CONCEPTUAL DEVELOPMENT BOARD

Memorial Zone

Exploration Zone

Innovation Zone

Travel Zone

Goal

- To extend indoor exhibition and activities to outdoor spaces, integrated with landscape setting to create an informative astronomy outdoor gallery in National Planetarium, Kuala Lumpur.

Ancient Astronomy

Stonehenge

The early cultures assembled massive artifacts that likely had some **astronomical purpose**. In addition to their ceremonial uses, these observatories could be employed **to determine the seasons**, an important factor in knowing when **to plant crops**, as well as in understanding the length of the year.

Mesopotamian Astronomy

Ziggurat

The Mesopotamians used ziggurats as observatories. Each of the **seven terraced levels represented one of the wandering celestial objects** - the Sun, Moon and planets. The methods were based on their discovery of **repeating in the motions of celestial objects.**

Egyptian Astronomy

Pyramid

The Egyptians developed and used astronomy entirely for practical purposes, such as **developing a calendar** to be used for **predicting the Nile flood** and were aligned with **respect to the cardinal points.**

Early greek Astronomy

Many personalities have appeared in this era like Pythagoras, Socrates, Aristotle, Alexander the Great, Archimedes and others which were well-known in their involvement in ancient history.

Chinese Astronomy

Caracol

Some of the windows in the upper part of the tower were **aligned to the sunset at the equinoxes**. Others may have aligned to the most northern and southern **setting points of Venus.** The entire building is oriented to face the **sunset at the summer solstice.**

Islamic Astronomy

The Islamic astronomers collected, translated, and commented on the works of the ancient astronomers and passed their astronomy on to Christian Europe. In doing so, Islam exerted a powerful influence on the rebirth of western astronomy.

Renaissance Astronomy

All of this well-known people had came out with their own new knowledge such as mathematic, geometry, trigonometry, navigation and so on and this are still in use until today.

Modern Astronomy

The people in this era exploit the information and knowledge from all of eras and design many technologies to travel beyond the Earth's atmosphere and get the data from outside of Earth's surface.

Design Concept

"EVOLUTION"

The word refers to a record of travel to explain about the evolution of astronomical time-line from one era to another era. This concept is highlighting the study about field of astronomy to create a setting which used as astronomical purpose from ancient period to modern technological era. These progresses are translate in proposal spaces to generate a continuity in spaces which able to educate users about astronomical use in different epoch.

Design Approach

- Spaces
- Circulation
- Activities

PROPOSED ASTRONOMICAL OUTDOOR GALLERY AT NATIONAL PLANETARIUM, KUALA LUMPUR

ASTRONOMICAL OUTDOOR GALLERY

Integration of indoor and outdoor with experiential education approach.....

Name: Mohd Fahmi Bin Mohtar
I.C. No: 831204-08-6027
Metric No: AB 020105
Studio Master: P.M. Dr. Ismail Said & Mr. Abd. Rahman Tafahomi

Key Plan
NTS

Location Plan
NTS

Site Plan
NTS

PROPOSED ASTRONOMICAL OUTDOOR GALLERY AT NATIONAL PLANETARIUM, KUALA LUMPUR

ASTRONOMICAL OUTDOOR GALLERY

Integration of indoor and outdoor with experiential education approach

MODERN ERA PARK

- Present the beginning of technology innovation to bring people travel beyond the Earth's atmosphere.
- Designed seem like shuttle and launching platform to represent the transportation used to explore the celestial objects in closer look.

Lunar Gallery

Fulfilled with exhibition about astronomical science and the users also can observe the constellation using giant telescope with better condition.

Galaxy Platform

Black marble used as pavement finish to highlight the line between each marble to show the movement of shuttle through galaxial net.

'The Mist'

Water element installed with mist outlet to represent the smoke from the shuttle when it was launched. People can experience the water fountain and play with time-set jumping jet nozzles while viewing Kuala Lumpur city.

