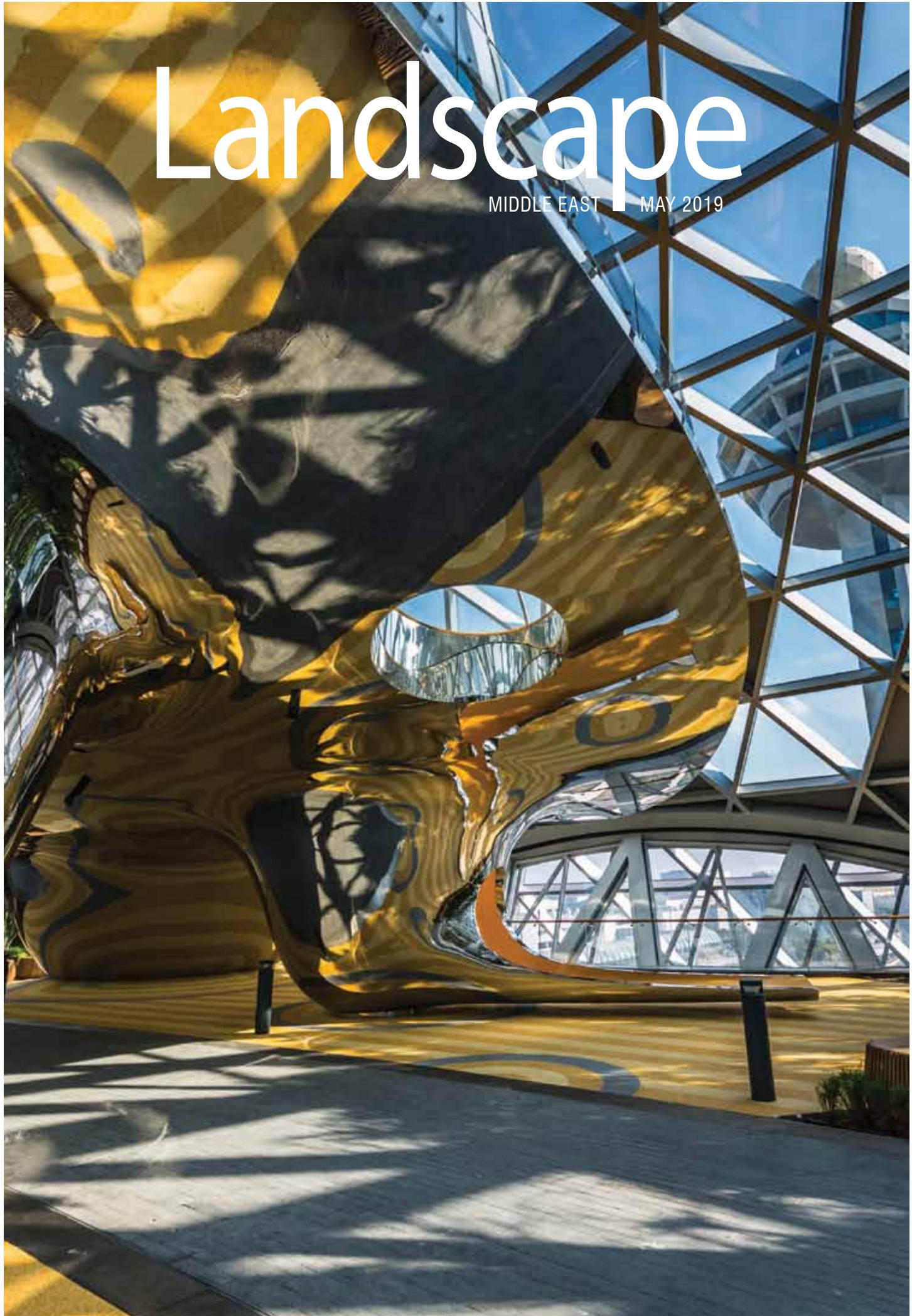


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EDITOR'S NOTE

Climate change has been at the top of the global news agenda lately and rightly so. From mass protests across Europe, Australia and the UK by the 'Extinction Rebellion' that saw parts of London brought to a standstill for more than a week, and an impassioned plea from Sir David Attenborough to act now and end climate change, ahead of the release of his new series 'Our Planet' on Netflix, it's becoming more and more difficult to ignore the climate crisis that is affecting us all.

In this month's issue, we look at the issues Egypt is facing now and in the future due to climate change and explore how urban planners can design for the future to protect its citizens and prevent them from having to migrate and leave their homeland to survive. (page 22)

Landscape Architect Jean-Claude Melone returns to Landscape as he continues to evaluate how sustainable his past projects have been. (page 18) We also have exciting projects to showcase from the Singapore and India, as well as messages from local Landscape suppliers and architects.

I hope you enjoy the issue!

John Hampton

The opinions and views contained in the articles in this publication are those of the contributors and not necessarily of the publishers. The publishers cannot be held liable for any mistake or omission enclosed in the publication.

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Plans to double green areas in coming years; to add a large park

Dubai Municipality showcases city greening experience at Expo 2019 Beijing



During the inauguration of the UAE Pavilion at Expo 2019 Beijing

Dubai Municipality is presenting its experience in the field of landscaping and spreading green patches and its efforts to achieve balance in reaching the city's strategic goals in this area for visitors to the UAE pavilion at Expo 2019 in Beijing, which is held under the slogan, "Live Green Live Better" from 29 April to 7 October 2019.

A number of Dubai Municipality officials are providing visitors with an explanation of the various services provided by the Municipality in the field of agriculture and development under the slogan "greening the desert" and highlighting the future directions in adopting green development and horticulture as a way to progress and achieve the welfare of the society.

Mansour Ibrahim Al Mansouri, Director General of the National Media Council, in the presence of Dr. Ali Obaid Al Dhaheri, UAE Ambassador to the People's Republic of China, Dawoud Al Hajri, Director General of Dubai Municipality, Dr. Rashid Khalfan Al Nuaimi, Commissioner General of the UAE Pavilion, Najib Al Ali, Executive Director of Expo 2020 Dubai and a number of diplomats and senior officials, inaugurated the UAE pavilion at Expo 2019 Beijing.



"This participation is a reflection of the leadership's vision to enhance the pioneering position of the UAE at all levels and to highlight the efforts exerted by the Municipality to achieve the sustainability of the agricultural sector and also to present the achievements in this field, which contributed to the transformation of the desert into green oases, taking into account the achievement of sustainability standards in their projects, as per the vision of His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai," said Al Hajri.

He also expressed his pride and honor about the patronage of the event by the Municipality as the main sponsor of the UAE pavilion participating in this prominent international event, which is specialized in one of the most important areas of concern to all governments and cities in the developed world.

Al Hajri stressed that Dubai Municipality plans to increase the green areas of the emirate in the coming years by planting new trees and adding a large park. "We are focusing on making Dubai greener in the next three to five years, and the area of green space will be more than double. Last year 50,000 trees were planted on the streets of the emirate and we are increasing these numbers," he pointed out.

Speaking at the opening of the Expo 2019 Beijing, the Director General of Dubai Municipality said: "There are many Chinese agricultural companies in the UAE, and this exhibition will increase the presence of Chinese companies in Dubai and the United Arab Emirates. Dubai Municipality is planning to build a large park in the next five years, but we have not decided the location yet. It will be a large park equipped with different types of amenities. We are focusing on making the city greener and improving the environment and air quality in the city."

The area of the UAE pavilion is about 1,850 square meters, of which 80% is a garden and 20% is built area. The pavilion focuses on the UAE's green strategy, its national desert greening project and its achievements and innovations in agriculture.

The UAE pavilion at Expo 2019 Beijing has 36 palm trees, 146 trees of 20 different species, 2,500 individual plants of 10 different species, 5,924 plants of vegetables and herbs, which were cultivated within 6 months.

Al Hajri stressed the Municipality's focus on selecting plant varieties, selecting local plants suitable for climatic conditions of the country and enhancing national identity. More than 15 varieties were planted: Al Ghaf, Sidr, Arak, Marakh, Ramth and Qassia of various kinds, which are relatively resistant to salinity and their water needs are less and are home to many living organisms. Several agricultural projects implemented by Dubai Municipality were presented such as the Al Marmoum Desert Park, Love Lake, the Quranic Park, Zabeel Park, Dubai Frame, Expo 2020 Dubai area, and Dubai Roads. ■

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Ali Al Jassim, CEO - Etihad ESCO

CEO of Etihad ESCO, Ali Al Jassim's Statement on World Earth Day 2019

"We at Etihad ESCO & TAQATI are committed to making this country a better, more sustainable place for us and future generations. Earth Day is one of the biggest and best platforms that allows us to display and honor our pledge. It unites people and activities under one banner and includes global efforts to plant trees, end plastic pollution, fight climate change, save species, promote green schools and communities; and mobilizes people, communities, business and elected leaders to create a greener, more sustainable future."

"The Government plays a critical role in

protecting the biodiversity in the planet and educating the public about the importance of species, biodiversity, sustainable energy in regard to community health and well-being. We support UAE Vision 2021 to achieve a sustainable development that ensures air quality, protect water resources, increase the share of clean energy, and implement green development. We are also proud to announce that we are saving 106 GWH of electricity per annum from our delivered project so far through our efforts to achieve Dubai's ambitious target of 30 per cent reduction in energy consumption by 2030." ■

Dubai Frame wins best leisure tourism project award

Dubai Frame has won the best leisure tourism project award at the MEED Projects Awards in association with Mashreq Bank, where the project won recognition as the national winner in the UAE. The recognition is in line with Dubai Municipality's vision of building a happy and sustainable city through the development of leisure and public attractions.

The award underscores the unique position it occupies among tourist and urban attractions around the world and its exceptional and attractive design that has caught the attention of a large number of visitors to Dubai.

Eng. Talib Julfar, CEO of Infrastructure Services Sector at Dubai Municipality, said: "Dubai Frame comes from the vision of His Highness Sheikh Mohammed Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, to establish Dubai as a global cultural, recreational and tourist destination. We, at Dubai Municipality, are keen to launch unique projects and to highlight the leadership of Dubai in various fields by adhering to strategies and foundations that contribute to achieving the desired objectives."

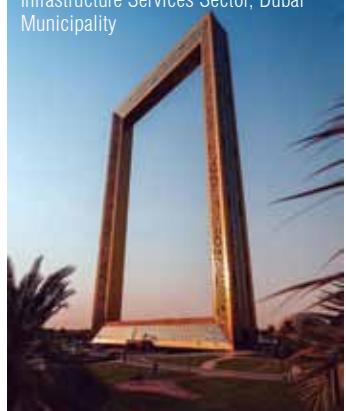
He added that it is a remarkable achievement for Dubai Frame to receive this award as we seek to enrich the city with projects that highlight the city's unique urban development and our belief in the importance of providing excellent attractive tourist landmarks and draw a large number of visitors.

Julfar stressed that Dubai Frame has become one of the most modern cultural and entertainment attractions in the country since its opening in January 2018 and had attracted more than a million visitors from around the world within the first year of its opening.

"It represents a magnificent landmark that captures fascinating scenes of Dubai's old and modern city within one frame to form a bridge linking the emirate's past with its flourishing present. The most important feature of the Dubai Frame is the unique upper bridge, where the visitors' walkway has been designed with smart glass panels to create a transparent floor and as soon as you walk it will give the visitor the sensation of walking on the air and enjoy a unique view of the area surrounding the elevator from the top," he pointed out.

Last year Dubai Frame was awarded the Excellence Award at the Fourth Theme Parks and Entertainment Development Forum and the Best Performance of the Year Award at the Aspire Summit. ■

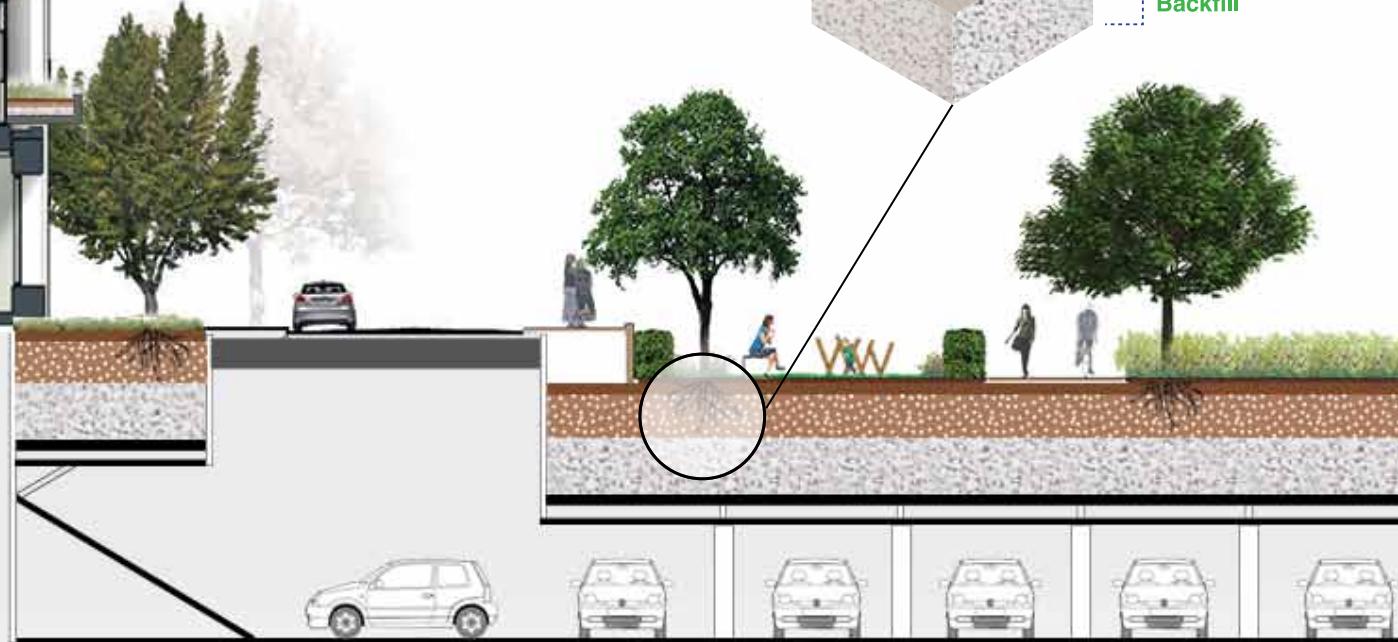
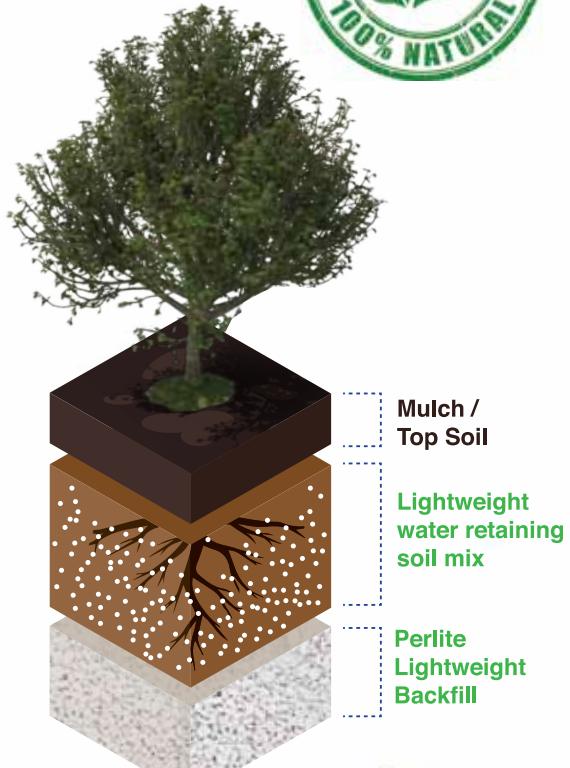
Dubai Frame, Eng. Talib Julfar, CEO, Infrastructure Services Sector, Dubai Municipality



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Ministry of Climate Change and Environment and Fujairah Adventures Launches Fujairah Cultured Coral Reef Gardens

Spanning 300,000 sq m, gardens will comprise 1.5 million coral reef colonies over next five years

The Ministry of Climate Change and Environment (MOCCAE) today launched the Fujairah Cultured Coral Reef Gardens, the largest project of its kind in the UAE, in collaboration with Fujairah Municipality, Dibba Fujairah Municipality and the Fujairah Adventures. In line with the Ministry's strategy to protect the UAE's biodiversity and ensure its sustainability, the project is set to include the cultivation of 1.5 million coral reef colonies over the next five years.

