated in different levels to form a consistent topography and to achieve the terracing affect.

Through this space, users will visually interact with the surrounding nature such as the cascading water feature which creates a therapeutic ambience. Pavilions are provided to allow users to rest and create social bonding.

The difference in levels also increases the physical wellness of users and encourages them to climb up and move around from one point to another.

## CONNECTION: THE NATURE TERRACE



### TERRACE WALK

A space which forms different elevations, similar, to the space Water Venture whereby there are massive plantings and resting area integrated together.

Users are able to sit and relax under the natural shade after a long walk.

### PLAY AREA

An open space which will gather users and allow them to experience various forms of play, using their own creativity and also improves their muscle tones. Thus, this increases both their mental and physical wellness.



### SECONDARY ENTRANCE

An open space which consists of water feature and tall significant trees providing shade for users, welcome users and will spark their curiosity to explore the different spaces further.

## CONNECTION: THE NATURE TERRACE



### MISTY WALKWAY

A passive space whereby it is an elevated pathway with terraced planting and distinct frame to lead users to the next space, Healing Garden.

With the mist surrounding the walkway, users will experience an interesting setting which distracts them away from reality.



The sectional elevation consists of spaces such as the Water Venture, Misty Walkway and Healing Garden.

### NATIVE GARDEN

. A space which allow users to discover and improve their senses through visual interaction, touch and scent the smell of the various local plants.

The shelter is provided for users to conduct activities such as the horticultural therapy which enhances their mental and physical wellness.



VALERIE TAN  
HUIHUI



'WHATEVER YOU DO,  
ALWAYS GIVE 100%. UNLESS  
YOU'RE DONATING BLOOD.'

CONNECTIONS  
THE CLIMB TO WELLNESS

Emphasizing on the importance of mental and physical wellness, "The Climb to Wellness" aims for users to rejuvenate their well-beings through the interaction of nature.

To represent the steps needed to achieve good mental and physical wellness, the concept of terracing is implemented into the design.



Starting Seeds (Main Entrance)



Terracing Garden (Community Garden)



Crown Sanctuary (Sensory Garden)



Butterfly Haven (Butterfly Garden)



Overview of Edible Sanctuary (Edible Garden)



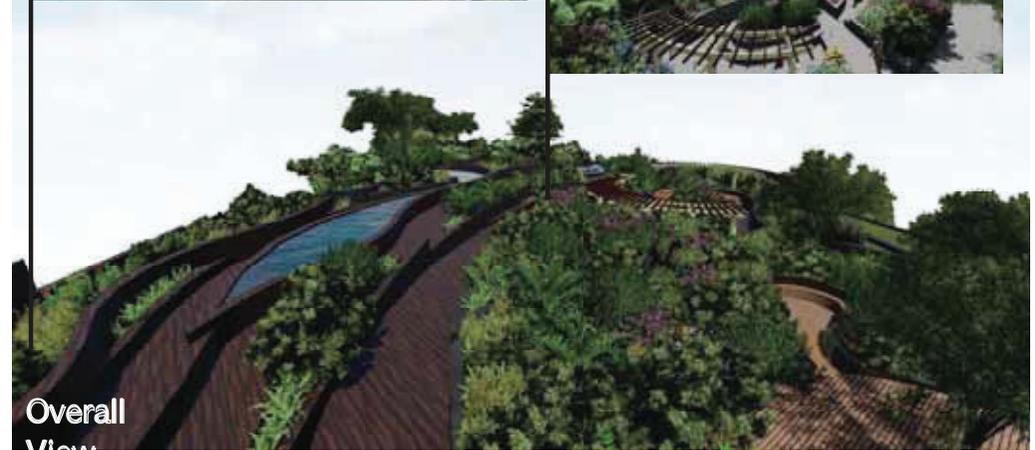
**Design Objective:**  
To raise awareness of the importance of mental and physical health.

**Design Strategies:**

- Integrate natural elements (e.g., water, trees, plants) to create a sense of connection and well-being.
- Provide a safe and accessible space for users to interact with nature.
- Integrate a variety of plants and flowers to create a vibrant and colorful environment.
- Integrate a variety of seating options to provide a place for relaxation and reflection.
- Integrate a variety of lighting options to create a warm and inviting atmosphere.



Overview of Crown Sanctuary (Sensory Garden)



Overall View



**Floating Sanctuary** is a garden suspended above ground whilst surrounded by lush and dense softscape, creating the illusion of a floating therapeutic garden. Secluded from the other spaces due to its lush greenery, the peaceful ambience creates a suitable space for users to be physically and mentally comfortable as well as creating social connection. Connected to the skytrail in the terracing garden, all users can access with ease too.

Overview of Floating Sanctuary (Feature Space)



Softscape Palette:



Stepping further into the garden leads to two small platforms of lower level. These are placed to create a different ambience with the use of different planting palette, consisting of taller and finer greenery.