Interactive Sundial

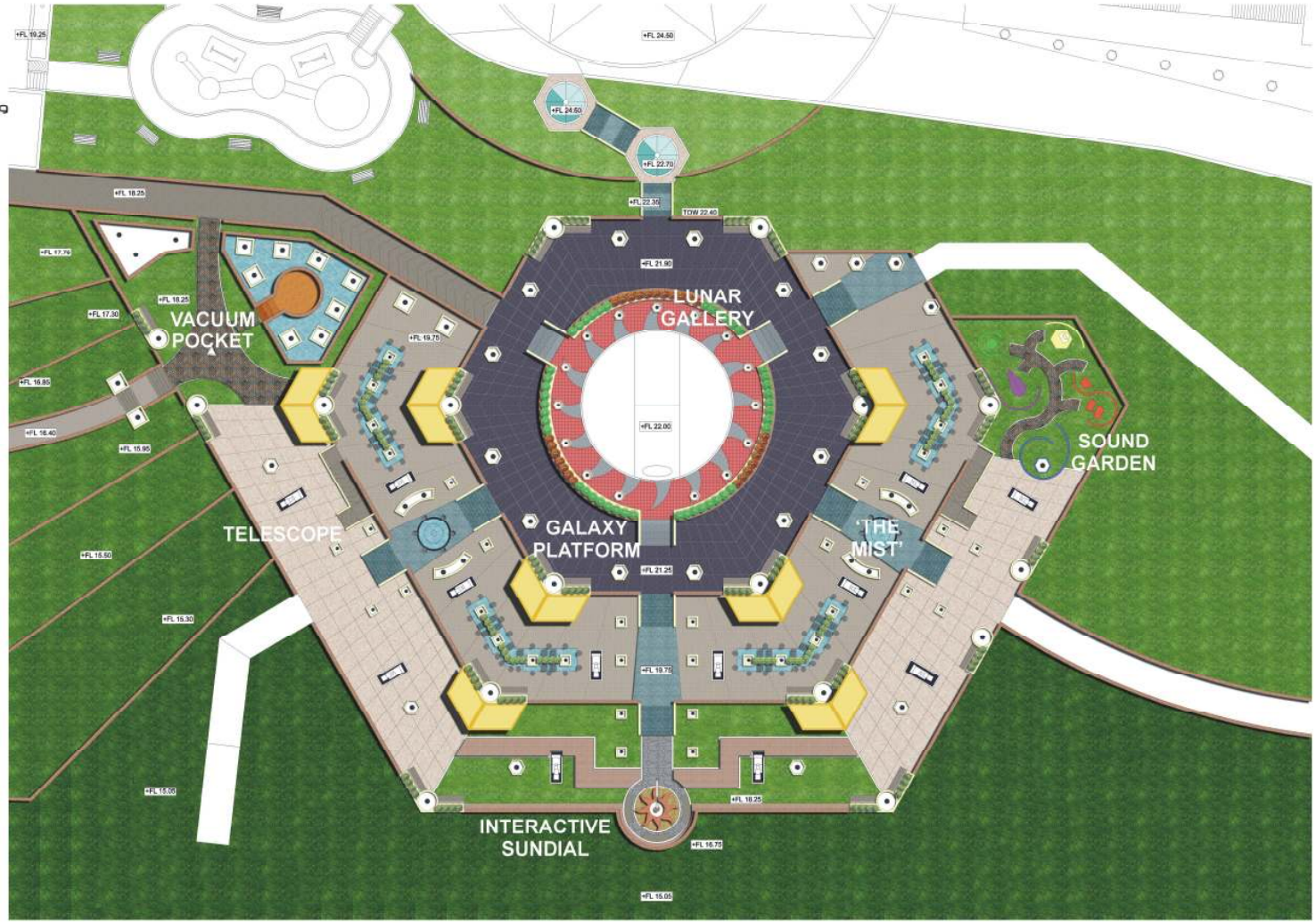
People can also learn how to check the time by historical interactive sundial. The users also can compare the effectiveness of the instrument and view vista towards the Lunar Gallery.

Sound Garden

High and curved wall use to direct ventilation of the wind to create natural sound to give an opportunity to the visitors learn about the kinetic force.

Vacuum Pocket

This pocket space planted by dense tree and surrounded by water feature to separate the pocket space with platform. The users can experience the vacuum feeling in the closed area and noise of water sound to make the user feel like floating.



DETAIL AREA PLAN

SCALE 1:150

HARDSCAPE palette

Interactive informative kiosk with touch screen at second and third level of platform.

Informative seating at Galaxy Platform to show an information about space.

Bollard light with seating at 'The Mist'. It also can function as a boundary.

SOFTSCAPE palette

'Archontophoenix alexandrae'
Alexander Palm

'Peltophorum pterocarpum'
Yellow Flame

'Lagerstroemia floribunda'
Bungor Raya

'Filicium decipien'
Kiara Payung

'Zoysia matrella'
Carpet Grass

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MODERN ERA PARK

SECTION X' - X"

SCALE 1: 50

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ASTRONOMICAL OUTDOOR GALLERY

integration of indoor and outdoor with experiential education approach

MODERN ERA PARK


Hubble Observatory


Sundial Instrument


Observation Activities


Black Marble Paving


Outdoor 3-D Kiosk


Exhibition Panel

SECTION Y' - Y"

SCALE 1: 75

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