At the launch event on Saturday, April 13, organized by MOCCAE under the patronage of His Highness Sheikh Mohammed bin Hamad bin Mohammed Al Sharqi, Crown Prince of Fujairah and Supreme Council Member, His Excellency Dr Thani bin Ahmed Al Zeyoudi, Minister of Climate Change and Environment, said: "Protecting and preserving the sustainability of the environment and of our natural resources is integral to the legacy of the founding father of the UAE, late Sheikh Zayed bin Sultan Al Nahyan, may he rest in peace.

"The preservation of the country's biodiversity is also a prime area of focus for the UAE leadership today as outlined in the UAE Vision 2021. The Ministry of Climate Change and Environment has put in place multiple programs that aim to carry out the country's national strategy for biodiversity in collaboration with other local environmental authorities in the country."

He added that the Fujairah Cultured Coral Reef Gardens project that spans 300,000 square meters will include the cultivation of 1.5 million coral reef colonies and significantly boost the sustainability of the fish stocks, thereby safeguarding food diversity and food security in the country. "The protection of fish within the coral reefs will allow it to breed and grow. The Ministry is keen on promoting the project as an ecotourism destination. It is also anticipated to encourage the spirit of volunteerism and community work as the cultivation of the coral reefs will depend heavily on the volunteering efforts of the youth."

His Excellency Dr Al Zeyoudi also said that the Ministry has organized several specialized workshops for young volunteers to offer insights on the cultivation of coral reefs and their sustainability. All participants were awarded certificates by the Ministry.

His Excellency Eng Hassan Salem Al Yammahi, Director of Dibba Fujairah Municipality, said: "Under the leadership of His Highness Sheikh Hamad bin Mohammed Al Sharqi, Ruler of Fujairah and Member of the Supreme Council, the Fujairah government has made sustainable development and preservation of our marine

environment for future generations a top priority. In this context, the Emiri Decree No. 1 of 1995 identified three select coastal areas in Fujairah as marine protected areas in order to preserve and grow fish stocks, provide a natural habitat for breeding fish, and protect coral reefs from human exploitation. This was the first project of its kind in the UAE. A protected area in Dadna was created in 2013 as part of the Al Bayt Mitwahid initiative."

He added: "Effective conservation of the marine environment requires the collective efforts of government authorities, fishermen, beachgoers and the tourism sector as a whole. Therefore, Dibba Fujairah Municipality is keen to develop ecotourism and ensure its sustainability through working together with its partners in the public and private sectors to protect the natural wealth of the area. Initiatives in this regard include the installation of artificial caves to deflect underwater currents and provide a safe environment for marine organisms to breed."

In addition, the launch event included a clean-up of select marine areas on the east coast of Fujairah. As part of the clean-up, volunteer divers aimed to mitigate marine environment pollutants in the waters off the emirate's coast.

Spanning an area that equals nearly 60 international football stadiums, the gardens will be home to 1.5 million colonies of coral species, meticulously selected based on feasibility studies and research undertaken by MOCCAE, including Acropora, Symphillia, Pavona, Pocillopora and Stylophora.

The gardens will provide a safe haven for a large number of local fish species as well and boost their populations by protecting their eggs and larvae from predator fish and strong water currents that threaten their survival. As a result, it is set to drive the sustainability of fish stocks, which is among the key objectives of MOCCAE. In doing so, it will contribute to directly increasing the income of the fishermen – nearly 7,000 fishermen in 1,700 fishing boats work in the area.

In other important outcomes, the project will also support research studies in the area on the various types of corals already present, their breeding patterns, and the types that are best suited to the local environment to enable their successful cultivation.

The diving sites in the gardens will contribute to strengthening the UAE's status as a leading ecotourism destination – a prime area of focus for MOCCAE. As part of this priority, the destination will be play an important role in the success of the Ministry's 'The UAE's Natural Wonders' initiative launched in 2018. ■

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Sharjah Ruler Opens Historic Dh 6-Billion Khorfakkan Highway Along with Number of Ambitious Projects

New Road and Key Infrastructure Projects to Give A Huge Boost to Khorfakkan City on The Emirate's Beautiful East Coast

HH Sheikh Dr Sultan bin Mohamed Al Qasimi, Supreme Council Member and Ruler of Sharjah, accompanied by HH Sheikh Saud bin Saqr Al Qasimi, Supreme Council Member and Ruler of Ras Al Khaimah, and HH Sheikh Sultan bin Mohammed bin Sultan Al Qasimi, Crown Prince and Deputy Ruler of Sharjah, inaugurated on Saturday the new Khorfakkan highway. Extending 89 kilometers and with an estimated cost of Dh 6 billion, the new highway is the latest addition to the world-class roads network of Sharjah and the UAE, linking the arterial Emirates Road (E611) in Sharjah with Wadi Shi Square in Khorfakkan.

HH the Ruler of Sharjah and HH the Ruler of Ras Al Khaimah inspected the intersections, tunnels and underground crossings of the new highway that passes through deserts, plains and mountains. The highway includes 14 intersections, and 7 underground crossings along with five pairs of tunnels dug through high mountains. These include Al Sidra Tunnel (2700 metres), which is the longest covered mountain tunnel in the Middle East.

Their Highnesses also inspected Al Rafisah Dam, one of the most important family tourism destinations in Khorfakkan. Spanning a total area of 10,684 square metres, it includes a mosque, outdoor seating area for 300 people, car parking for 45 vehicle, a walkway, and three playing areas spanning 410 sqm.

Foundation Stone

HH Ruler of Sharjah laid the foundation stone for the branch of Arab Academy for Science, Technology and Maritime Transport in Khorfakkan on this occasion. The Academy will grant students a bachelor's degree in applied, theoretical and maritime sciences. He also inaugurated the Khorfakkan Lakes and Fountains Project at the entrance of Khorfakkan. It features 4 lagoons and a number of fountains. It is surrounded by cedar trees in all directions, transforming the place into a massive park.

He also unveiled the Resistance Monument, which bears a historical and symbolic significance for the city's authentic heritage, and is a testament to the steadfastness of the Khorfakkan people in the face of the Portuguese invasion in the early 15th century.

The leaders also went up to the top of the mountain, where the unique Al Rabi Tower sits, which is distinguished by its unique architecture, to unveil the memorial plaque of the tower that introduces the tower and the history of its construction. He also inaugurated "Al Adwani Tower" located on a hilltop near the Khorfakkan Port besides unveiling a memorial plaque for the excavations of the ancient Khorfakkan wall.

"Khorfakkan 1507"

Later, the leaders attended the premiere of the film "Khorfakkan 1507" which is inspired by the book, "Khorfakkan's resistance against the Portuguese invasion of September 1507" authored by HH Sheikh Dr Sultan bin Mohamed al Qasimi. The film has been produced by the Sharjah Broadcasting Authority in cooperation with Get Go Films Ltd. More than 300 people, including Emirati and Arab artists and producers, took part in the making of the historical film. The film was shot on the shores of Khorfakkan and the ancient city. Through the film, HH Ruler of Sharjah aims to promote the idea of Khorfakkan's resistance at that important era of the country's history, and to introduce current generations to the hardship suffered by Khorfakkan and its rebels due to the Portuguese unlawful invasion and occupation.

Key Projects

On this occasion, HH Sharjah Ruler also announced that many more projects will continue to be developed in Khorfakkan to increase the beauty of the city, and provide it with all educational, sports and leisure facilities.

He also promised to develop Shis area along the lines of Al Rafisah besides establishing Khorfakkan Sports City. The projects at the entrance of Khorfakkan will also continue with a new Clock Tower being built along with the Cultural Palace which will include theatres, libraries and halls for all cultural activities, he added. HH Ruler of Sharjah also promised a new corniche project that will extend from Zubarah beach to Luluah areas, and will be named Al Sabiyah Beach. Also he announced that the Khorfakkan branch of Sharjah University would be developed into the Khorfakkan University within 2 years. ■



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2019 SHORTLIST ANNOUNCED FOR Aga Khan Award FOR ARCHITECTURE

Master Jury to decide share of US\$ 1 million prize

The 20 shortlisted projects for the 2019 Aga Khan Award for Architecture were announced today. The projects will compete for US\$ 1 million in prize money.

In January, an independent Master Jury reviewed hundreds of nominations. The 20 shortlisted projects are now undergoing rigorous investigations by a team of experts who visit and evaluate each project on-site. Their reports are the basis for the Master Jury's selection of the eventual laureates. It should be noted that projects commissioned by the Aga Khan or any of the institutions of the Aga Khan Development Network (AKDN) are ineligible for the Award. To be eligible for consideration in the 2019 Award cycle, projects had to be completed between 1 January 2012 and 31 December 2017, and should have been in use for at least one year.

The 20 shortlisted projects are:

Bahrain

Revitalization of Muharraq, offers testimony on the pearl trade in the Arabian Peninsula over the centuries, especially when Bahrain thrived during the 19th century.

Bangladesh

Arcadia Education Project, in South Kanarchor, a modular amphibious structure – incorporating space for a preschool, a hostel, a nursery and a vocational training centre – which is tied down on a riverine site that is often flooded for five months every year.

Amber Denim Loom Shed, in Gazipur, a new design that combines traditional Bangladeshi residential architecture and contemporary elements in a large open space that accommodates machines, a buyers' lounge, a dining space, a prayer area and washrooms.

China

Courtyard House Plugin, in Beijing, a prefabricated modular system first developed as a prototype for installation within courtyard houses in the traditionally Muslim district of Dashilar, which is home to communities who do not have the means to renovate.

Djibouti

Tadjourah SOS Children's Village, a design based on a traditional medina and a layout of narrow streets that maximises shade and ventilation while providing shelter for the most vulnerable in society.

Ethiopia

Warka Water, a prototype first implemented in Dorza, consists of an elegant triangular frame made out of local bamboo that encloses a thin polyester mesh – which captures droplets from high humidity in the air.

Iran

Enghelab Street Rehabilitation, in Tehran, encompasses both the rehabilitation of the façades of 114 existing buildings and the creation of public cultural space between the national theatre and opera house.

Indonesia

Taman Bima Microlibrary, in Bandung, aims to help combat Indonesia's low literacy rates by adding a microlibrary above a pre-existing stage used for community events.

AM Residence, in Jakarta, a design inspired by Indonesian vernacular stilt houses that favour natural ventilation; walls are minimised and windows kept simple for a seamless interior-to-exterior relationship.

Lebanon

Jarahieh School, in Al-Marj, which provides educational facilities for children from 300 Syrian refugee families, creates a hub for community activities and offers the settlement's only secure shelter in the event of snowstorm or earthquake.

Oman

Muttrah Fish Market, in Muscat, which highlights the region's trade and fishing traditions while also catering to Oman's growing tourism industry.

Palestine

Palestinian Museum, in Birzeit, which crowns a terraced hill overlooking the Mediterranean and is the recipient of the LEED Gold certification because of its sustainable construction.

Qatar

Msheireb Museums, in Doha, which incorporates four historic courtyard houses dating from the early 20th century that together comprise an element of the cultural development of downtown Doha.

Russian Federation

Tatarstan Public Spaces Development Programme, a programme that, to date, has improved 328 public spaces all over Tatarstan in areas ranging from major cities to small villages.

Senegal

Alioune Diop University Lecture Building in Bambey, where a scarcity of resources led to the use of bioclimatic strategies: a large double roof canopy and latticework that avoids direct solar radiation but allows air to flow through it.

Turkey

Beyazit State Library Renovation, in Istanbul, the renovation of a 19th century library – housed within a 16th century building – that displays rare manuscripts and architectural heritage.

Uganda

Ashinaga Uganda Dormitory, in Nansana, a residential school that prepares outstanding students from sub-Saharan Africa for entry into higher education.

United Arab Emirates

Concrete at Alserkal Avenue, in Dubai, the major element of a former industrial complex that has been transformed into a cultural hub.

Al Mureijah Art Spaces, in Sharjah, the renovation of five dilapidated buildings that offered the perfect urban and architectural setting for a contemporary art venue.