Ultimately, the change of softscape palette depends on the varying height of the terracing planters to maintain the illusion of a floating garden.



Floating Sanctuary (Floating Therapeutic Garden)



**Design Objective:**

To raise awareness of the importance of mental and physical health

**Design Strategies:**

- 1. Create a sense of connection between the garden and the skytrail.
- 2. Create a sense of connection between the garden and the skytrail.
- 3. Create a sense of connection between the garden and the skytrail.

**Softscape Palette:**



**Hardscape Palette:**



Floating Sanctuary



Floating Sanctuary is a garden suspended above ground whilst surrounded by lush and dense softscape, creating the illusion of a floating therapeutic garden. Secluded from the other spaces due to its lush greenery, the peaceful ambience creates a suitable space for users to be physically and mentally comfortable as well as creating social connection. Stepping further into the space leads up to two smaller platforms on a lower level. Connected to the main platform, these smaller platforms are strategically placed to create a different ambience with the use of different planting palette that consists of taller and finer greenery. In a whole, the planting palette will vary depending on the height of the terracing planters to maintain the illusion of a floating garden. As the main platform will be used as a viewing deck for users while the smaller platforms are used as seating area for users to relax on. Connected to the skytrail in the terracing garden, all users can access with ease too.



**Butterfly Haven**

Butterfly Haven is a special area with profusion of flowering plants and lush greenery that are suitable for a tropical butterfly garden. Some significant plants that attract butterfly are Red Pigeonwing Plant, Eggplant Star Garden and Indian Holly are used. Addition of not only biodiversity and visual interest to site, it also benefits the improvement of mental health.

**Terracing Park**



As users move through the site, they can observe to enter the terracing garden (Terracing Park), which promotes exploration of site through viewing platforms. Lush yet fine greenery are interspersed throughout the garden to create an experiential walk-through for users.

**Crown Sanctuary**



Upon entry to the Crown Sanctuary (Therapeutic Garden), users are greeted with a garden enclosed with plants of various textures, colours and fragrances planted in varying heights of planters, adding visual interest to the garden. Users are also able to interact with nature through the senses, allowing the revitalisation of mental health while indulging in the beautiful sensory walk-through.

**Starting Seeds**



Starting Seeds is an entrance that greets the users with vibrant and tropical themed plants, creating a welcoming ambience. Partially covered with both softscape, the greenery captures the curiosity of users to explore and learn more about the site. With two systems of seating through two different pathways, users choosing to enter the Terracing Park or the Crown Sanctuary (Therapeutic Garden).



YEO HUI HUI



'IF IT MAKES YOU HAPPY, IT IS NOT A WASTE OF TIME.'

CONNECTIONS  
THE JOURNEY THROUGH TUMULTUOUS TIMES

Connections: The Journey through Tumultuous Times' overall concept takes users to go through 'loud and confused times' within the spaces in this memorial garden. Their journey ends at the museum's basement level which brings a contrast between loud and noisy from before and then ending with peace and serenity from the basement levels and surrounding planting.



Overall View



Layout Plan

The objective is to curate an educational and empathetic journey experience for the community by manipulating the circulation and leading users through active and passive spaces.

Swale Garden  
(Active)



Maze Garden

Landform Garden

Use of circulation path to lead users to specific spaces



Entrance Walkway



Garden of Remembrance



Prisoner's Labyrinth

Beginning of journey, long paths (Active spaces, make users walk)



Land of the Fallen



Land of the Fallen

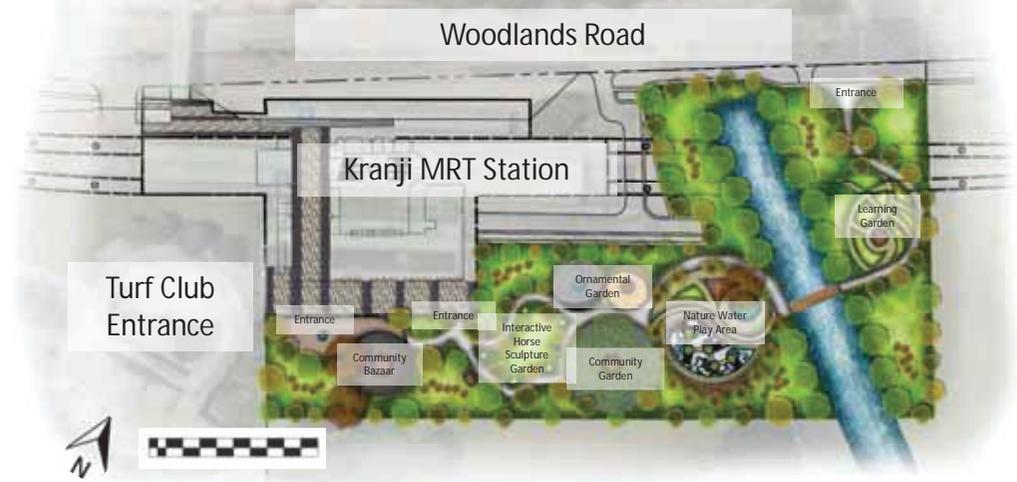


Freedom Sanctuary (Museum Entrance)



Gradual peace and serenity (Resting areas available)

# Landscape Layout Plan



**Design aim:**  
To connect people with nature by carrying out different activities, thus cultivating an active lifestyle.