Wasit Wetland Centre, in Sharjah, a design that transforms a wasteland into a wetland and functions as a catalyst for biodiversity and environmental education. ■



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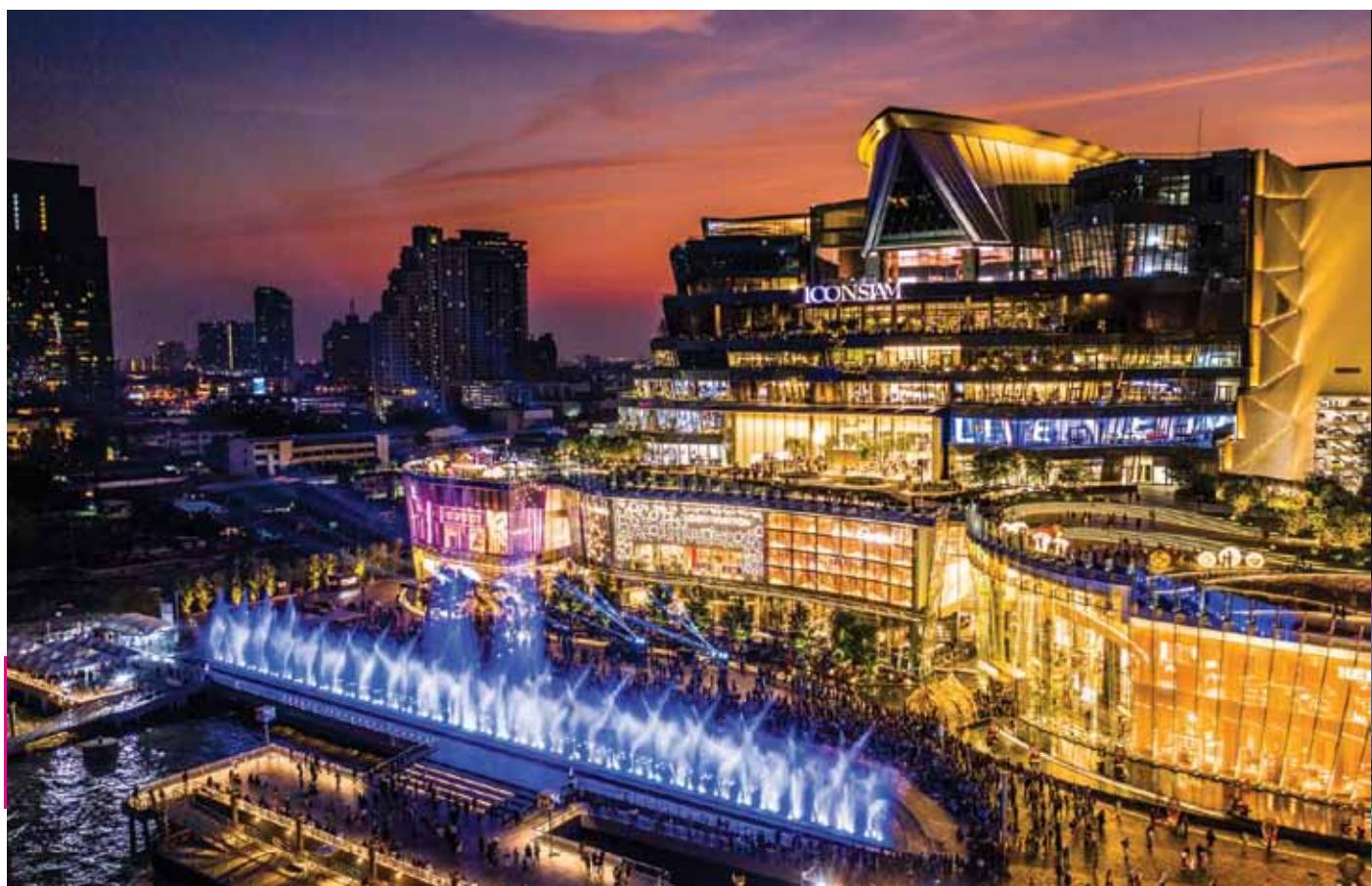


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WATER FEATURE



GHESA'S ICONIC MULTIMEDIA FOUNTAIN

By: Ana Mateus
Senior Landscape Architect
Head of Design at GHESA Dubai

The new multimedia fountain in Bangkok's Chao Phraya Riverside is turning heads and making the headlines in national and international media. This iconic feature is the longest multimedia fountain in South-East Asia and the mall housing it is the fourth largest in the world. This

milestone is the result of the synergy between GHESA and a native Thai corporate leader - Iconsiam Company Private Limited.

The Iconsiam Fountain by GHESA was unveiled in a grand opening ceremony on the evening of 26th January 2019. The big social event was graced by the presence of Thailand's important royal and governmental dignitaries and gathered a huge crowd expectant to see the dancing waters. For the inaugural event, Thai dance and music performances





were specially created to complement the water show. The whole atmosphere was covered with a colourful halo of water streams roaring into the sky, dancing to the beats of music coordinated with laser and searchlights, for the amazement and cheers of the on-lookers. The event was widely reported in national and international media, referring the fountain as the newest wonder added to the list of the 'must-visit places' in Bangkok.

The 211 meters long fountain is equipped with 2D, 3D and 4D robotic jets that spin and spiral at different heights and water shooters that go up to 35 meters high. The multi-dimensional jets can perform multiple and dynamic choreographies, as the cybernetic technology shoots the

fountain jets as fast as 0.1 seconds in the air. All the elements have separated circuits, making their functioning totally modular and independent of each other.

Images and videos of the rich Thai culture and heritage are projected in two large water screens. A laser system and long reach searchlights installed in the surrounding buildings complete the multimedia show, creating an engaging and immersive experience for the visitors.

For this fountain, GHESA chose to embrace a simple yet eye-catching design, in line with the background dotted with skyscrapers and hustle-bustle of the Chao Phraya River. Its privileged location, in an open-air 'amphitheatre' near the river bank, allows it to be appreciated from different points of view. The fountain performs three times a day (at 18:30, 20:00, and 21:00) and the show is free of charge.

As in all its installations, GHESA used state-of-the-art equipment, patented valves, stainless steel 316L, engineered closed circuits for lower water consumption and last generation LED RGB underwater lights. All main components of the fountain are designed and manufactured in Europe.

The Iconsiam Fountain marks GHESA's arrival to the South-East Asian Market and its popularity shows that the goal set by GHESA and the Client of creating an iconic attraction for the local community and for national and international visitors has been achieved with distinction. ■

EDGE WITH EASE

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A project is never complete until the landscaping is installed and no other aspect of a project defines it like the landscaping. The landscaping should be clean, sharp and well defined. Sure-loc Edging Corporation, an American manufacturer, understands these facts and produces only professional grade aluminum edging.

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Sure-Loc Aluminum Edging incorporates both beauty and science. With its seamless connections, deep grooves to withstand frost heave, and unmatched quality, Sure-loc edging can boast superior performance. Sure-loc has patent pending end stake adaptors, which slide over the edging to allow staking at any point and dual stakes in the “puzzle-like” locking system allowing for no overlapping joints and added strength. There are extra wide stakes and deep grooves in the edging to ensure the edging stays in place. You design a beautiful landscape; Sure-loc edging can retain your original intent for a lifetime.

Aluminum Edging Benefits:

- Aluminum is strong enough to withstand years of maintenance abuse.
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- It is environmentally friendly, non-toxic & often made from recycled material.
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- The resilient flexibility of aluminum allows for smooth curves and yet straight lines can also be achieved with minimal effort.

Let's get technical...

This is why Architects worldwide specify

Sure-loc Aluminum Edging:

- Fully rigid and grooved design allows edging to retain solid grip in the ground.
- Dual punch out pockets for stakes allows stakes to be driven down in a straight line.
- Wider more rigid stake design will ensure a lifetime of performance.
- Extra long stakes are available when extra depth is required for sandy soil.
- End stake adapters fit like a sleeve over the material that allow for adding stakes at all start and stop points, or provide extra strength in the center sections.
- Dual Stake locking system ensure connection remains permanent.
- No overlapping joints. A Sure-loc connection allows for true crisp lines and an invisible connection.

No compromise on thickness of residential or commercial edging. Sure-loc offers both residential and commercial edging thicknesses as well as different edging heights to fit every application.

Mr. Mujahed who manages the trading division at Desert Group states that Sure-Loc is the leading and preferred choice of all consultants and developers within this region over any other product. Its application in both softscape and hardscape areas in enhancing the aesthetics of outdoor landscape area is second to none and is highly recommended.

This product has been used in several iconic projects in the UAE and other GCC countries,

Abu Dhabi, Presidential Palace, Hidd Al Sadiyat, Yas Island Streetscapes and Louvre Museum

Dubai: Dubai Municipality projects, Dubai Safari Park, Dubai Hills Mall, Public Realm and Expo 2020 are to name a few. ■



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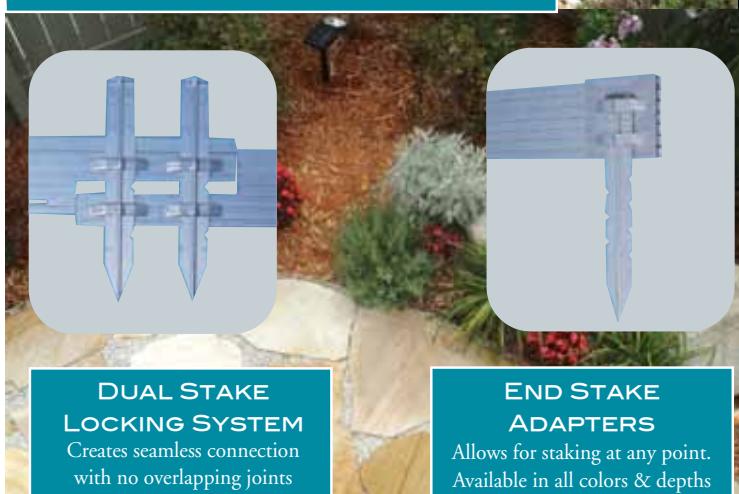
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How Sustainable have we been? *Part 2*

By: Jean-Claude Melone

You know you have been in Dubai a long time when the projects or the buildings you have designed or were involved with have been demolished and replaced. Equally, when the projects' lead Consultants have gone through global mergers, acquisitions, name changes and re-branding or all the above, at least once. In a rapidly expanding City like Dubai, infrastructure and public realm often go through a necessary upgrade after 15 or 20 years. New destinations and larger developments require substantial road widening and increased utility networks capacity.

I have been encouraged by colleagues and friends who have read my March article, to carry on writing in the same vein and to prepare a follow-up part two on the same subject. I have therefore, re-visited two other previous projects to continue to reflect on how sustainable they have proved to be, a decade or more since they were designed, and to draw useful conclusions for potential improvements.

Landscape Architect Jean-Claude Melone continues to reflect on his professional journey with positive self-awareness and a French twist.



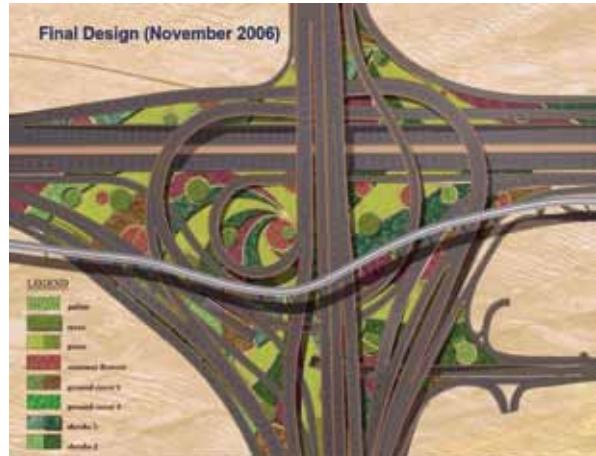
Project No.1: Interchange No.1 on Sheikh Zayed Road

Design: 2006 – Landscape construction: 2016

Design intent: This interchange was often referred to jokingly amongst colleagues, as "the Spaghetti junction" due to its complexity and the number of road lanes crossing over several levels. A "grade separated junction" in highway engineering terms. Based on the theme of the Galaxy, the bold landscape forms draw from the dynamic geometry of the road loops with circular plant beds representing the planets. The iconic Burj Khalifa was still under construction but already overwhelming in the area when designing this landscape scheme. The 10 lanes of Sheikh Zayed Road, North and South bound, run between

high retaining walls on both sides when crossing the upgraded junction thus offering very limited views of the central core landscaped area. With motorists required to concentrate on directions, the flow of traffic and road signs, it was thought that the design should respond to the vistas enjoyed from the large number of high-rise towers overlooking the junction, particularly from the Burj Khalifa viewing deck, a popular tourists' destination at 555m above ground level.

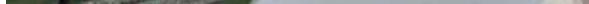
Recent visits positive observations: In the early Nineties, the somewhat more limited palette of plants on offer was essentially suitable for full sun exposure. As such, dark areas under road bridges were often treated with gravel out of concern



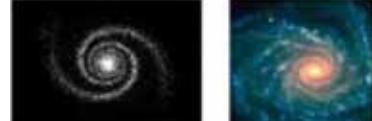
for possible weak plants coverage. With the increasing number of large road junctions, comprising broad bridge structures, at the turn of the century, the addition of "naturalized" shade friendly ground covers and low shrubs such as *Setcreasea purpurea* and *Pseuderanthemum* species in the palette proved to be quite successful. This has been the case for all the shaded areas under the many bridges of Interchange No.1, visible to the traffic at ground level. As such, continuity between permanently shaded plant beds and those that enjoy full light exposure has been achieved.



Lessons learned and advisable improvements: The municipal use of seasonal Petunia in most junctions is high impact and colorful, like fireworks, but provides a very ephemeral effect. Long term flowering perennial substitutes ought to be pursued and implemented on the ground to improve sustainability and reduce dependency on annuals which come with high maintenance. The scheme is also screaming for vertical lines. The reinstatement of mature Washingtonia palms at key locations, as was envisaged in the original design, would add useful interest. With time and like implemented in other junctions, the palm crowns would be above bridge level, visible to all motorists without becoming a distraction to their road awareness. Bucida buceras trees, which seem to be the "flavor of the month", would also add interest and volume with their interesting pyramidal and often fastigiated shapes. Meanwhile, small islands and secondary medians, isolated between fast lane traffic and difficult to access, are best treated with paving and contrasting xeriscape gravel beds.



Character
- Option 1
(Galaxy)



I SUSTAINABLE LANDSCAPE

Project No.2: Al Sufouh Neighbourhood Park - Concept design: 2006 – Construction: 2009

Design intent: This small 1.4 Ha park was included in a wider DM project comprising the design of several budget minded public parks and sport facilities serving various Neighborhoods in Bur Dubai and Deira.

All parks, variable in their footprints, comprised shaded children's play areas as well as playgrounds fitted with equipment accessible to people of determination. The brief was to include easy to maintain, manageable facilities and areas of interest responding to the needs of, and bringing together, different members of the community from various age groups and cultures.

Recent visits positive observations: Our three children, all made in the UAE, were still in their pre-teens when I was designing this park located a stone's throw from our house. I had high hopes that they would make good use of the facilities once the park was established and open to the Neighborhood. They soon turned into young adults pursuing their higher studies and professional careers in Europe. I remain hopeful that future visiting grandchildren will one day enjoy the slides and swings.

Meanwhile, I occasionally use the peripheral jogging track myself when a feeling of guilt kicks me off my sofa comfort zone for a bout of physical exercise. Soft surface jogging tracks, using rubber pellets issued from recycled tires, are included in most DM parks. They are proving to be very popular and knee joints friendly.

I really enjoy watching the Zidane and Ronaldo hopefuls of all ages and skills pass a ball to a team mate or score a goal through the legs of a reluctantly nominated keeper. All



of them are engaged in a spontaneous international friendly contest, shouting for attention and a fair share of the ball, in the fenced and lit football pitch enclosure. The recent DM upgrade of the pitch surface to quality synthetic grass proved to be good value engineering providing an even surface whilst saving TSE water and maintenance. I also like to peep out at how popular the park has become over time. It is always busy in the cooler months, in the evening and during the weekends, with several kids' birthday parties often taking place at the same time on the picnic lawns. Families are also driving from other neighborhoods to enjoy a Friday outing which is always a good sign.

I would like to stress the following simple observations:
1 - Nothing can replace the feeling of seating, walking or playing with kids in a natural lawn which becomes fully justified in a park by the sustained pleasure it provides to so many children and visitors for several years.



2 - There will rarely be too many trees in a park as their shade provides a welcome relief from the hot sunshine in the summer months to humans and birds alike, attracting families like a magnet.

Lessons learned and advisable improvements: With hard timbers, such as Burmese teak no longer utilized and for very valid sustainability reasons, natural wood should be selected very carefully and sparsely or preferably replaced by other material options. Maintenance recommendations from manufacturers get quickly forgotten and benches and other outdoor timber furniture too often are turning grey due to sun exposure and a lack of care. They can also be found boldly coated with a multipurpose brown paint a few years after installation. In any case, quality synthetic "thermo-wood" and light weight precast concrete furniture components are preferable and provide far more durable and almost maintenance free results.

Solar technology has evolved rapidly and the new range of self-energized lamp posts is very slick, no longer needing to support solar panels the size of ping-pong tables on their heads.

Food trucks have rapidly gained popularity and are now available, providing an array of food at various places, in semi-permanent and temporary settings. Friday markets can also attract regular and casual visitors. These add interest



to public and private community parks which can rapidly become favorite outdoor destinations whilst increasing revenue for the facility providers.

In the Seventies and Eighties, even if some people were not smoking themselves, when travelling by car, bus or airplane, chances are they were probably travelling with several cigarette smokers turning them into unaware passive nicotine recipients. That was the accepted norm. Fried food was on most dining tables and ingested with plenty of salt and sugar, recently declared as being our new enemies. We basically were oblivious of the potential harm we were causing ourselves and our loved ones. Plastic material was used in all shapes and forms and Brazilian forests were, and continue to be, destroyed at frightening speed to produce plywood and other building material, obliterating rare flora and fauna species in the costly process. Frightening facts and statistics related to the consequences of global warming and climate changes are all over the newspapers and the internet. Nobody can claim ignorance any longer. Recent studies have shown that planting trees by the millions in every country and every empty part of the planet could, if not reverse the melting ice and ozone layer reduction process, at least slow it down considerably due to the ability of trees to absorb tons of carbon dioxide and to produce oxygen.

Dear colleagues and members of the landscape fraternity, if trees can help save mankind from destroying itself and every creature still in existence in the process, let's do it now. Let's help our endangered Earth and design, nurse, plant, irrigate, grow and maintain all species of trees by the millions. Let's spread an urgent message. We have a duty to protect our fragile Earth before it is too late. This will enable our children and grand-children to enjoy some fresh air, a run, a round on the swings and slides, or to play "the beautiful game" in Al Sufouh Neighborhood Park or elsewhere in the world, in bearable temperatures. ■

I would like to dedicate this article to Julian Lee, co-founder of the Desert Group, who has done more than his share for mankind to-date, not least contributing to the planting of thousands of trees in Dubai and the region. A hard-working, dedicated professional with an exceptional horticultural experience and knowledge, a rare integrity and humility. Julian, who is also the author of the book "Landscape Plants of Arabia," has just retired, leaving his mark on the Dubai landscape with a huge legacy. We worked on several projects, over the years, often seated at opposite ends of a meeting table and with different contractual roles but always with mutual respect, starting with the Dubai Chamber of Commerce project which was then the highest tower in Deira, almost three decades ago.

Julian should also be commended for his contribution to the award-winning initiative of training and integrating a large group of persons of determination from the UAE who are now proficient and successful in the plants nursery trade.

How to implement sustainable shorelines

TOOLS TO MANAGE NATURAL HAZARDS AND SEA LEVEL RISE IN EGYPT

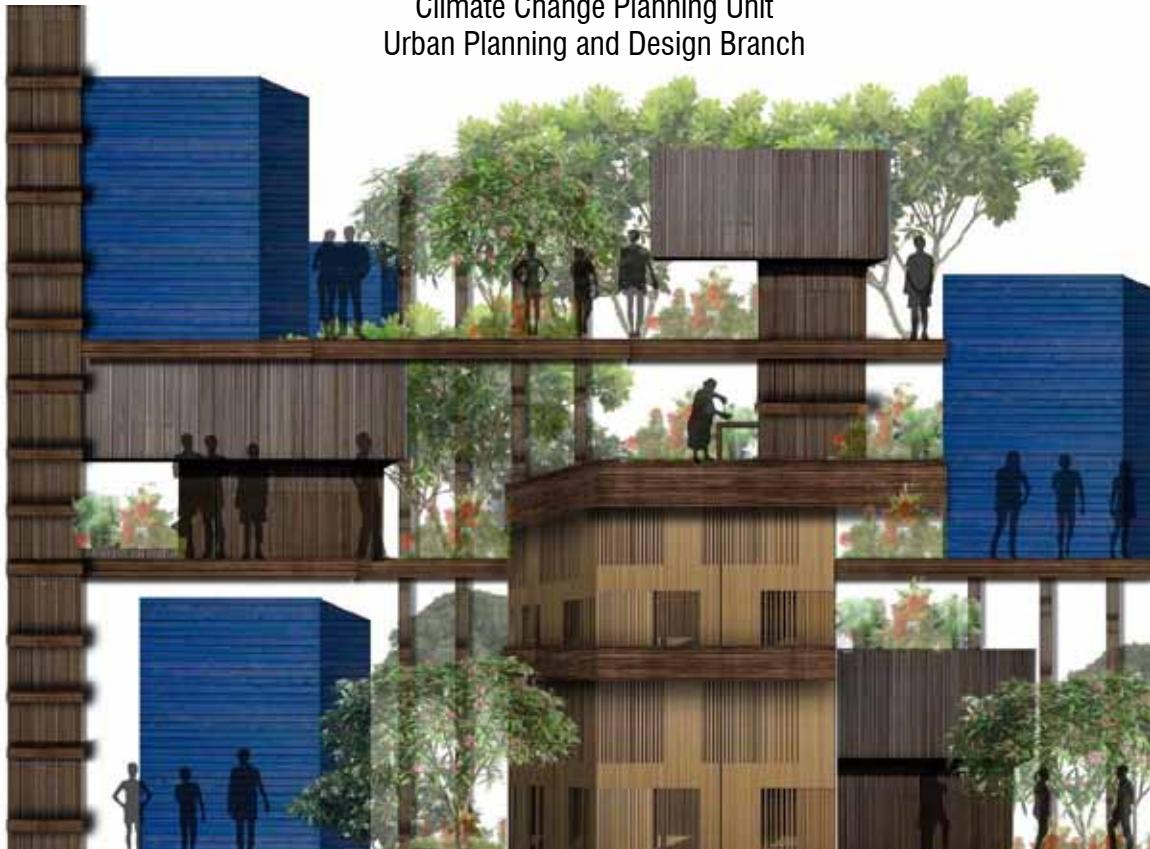
Rasha Sayed Mahmoud, Arch.PhD

MSA University

Planners for Climate Action_P4CA

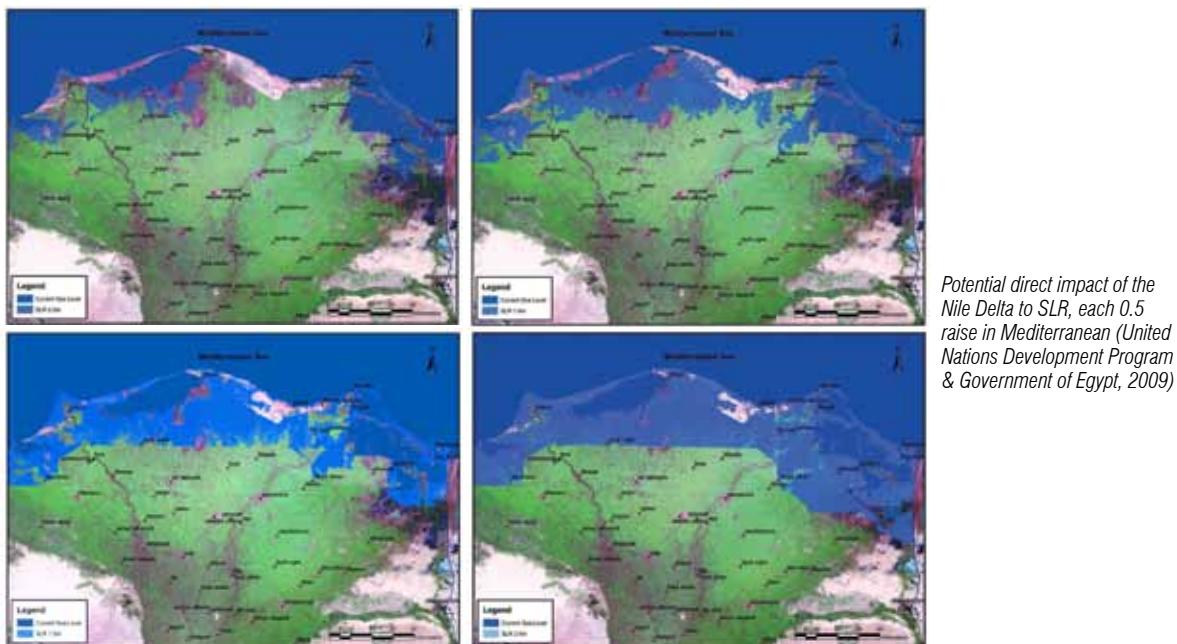
Climate Change Planning Unit

Urban Planning and Design Branch

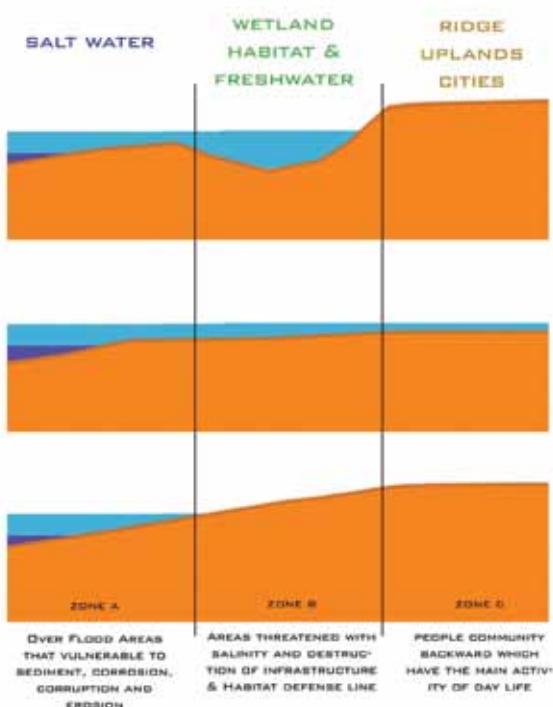


Over the past few decades, the world has faced multiple climate challenges and crisis- from droughts, gradual loss of natural resources, land deformation and rising sea levels that have contributed to the reformation of land on an urban scale. Egypt is one of the most vulnerable countries to climate change impact, with the Nile Delta and other deltas likely to be threatened by rising sea levels.

The impact of climate change on Egyptian landscape, especially its shorelines, would cause severe changes to social, economic, urban and environmental levels. Food resources, agriculture, land use, climatic conditions and the economy would all suffer dangerous and destructive effects. As urban planners and designers, we should be able to introduce different solutions and mitigation plans and give other alternatives rather than immigration.



Scientific studies and experiments, such as managing realignment of urban settlement and offshore live flora and fauna are targeting futuristic development assessment. The problem is in the way of thinking and methods of applications that architects, planners, and developers initiate. Tangible solutions addressing different development possibilities of shorelines and offshorelines architecture with their local communities' involvement in design and implementation process. Identification of the problem of dynamic urban planning and architectural design, which face most of the coastal communities that suffer from similar problems, hazards, and natural crisis, will address different research strategies through linking strategic analysis with the current situation. The outcome of the framework synthesize will be in the form of design guidelines and standard framework that match with Egypt's shorelines and communities.



Different Division of zones on coastal shorelines.

Division of zones on coastal shorelines enable urban planners to understand each factor that threatens the flora and fauna in terms of urban planning and landscape architecture design principles. The most important aspects of this definition are dynamic, function, habitat, and processes.

Salt water (zone A) Areas with excessive water, attached to offshore shelf and over flood areas that are vulnerable to sediment, corrosion, corruption and erosion. This dynamic zone, in which implies variable and changing.

Wetland habitat & freshwater (zone B) In which areas threatened with salinity and destruction of infrastructure and habitat. Wetland here could present as the defense line.

Ridge, uplands, and cities (zone c) Ridge and uplands are the most highly secured parts of cities. These areas have the most investment.