**Design Objectives:**  
To promote active lifestyle-based spaces for communities.

**Design Strategies:**



YEO YEE XUAN



**'SUCCESS IS NOT FINAL;  
FAILURE IS NOT FATAL: IT IS  
THE COURAGE TO  
CONTINUE THAT COUNTS.'** –  
WINSTON S. CHURCHILL

CONNECTIONS  
FLOW OF KINETIC

Kinetic involves and produces movement. Therefore, the design intention is to bring in different kind of energetic activities for visitors to experience in the flow of the landscape.



# Nature Water Play Area



Day view



Night view

It is a fun space for children to play with water and get closer to the nature. The living playhouse add fun experience for the children to play and explore around the area. They can also observe where the water flow by changing and diverting the metal sluice gate. It is a sensory extravaganza and sensational learning experience for the children feel the wetness, hear the splashes and sprinkles, see the bubbles and waves.



Day view



Seating Area

Water Play Area and Living Playhouse

# Connection

Flow of Kinetic  
 Fun • Active • Energetic • Interactive • Passionate • Learn  
 Kinetic involves and produces movement. Therefore, the design intention is to bring in different kind of energetic activities for visitors to experience in the flow of the landscape.

Design aim: To connect people with nature by carrying out different activities, thus cultivating an active lifestyle.

Design Objective: To promote active lifestyle based spaces for communities.



Landscape Layout Plan



Nature Water Play Area



Seating Area

Water Play Area and Living Playhouse

Yeo Yee Xuan

WAEW YIP WEI WEN



'TRUST THE PROCESS.'

CONNECTIONS  
BLOOMING PATCH

Blooming Patch is a landscape that aims to promote and provide healthy lifestyle-based spaces for the communities. It has walking trails with different promotional elements to create fun and interactive spaces. As well as thematic gardens with plants that triggers the 5 senses through interaction with nature.



The Peak



Butterfly Garden



Serene Walk



Edibles Garden

**SERENE WALK**

To Meeting Household

- The therapeutic garden provides a sense of privacy and safety through it's enclosed spaces with lush and dense greenery. This garden has softscape that triggers the 5 senses which will allow users to retreat and relax through their interaction with nature.
- The scent of plants may evoke memories by engaging visitors' sense of smell. Fragrance can be immediate through the perfume of flowers or released through rubbing/crushing of leaves.

**PLANTING SELECTION**



**Therapeutic/Sensory zone**

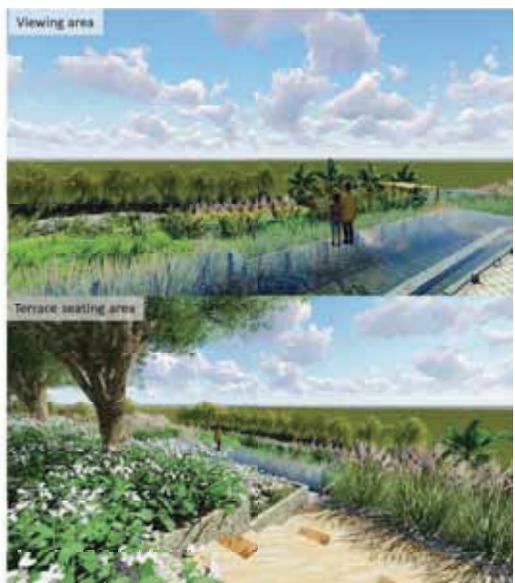
Buddleja x weyeriana	Etiogaia elatior	Leptocarpum nudatum A.K. Bean subsp. subvum	Gardenia mutabilis Remy ex Blume	Cosmos spinosatus Cav.	Cedrela verticillata

- Warm colours like red, yellow and orange stimulate the mind and excite the senses while cool colours such as blue and purple create a calming experience.