Our cities are a complex system that has many inner relations; therefore, the systematic design of spatial structure is the basic step for spatial sustainability. Creating rational relations between social, economic, and physical activities would lead to spatial sustainability. All these human activities are in the form of the strategic systematic elements, including urban zones, corridors, and nodes in urban spatial organization. It is important to consider these main elements to create sustainable composition of urban cities

URBAN SCALE

Zones (like residential, commercial and green spaces)

Urban corridors (like transportation systems)

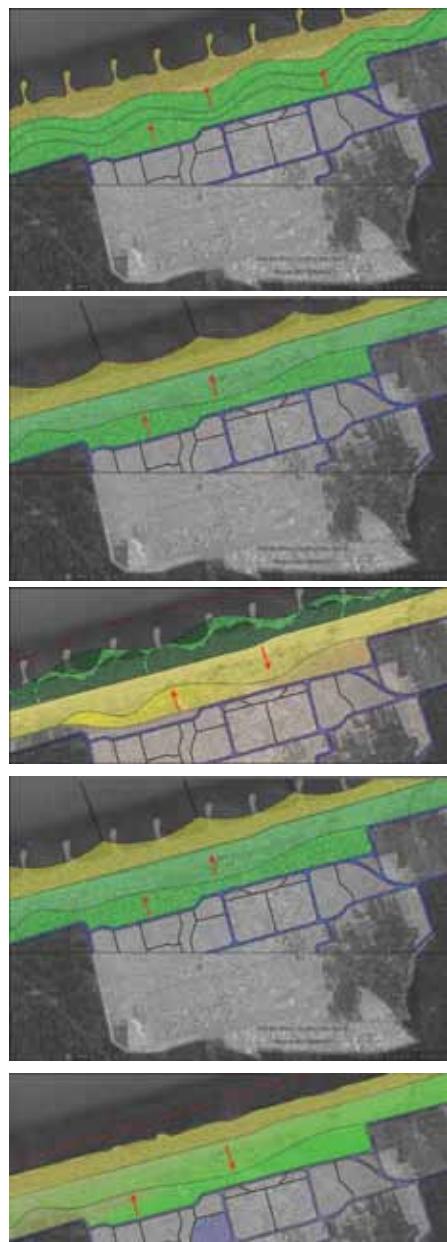
Urban nodes (like city and neighborhood centers)

In Egypt, architecture on coastal lines has different categories, but more than 70% of these shorelines go to the touristic functions for the use of the Mediterranean and red sea water. For delta shorelines, which are close to the seawater, most of them also have the same functions but others could be used frequently for fishing in national waters. Therefore, in these areas the housing units are too close to the fishing boats, as these housing units have the same degree of danger that could damage complete villages.

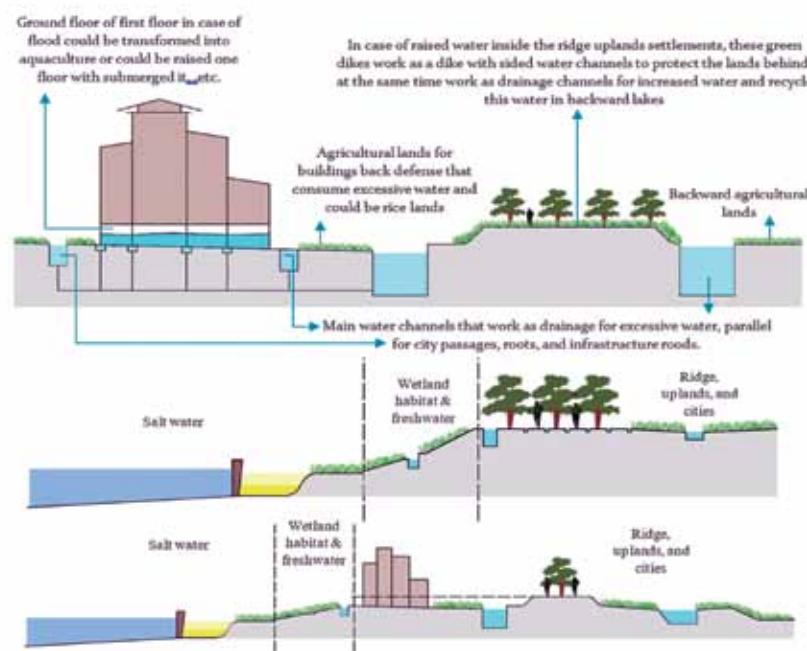
The density of land uses in the coastal urban corridors has an important role in sustainable development of these areas, as well as to mitigate the impact of global changes. The main traffic corridors are responsible for main elements of linear urban spatial structures. On the other hand, in coastal cities, the main streets are the keys to clean the air by the suitable direction that causes the flow of coastal winds. Traffic and linear corridors are not just the indicators of sustainable urban design; there are other factors that affect directly and indirectly the ecological system. Then increase or decrease from global warming and climate change.

To create communities that could adapt or mitigate with the change, and at the same time to create sustainable development that could be seen as core investments to integrate socio-economic improvements on the Egyptian northern coast requires a framework to be applied in order to create a strategic future development plan.

The first phase of the framework is the compilation and analysis of shorelines data and information in addition to natural processes and elements, the second phase is to assess exposure to risk management vulnerability assessment, the third phase is to design sustainable development plans based on the projected scenarios of sea



Case study of Damietta City, New Damietta section, one of the northern Delta Egypt cities that are vulnerable to Sea Level Rise impact. Maps show different techniques for redesign the shore line using different shapes of green sand dunes on three different zones (salt water, wetland habitat and freshwater, ridge upland cities) which will encourage and offer new opportunities for investments and people integration in sustainable development.



Case study of Damietta City, New Damietta section, one of the northern Delta Egypt cities that are vulnerable to Sea Level Rise impact. Sections show different techniques for redesign the shore line using different shapes of green sand dunes on three different zones (salt water, wetland habitat and freshwater, ridge upland cities) integrated with different shapes of lakes and water channels as drainage systems, with deformation in ground and first floor in the city as different functions that mitigate with excessive water, which will encourage and offer new opportunities for investments and people integration in sustainable development.

level rise. Finally, we focus on the overall strategy of the solutions and technologies development mitigation and adaptation for the study area coast. Techniques of landscape architecture inventions could be applied in order to integrate current opportunities and future strategic plans for a sustainable development. Such techniques must be applied for the three zones of shoreline (Saltwater & wetland habitat freshwater & ridge Upland). These techniques will be applied using three main approaches, first, raise the level of offshore lands (backfill using soil from the same land or other lands -Riparian vegetation management - Stock control – re-vegetation – weed control - Tidal marsh enhancement - Tidal marsh creation - Sand dunes creation and beach nourishment). Second, reduce the sea level and wave strikes (static reduction of specific part of sea - control levels of natural lakes or natural water drainage – synthesis of artificial lakes - closed sea level control - Reduce the level of waves by building wave breakwaters (Vertical – horizontal – cumulus). Thirdly, separate the integration line between the rising water and low dry (Bank grading Fiber logs - Marsh (toe revetment – sill – with groins) Offshore break water systems and spurs - Riprap revetment - Bulk heads - Positional dамes - Sea dikes - Cumulus dамes - Solid dамes).

This will result in redesigning the city gradually for vertical growth, with public participation that will provide opportunities to transform the impact of climate change and contribute to investments and development. ■



Elevation show the conceptual studies for allocated urban settlement in case of drought with new light structure un its that gather residential and economic factors in one place and its permit for growing vertical in case of excessive water and floods. Landscape architecture could gather vertical gardens with other functions to make the city vertical growth for future strategic plans.



Conceptual layout for one cell of the redesign shapes for residential-socioeconomic space for urban settlement

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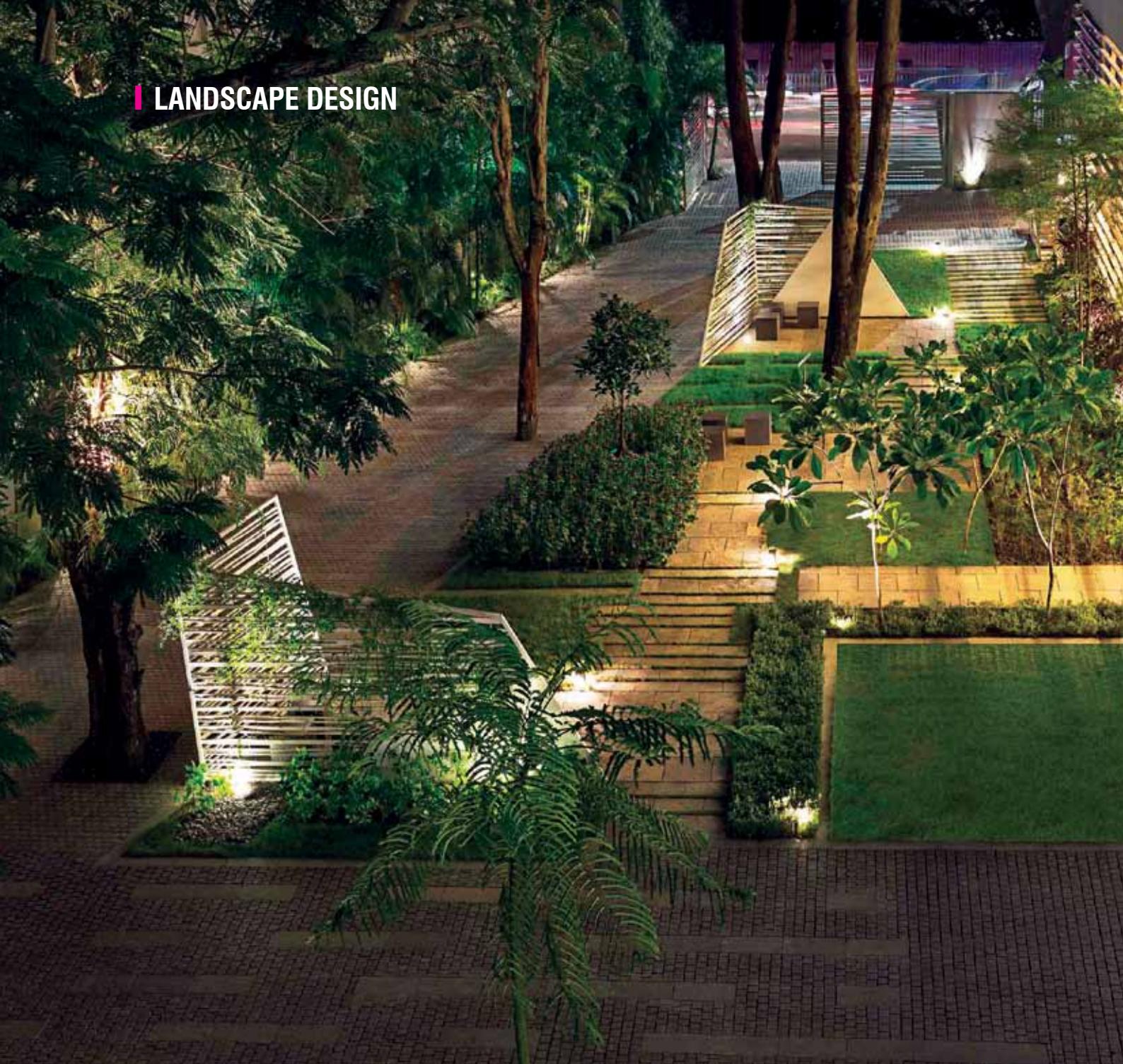
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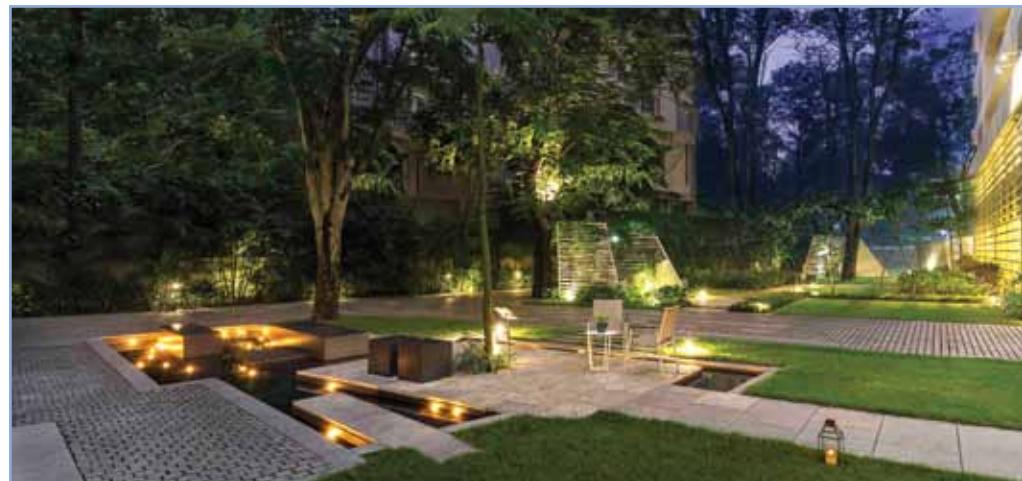
Babiker.khateeb@polyclean.ae



Nature's Preserve

The culturally rich Indian city of Kolkata is home to a new project

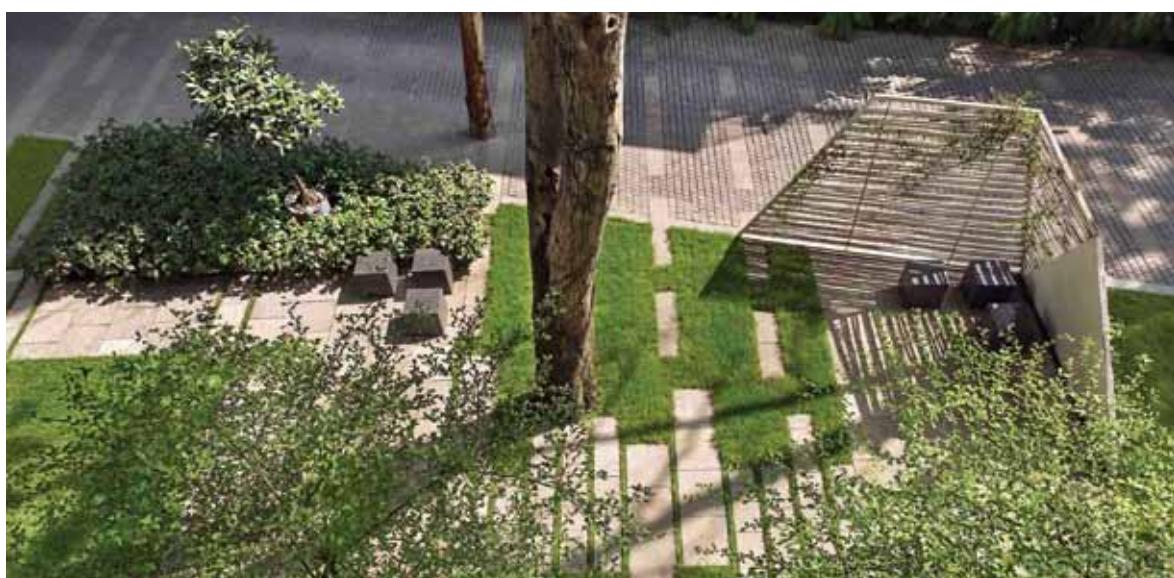
By: One Landscape



Godrej Properties is located in the iconic Indian city of Kolkata. Known for its landmarks including the Howrah, Hooghly Bridge and destinations like Victoria Memorial and Esplanade building, the city's rich history is abundant. A favorite of the British settlers, Alipore, the site of the project, has always been one of the most prestigious locations in the city.

The design brief for Godrej Platinum Development is to create a community of spacious dwellings located in an exemplary landscaped environment with existing trees. With numerous features, facilities and amenities it is designed to make city living a memorable, safe and timeless experience.

A key challenge was to ensure the retention of existing trees within the site and comply with strict statutory regulations related to tree preservation. Therefore, due consideration was given to merging



I LANDSCAPE DESIGN

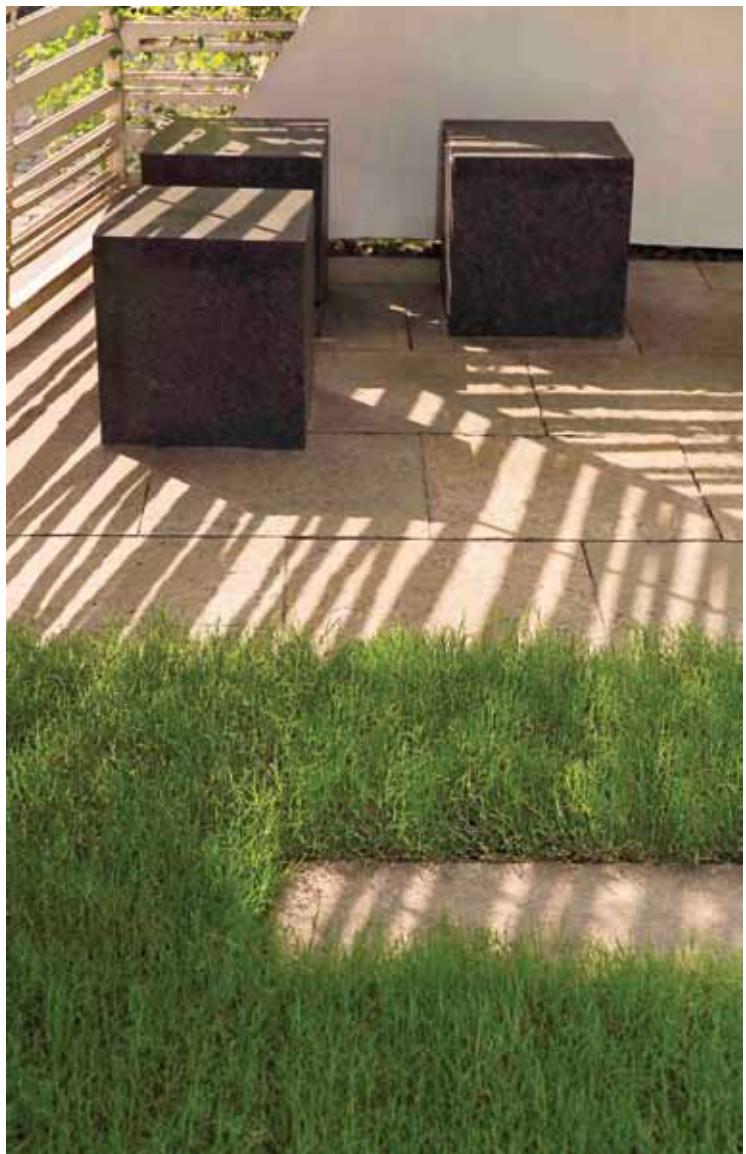
the preserved trees into the architectural and landscape design in total harmony.

The concept design for this project is to create an oasis in the heart of a busy city – a refuge from the chaos, a precious project within a precious site. Set against a dramatic landscape setting of numerous magnificent existing trees the landscape design for Godrej Platinum follows a journey through jewels –sculptural forms floating in the elegant landscape inspired by colonial landscape design characters.

As part of the masterplan the residential blocks were placed strategically in order to retain the vegetation. These tall trees further help to alleviate the impact of the new development as they acted like a giant green curtain blending the buildings with nature and the city.

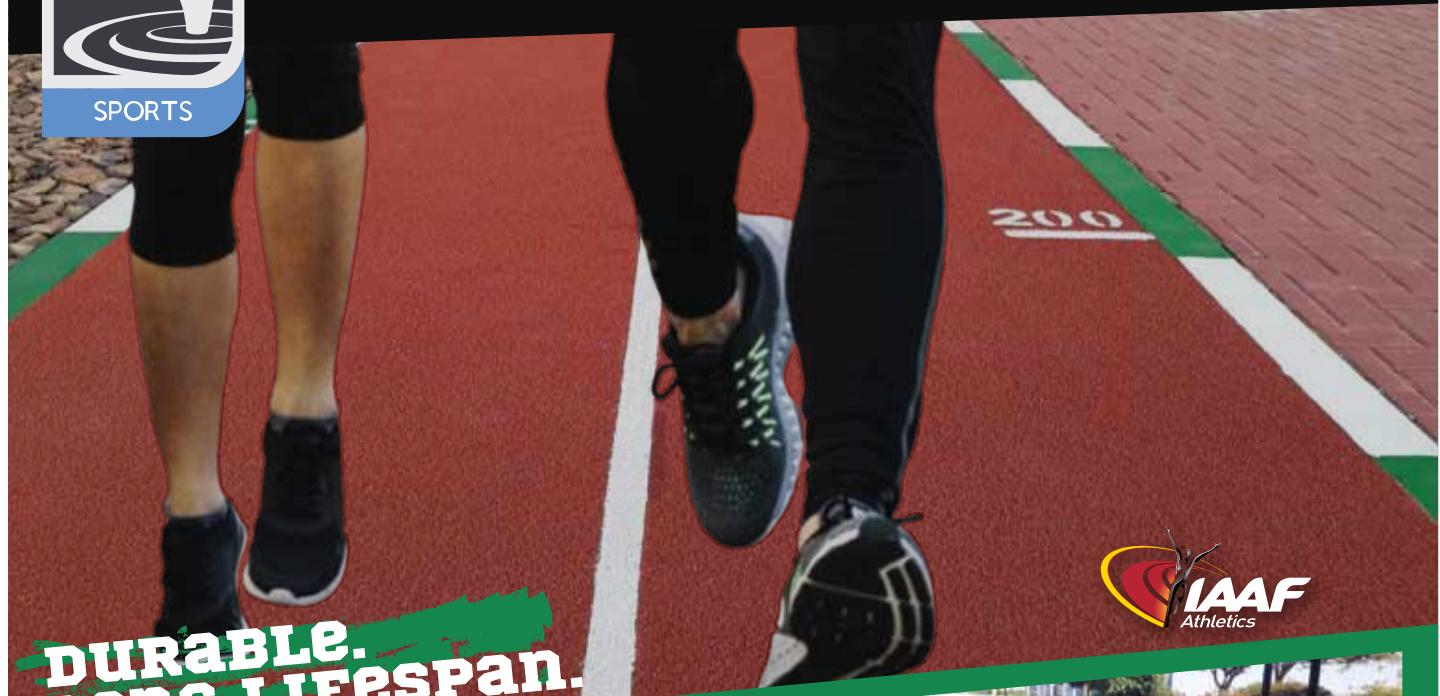
The landscape experience begins with the arrival garden dotted with intricate pavilions as sculptures set in the lush greenery under the canopy of the existing trees. Simple geometry mimicking the elegance of colonial landscape and a limited planting palette complementing the existing trees remain the key driver in articulating this space.

Further into the site enclosed by the two elegant residential towers is the central court forming the heart of the landscape plan. A series of floating canopies connect the entrances negotiating the existing group of trees. In order to retain the trees, cut outs are created in the canopies to accommodate the tree trunks creating an illusion of the canopy being held by both inorganic (metal circular columns) and organic (circular tree trunks) support systems.





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| LANDSCAPE DESIGN

Being both the heart of the project and the central garden this space is further delineated with two key water features at each end – one passive and one active.

The passive water feature is a small reflecting pool next to a feature deck. A feature tree at the centre of the deck acts like a green sculpture with its dramatic foliage. The active water feature at the other end of the court is also a sculptural expression. Inspired by the form of a native flower bud, the vertical sculptural installation acts as water spouts in children's play zone mimicking rain shower. Like the floating canopies where nature is integrated with artificial the sculpture in the central court is both organic (feature tree next to reflecting pool) and inorganic (children's play floral water spouts). A series of further simple lawn spaces under the shadow of gigantic trees act as surfaces for ground water recharge as well as community gathering spaces.



Landscape design plays a significant role in making this a green project. Hardscape surfaces are kept to the minimum allowing extensive porous and well drained green areas within the development. Energy efficient landscape lighting is used throughout the design to keep energy usage to a minimum without compromising safety and ambience.

Platinum Godrej is a project where sensitive landscape intervention brings a unique spatial experience through careful articulation of the existing with the proposed and natural with the artificial. ■

Project Name: Godrej Platinum
Location of Project: Alipore, Kolkata, India
Date of Completion: 15/08/2017
Client: Godrej Properties
Project Leader: Mr. Viraj Chatterjee
Design Team: Saman Chau, Saumya Sampat
Partners / Main contractor: GPL Design Studio
Photographer: MiA Studio (www.miastudio.in)



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BEAT THE HEAT WITH INTERIORSCAPING – BRINGING NATURE INDOORS!

By: Minal Rita



Landscaping has predominantly remained an outdoor feature in the field of space design. With the onset of summer wherein many people choose to spend the next 7 months indoors, what could be a better option than to have your very own space transform into an indoor garden?

Interior landscaping gives an additional dimension to your property. Professionals at Plantscapes provide you with the best solutions – the aim is bringing outdoors inside – that suits your choice and style! “We meet customers on a daily basis and they want more than just standard pots and plants, we have to keep up to date with the latest design trends to keep our customers happy!” say Sharmeen and May who are experts at Plantscapes. “According to us, interior landscaping is not only having the splash of green indoors it is creating a beautiful landscape indoors!” further add the experts. While houseplants are obvious choices when deciding the focus on indoor garden, the concept extends much further beyond these plants.

Plantscapes offers a range from which the customers can make their choices and will add that spark to their

interior spaces. Some of the elements in demand for interior landscaping include green walls – artificial and natural, Moss walls, Water features, Pots and containers, Artefacts, Pebbles and mulch, Artificial plants and trees, Artificial grass and Preserved trees. With these additions, we not only add value to your space but also assure you with a drastic transformation on the well-being of the occupants. Besides aesthetic benefits, it also helps cleanse the air and is a stress reliever and foster happier vibes.

“Plantscapes helps you visualize the transformation, execute and eventually carry out problem-free maintenance!” say Sharmeen and May.

Besides Interior landscaping, Plantscapes is one of the market leaders in the design, supply and installation of specialist pots and plants for outdoor landscaping, for permanent or temporary usage for any given event or a special occasion. We offer bespoke solutions including design, visualisation, installation and eventually maintenance to keep your landscape at its best. ■



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Mature Ornamental Trees Available Now in the GCC



Acacia LLC – Dubai UAE

By: Shaaista Ahmed

The GCC has flourished extraordinarily in recent decades with cosmopolitan cities, glittering skylines and lush green landscapes. Phenomenal progress in landscaping and irrigation technology has made much of this possible. The past few years in particular have seen the emergence of an innovative trend in landscaping that has the potential to be an industry game-changer. Instead of planting twigs and waiting several years for them to grow, matured ornamental trees are now available on the market. This movement is spearheaded by Acacia LLC, a Dubai-based supplier of matured trees to landscaping projects which is a member of the Tanseeq Investment Group of Companies.

Tanseeq Investment LLC heads a group of eighteen successful companies founded and headed by Mr. Ahmad Anoohi (Chairman) and Mr. Naser Ahmed (Group CEO). Each company specializes in a particular discipline of landscaping and, together, offer a one stop solution for all landscaping requirements.

Acacia LLC imports ornamental trees from countries around the world, including Thailand, Malaysia, China, India, Spain, Italy, USA and Holland. One enterprise that specializes in ornamental trees is Cottonwood Nurseries, an agro-tech company established in 2009 by Mr. Naser Ahmed to produce ornamental trees complying with BS (British Standard) 3936 1: 1992.

Cottonwood has over 90 acres of cultivated land in South India comprising of self-sustaining and eco-friendly nurseries which employ solar power and gravity fed drip irrigation systems. The water for irrigation is sourced from under-ground aquifers.

Cottonwood exported its first shipment of ornamental trees, 1000 numbers of girth 20-25 cm, to the UAE in 2015. Since then, the company has grown exponentially in experience, innovation and nursery space and is set to deliver 20,000 trees to Acacia LLC this year alone and a further 30,000 trees in 2020. The establishment of Cottonwood has helped streamline the supply process for Acacia LLC and, most importantly, control the quality of the mature trees from source to delivery.

Cultivating the trees is a time-intensive task which requires patience and careful nurturing. The twigs are grown from seeds in individual pots to a height of one meter before being planted in the ground at optimal spacing. The twigs are then grown to maturity adopting special pruning techniques to comply with BS 3936 1:1992.

The parameters for these standards are:

- Clear trunk
- Girth (or circumference) of trunk
- Overall height

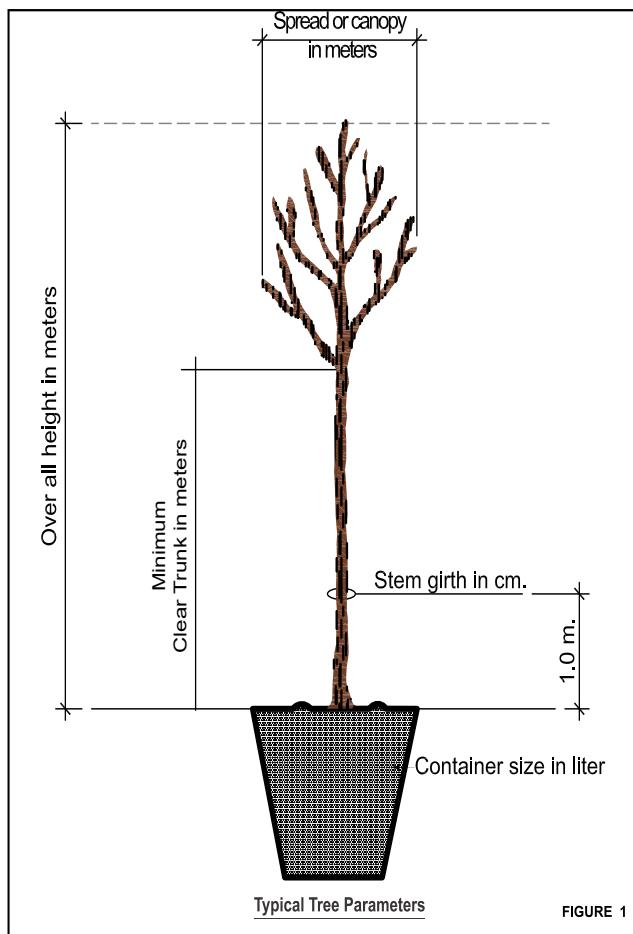
In addition to the above, Cottonwood also takes the following parameters into consideration:

- Canopy spread
- Container size

[See figure 1]

Currently, Cottonwood is able to produce trees reaching a girth of 35-40 cm, which typically takes 6-7 years from planting of the twig. BS 3936 1:1992 covers mature trees having a maximum girth of 14-16 cm only, whereas Cottonwood exceeds the British Standards in girth and all other parameters (see figures 2 and 3).