LIGHTING PLAN



THE PEAK



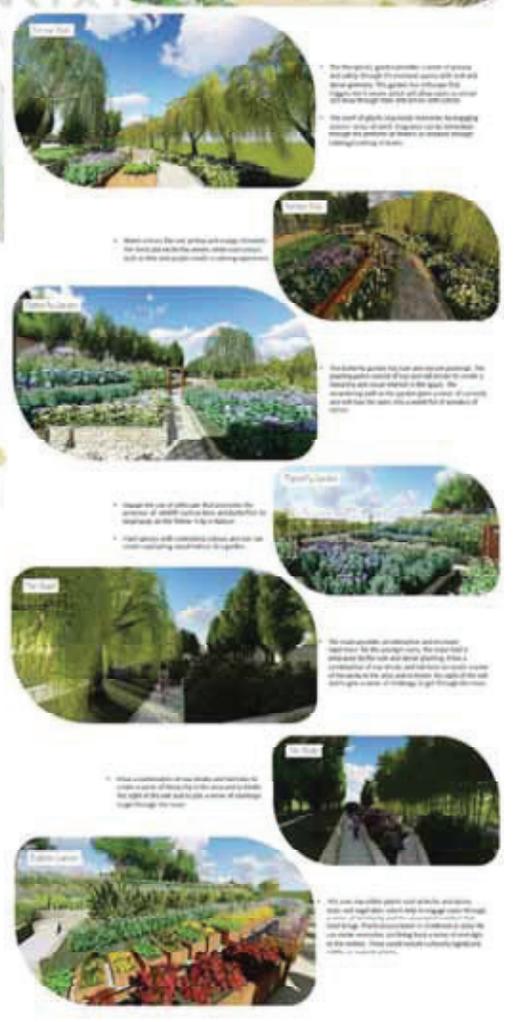
PLANTING SELECTION



Terracing zone



This zone has naturalistic planting theme, plants with interesting leaf textures can be used to surprise and fascinate visitors. Plants with soft and carefree habit ornamental and native grasses also fit in well with a naturalistic garden.



ZHENG KANG



'DON'T LOOK FOR NEW LANDSCAPES, USE NEW EYES TO SEE WHAT IS ALREADY THERE.'  
 – GERALD CAUSSE

CONNECTIONS  
 WATER STORY

Water Story is a landscape that uses the ABC water technologies and is tied in with the Kranji Newwater Plant and the Sungei Buloh Natural Reserve to tell the full story about the water's journey in nature, technology, and urban. With the opportunity of all three of the key water spaces gather around the Kranji area, it is possible and suitable to make it into a site that allows the water to 'speak' to the visitors.



CONNECTIONS

Design aims to rejuvenate the area from Kranji MRT ← → Marsiling MRT by connecting new & existing developments along the track (& beyond) with public space network to strengthen community bonding.

Design objectives

- To provide an educational area for the visitor to learn about ABC water features.
- To green up the existing feature in the area to enhance the greenery and ecology.
- To educate visitor basic knowledge about the mangrove ecology.
- To create a resting point for the visitor before directing them to the old railway corridor.
- To encourage healthy lifestyle and exercise among the visitors

Design strategies

- Sedimentation bay + surface flow wetland + rain garden
- Green canal + floating island + forest walk + rain garden
- Resting area + mangrove entrance
- History of railway
- Water play + resting area





Entrance Plaza Feature

Open plaza with various resting points provided to act as a temporary resting area for the visitor who passes by the site. The open area in the center also allows gathering to be held before moving on into the site. Users could also choose to go to both sides of the plaza to learn about different ABC water features.

Turning the existing canal into a more ecofriendly space with the small island to act as a peak stop for the birds and wildlife while allowing people to see them bring humans and nature close to each other.



Forest Walk



ABC Water Educational Zone (Entrance)

The arc will be cover by hanging creepers to create a feeling like a green curtain to block people's view towards the ABC water education zone to spark the visitors' interest to further explore the site and learn about ABC water.

The urban farm is the place where people get to use it as a community farm but with the rain harvested acting as the main water source for irrigation to get people to involve in agriculture will learning ABC technology.



Urban Farm



THE DROP is a water droplet like pergola constructed with a darker color timber to symbolize the "black" water dropping into the bio-pond. The user could see how the "black" water is being filtered through the statues and also knowledge boards in the zone.



The DROP



Water Play Area

A traditional hand pump will be located at the site and the children can play with it to make the water shout up in the fountain and the water will follow the designated canals on the ground and go into the rain garden to allow them to see how a rain garden works. The water will be also collected in the storage tank under the rain garden for further use.

The paths is been surrounded by hedges and also butterfly attracting plants to create a more enjoyable and pleasant journey for the visitor in the site while the hedges also act as the natural barriers to the rain garden to allow the wild life there to have a more peaceful environment.



Water Educational Trial



Rain Garden Viewing Deck

The statues of the water in the different stage will be allocated along the main circulation of the area, the statues simulate how the water is been clean from 'black' water to clean water we saw in our daily lives through the filtration of plants, this is also to provide a more lively scene and journey to the visitors to improve the user experiences on site.





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