The most challenging phase of this journey is the preparation, stabilization and transportation of the ornamental trees from India to Dubai in accordance with UAE's Ministry of Environment regulations, which calls for a planting medium free of natural soil. This is a four-stage process and can take 26-40 weeks, depending on the type of tree.

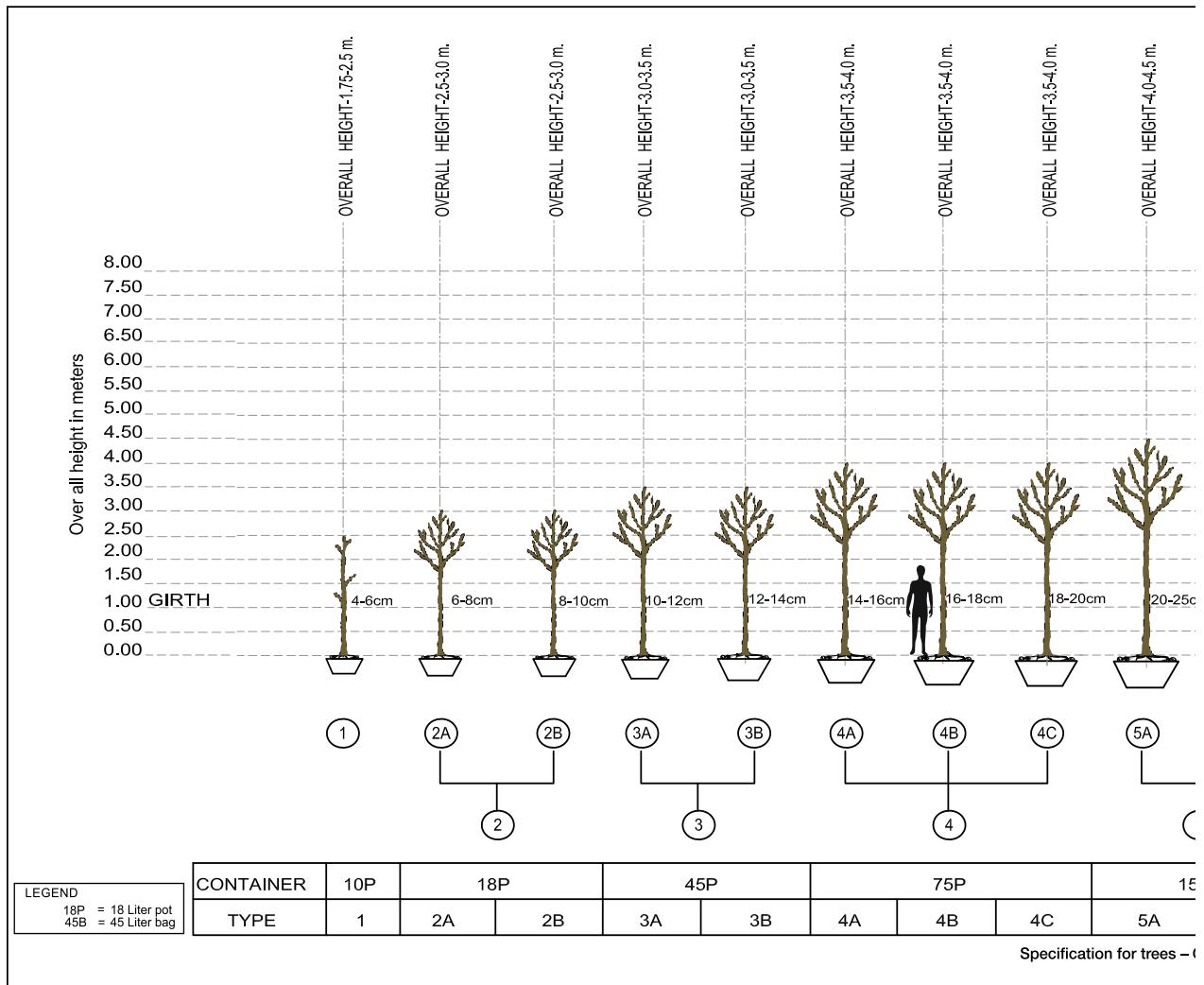


I TREES

NURSERY STOCK - SPECIFICATION FOR TREES

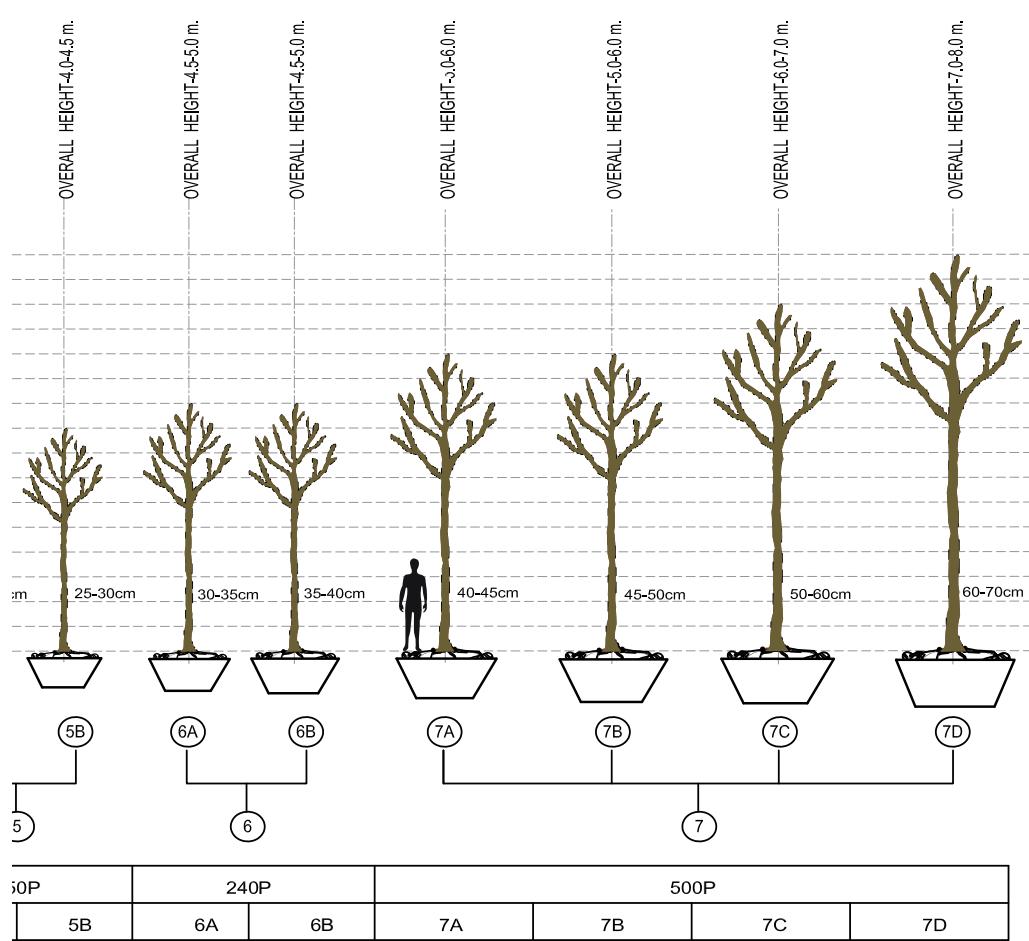
TREE TYPE	GIRTH (cm)	OVERALL HEIGHT (m)	CLEAR TRUNK MINIMUM (m)	CANOPY (m)	CONTAINER SIZE (P-pot, B-bag) (lit)
1	4 - 6	1.75 - 2.5	-	-	10 P
2A	6 - 8	2.5 - 3	-	-	18 P
2B	8 - 10	2.5 - 3	-	-	18 P
3A	10 - 12	3 - 3.5	1.5	0.5	45 B
3B	12 - 14	3 - 3.5	1.8	0.5-0.75	45 B
4A	14 - 16	3.5 - 4	2	0.75-1	75 B
4B	16 - 18	3.5 - 4	2	1-1.5	75 B
4C	18 - 20	3.5 - 4	2	1-1.5	75 B
5A	20 - 25	4 - 4.5	2.5	1.5-2	150 B
5B	25 - 30	4 - 4.5	2.5	1.5-2	150 B
6A	30 - 35	4.5 - 5	2.5	2-2.5	240 P
6B	35 - 40	4.5 - 5	2.5	2-2.5	240 P
7A	40 - 45	5 - 6	3.0	2.5-3	500 P
7B	45 - 50	5 - 6	3.0	2.5-3	500 P
7C	50 - 60	6 - 7	3.0	3-3.5	500 P
7D	60 - 70	7 - 8	3.0	3-3.5	500 P

FIGURE 2



The first stage involves carefully pruning the roots and then uprooting the mature trees from the ground. This process takes 6-8 weeks, including the stabilization period. In the second stage the roots of the trees are thoroughly washed of residue soil and then transplanted into bags containing cocopeat, a stable and sterile planting medium. This is followed by a stabilization period of 8 weeks.

The third stage sees the transportation of the trees from the nurseries to the port of shipping in India. The trees are carried in reefer containers fitted with temperature monitors to help maintain an optimum environment until they reach the port of destination in Dubai, UAE. The shipment is then transported to Acacia LLC's nurseries in Dubai. Finally, the trees are transplanted in pots and undergo an establishment period of 12-24 weeks to develop an optimum canopy spread, before they are ready to be sold. Cottonwood and Acacia LLC have acquired valuable experience and expertise to minimize mortalities to 5%, with 95% of trees reaching Acacia LLC in excellent condition.



Graphical representation

FIGURE 3

| TREES



Acacia LLC - Dubai UAE

THE FOLLOWING MATURE TREES ARE SUPPLIED BY ACACIA LLC

ORNAMENTAL TREES

- *Albizia lebbeck*
- *Azadirachta indica*
- *Samanea saman*
- *Bauhinia purpurea*
- *Cassia siamea*
- *Cordia sebestena*
- *Callistemon viminalis*
- *Dalbergia sissoo*
- *Delonix regia*
- *Ficus benghalensis*
- *Ficus binnendijkii alii*
- *Ficus religiosa*
- *Ficus altissima*
- *Hibiscus tillaceus*
- *Millingtonia hortensis*
- *Peltophorum inerme*
- *Pongamia glabra*
- *Tabebuia heterophylla*
- *Tabebuia rosea*
- *Tabebuia argentea*
- *Terminalia catappa*
- *Terminalia mentalyi*
- *Thespesia populnea*

FORESTRY TREES

- *Acacia arabica*
- *Acacia tortilis*
- *Acacia farnesiana*
- *Acacia mellifera*
- *Parkinsonia aculeate*
- *Pithecellobium dulce*
- *Prosopis cineraria*
- *Tamarindus indica*
- *Ziziphus spina-christi*

SMALL TREES

- *Caesalpinia gilliesii*
- *Nerium Oleander*
- *Tecoma Stans*
- *Hibiscus rosa sinensis*



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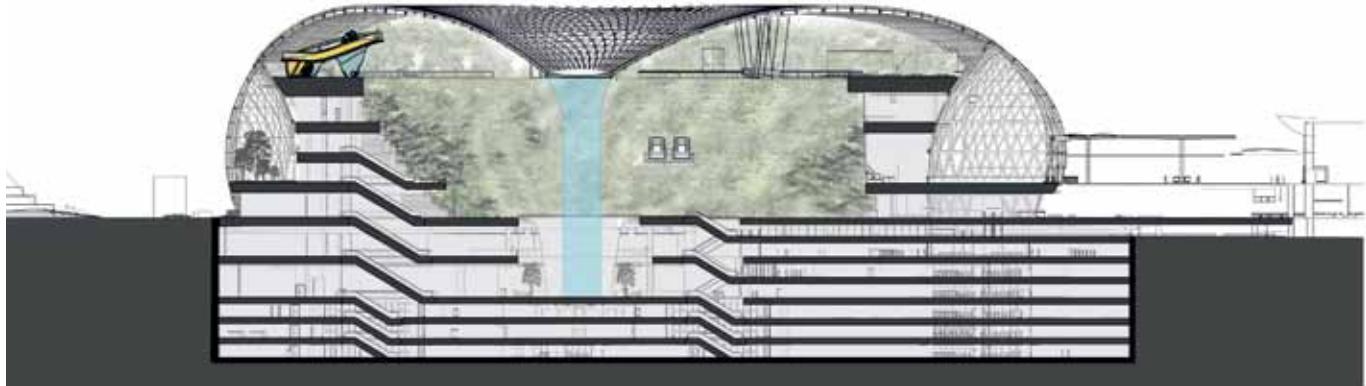
I PLAY SCULPTURE



The Discovery Slides at Jewel Changi Airport complex, Singapore

In 2015 Carve and Playpoint won a tender for an adventurous sliding attraction inside the Jewel Changi Airport development, designed by Moshe Safdie Architects.

By: Carve





The attraction is located in the Canopy Park on the highest level of the new development, which includes a shopping mall, attraction park and a garden, all in front of Terminal 1. In this canopied park, more than 1400 trees and palms will be housed alongside many other attractions. Creating the ultimate airport experience, and convincing travellers to go through Singapore's Changi airport instead of others.

In Carve's original concept, the playground was designed like a sculpture resembling a gemstone; with parts that are carved out - the slides, stairs and rope climbs - revealing the coloured interior of the gem.

In this way the playground presents itself in duality; a gem balancing on the fifth ring of Jewel with a slide attraction hidden inside.

At first the sinuous shell was designed with mirror tiling over the whole structure. During the design process with the client this manifested as a continuous and seamless polished steel skin wrapping around the three cones holding up the large access platform. A shiny jewel in the green forest valley of the park. It is an object that will attract people from afar. The shell, with its liquid



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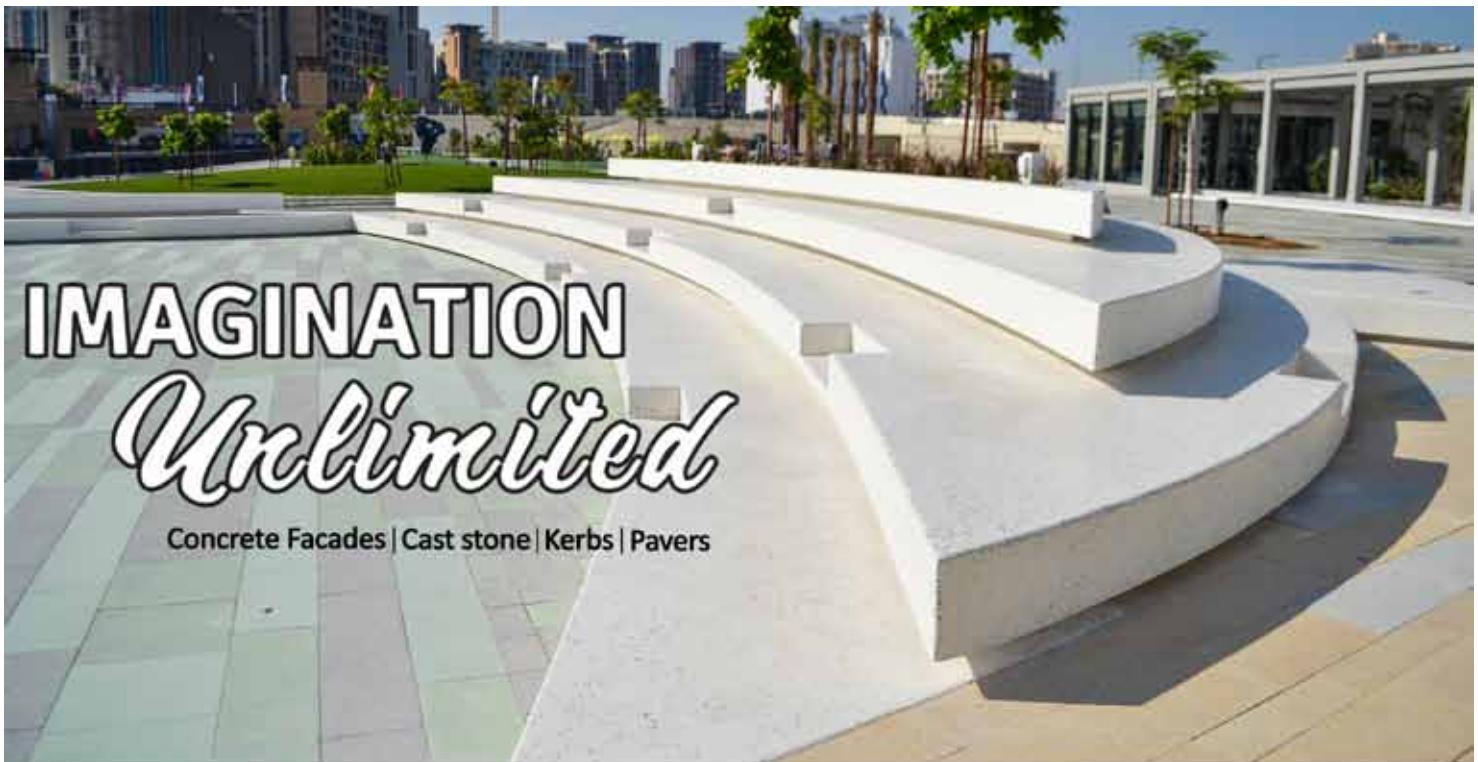
mercury form, borrows the motion and aesthetic of its surroundings. Visitors can experience infinite and surreal reflections of themselves. The rubber patterning on the floor was even designed to create a spiraling abstract reflection in the shell of the playground.

The viewing deck of the playground will be the highest accessible point in the complex, giving a fantastic view of the entire interior of the airport

terminal. Naturally this will make the playsculpture a crowdpleaser and social media magnet, but it will also invite and attract children of all ages and families for adventure and play. Going up and down the challenging slides, this "WOW" experience of sliding through the cones and landing at the bottom will make visitors come back time and time again.

The bright yellow inside of the playsculpture contains four slides; A family slide, a steep drop slide





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I PLAY SCULPTURE



and two glass-covered spiral slides coming down from the highest point. The Discovery Slides structure has a complete double curved steel surface. Curved glass was used as balustrades, in the viewing floor, as spiral slide covers and on the double curved lid of the highest cone. Fibre optic lights were integrated in the rubberized floor surrounding the structure, point lights in the highest cone and LED strips on the perimeter of the curved glass balustrade. Air-conditioning was also integrated into the sculpture's viewing deck to provide a comfortable temperature when children are playing on the slides directly under the building's roof.

The Discovery Slides playground spans over 18 metres by 16.7 metres in length and stands at 7.5 metres high at the highest point of the platform. Built and produced in three different parts of the world it is indeed a very complex and unique playsculpture. From concept design to realisation, the project took over two years to complete.



Data

The Discovery Slides are designed and engineered by Carve in the Netherlands and built by Playpoint in Singapore.

Design: 2015 – 2019

Completion: April 2019

Client: Jewel Changi Airport Group

Location: Canopy Park at Jewel Changi International Airport, Singapore, level 5

Size discovery slides: 18x16,7x7,5 metres

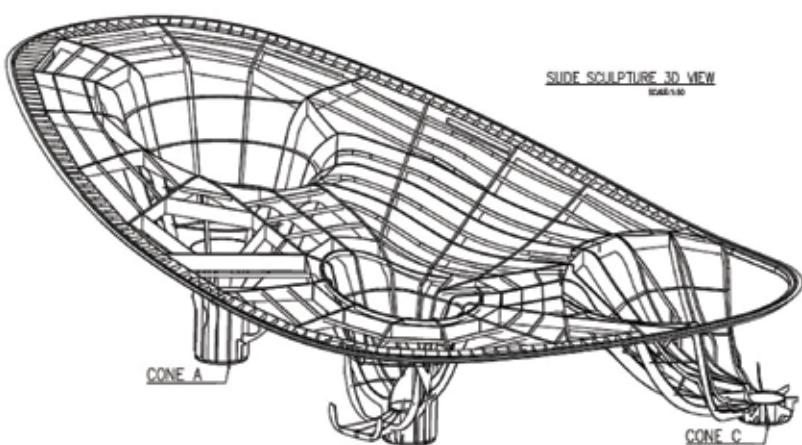
Carve team: Elger Blitz, Lucas Beukers, Mark van der Eng, Jasper van der Schaaf, Hannah Schubert, Thomas Tiel Groenestege, Marleen Beek, Elke Krausmann, Henry Roberts, Gaia Glereani

Playsculpture Facts:

- 311 square meter of sculpted polished stainless steel
- total of 70 tonnes of which 50 tonnes of stainless steel
- fully integrated A/C system to provide better climate while playing

Photocredits:

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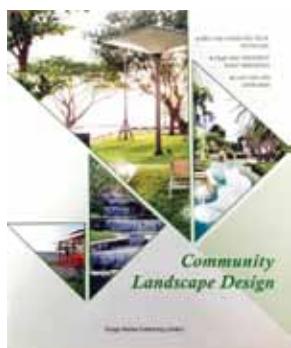
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BOOKS OF INTEREST



COMMUNITY LANDSCAPE DESIGN

ISBN: 9789881296887

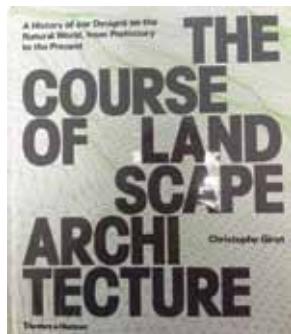
PUBLICATION DATE: 1 Aug. 2014

HARDCOVER: 288 pages

BOOK DESCRIPTION:

As the world is undergoing rapid urbanization and demands for good housing in cities soar, we are looking for residential environment where we can take refuge from our intense and hectic lifestyle. This enticing book is a window

to a diverse range of community landscape design creating exceptional living environment across the globe addressing this need of high-quality housing. This stimulating book is divided into three sections high-rise residential tower landscape, mid-rise residential block landscape and low-rise villa landscape as each category has its unique landscape character. Included projects demonstrate how landscape architects integrate the key parameters; culture, context, sustainability and budget making it a useful reference to both landscape design professionals and enthusiast.



THE COURSE OF LANDSCAPE ARCHITECTURE

ISBN: 9780500342978

PUBLICATION DATE: May 31, 2016

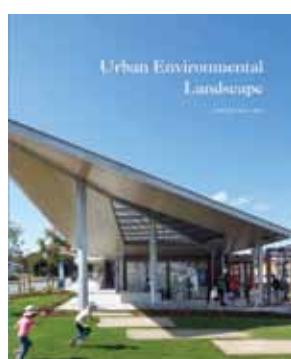
HARDCOVER: 304 pages

BOOK DESCRIPTION:

Christophe Girot sets out to chronicle this history, drawing on all aspects of mankind's creativity and ingenuity. In twelve chapters, he brings together the key stories that have shaped our man-made landscapes. Each chapter consists of a thematic essay that ties together the central developments, as well as a case study illustrated with specially

commissioned photographs and meticulously detailed 3D re-creations showing the featured site in its original context.

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URBAN ENVIRONMENTAL LANDSCAPE

ISBN: 9781864706307

Author: Dieter Grau

Hardcover: 256 pages

Publication Date: (10 Jun. 2015)

Book Descriptions:

The book provides the latest trends in urban environmental landscaping, with informative chapters on basic principles, dimensions, reference standards and considerations across

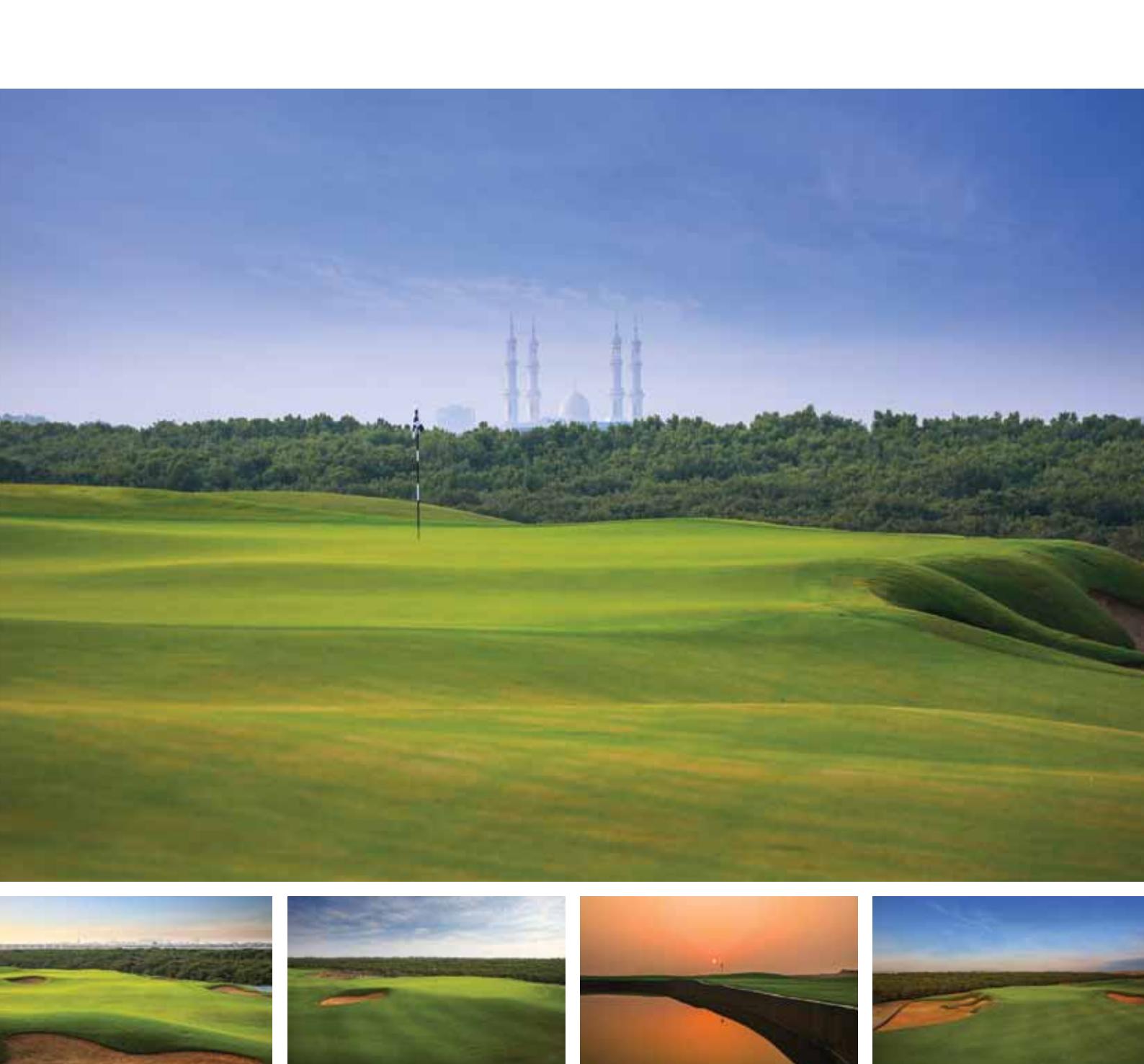
a range of themes, such as public parks, public plazas, waterfront public open spaces, and urban street environments. It Showcases a broad range of informative high-quality projects spanning the United States, Mexico, Australia, China, and Europe and provides comprehensive reference material for architects, urban planners, preservationists ,and landscape designers, and all who are directly involved in town planning in the urban environment. For each part, we selected the most striking cases with the newest design standards to showcase spectacular landscape design.



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Irrigation Line Completion & Maintenance Works	Completion and Maintenance of Irrigation Line	Al Ain City Municipality (Al Ain)	Al Ain		4/29/2019	5/19/2019
Soft & Hard Landscape Construction	Construction of soft and hard landscape as well as the irrigation network.	Nakheel PJSC (Dubai)	Dubai	285	4/28/2019	5/12/2019
Parks, Walkways Implementation Works	Implementation of Parks, Walkways	Hail Municipality (Saudi Arabia)	Saudi Arabia	2667	4/24/2019	5/21/2019
Martyrs Garden Construction	Establishment of the Martyrs Garden	Ministry of Public Works & Housing (Jordan)	Jordan		4/23/2019	5/9/2019
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Green Areas Maintenance Materials	Supply of Materials for the Maintenance of Green Areas	Aseer Municipality (Saudi Arabia)	Saudi Arabia	267	4/22/2019	5/22/2019
Gardens and Sports Stadiums Construction	Establishment of Various Gardens and Sports Stadiums	Abu Dhabi City Municipality (Abu Dhabi)	Abu Dhabi		4/21/2019	5/6/2019
Landscape and Associated Works	Provision of Landscape and Associated Works	Kuwait Oil Company (KOC)	Kuwait		4/21/2019	5/28/2019
Landscaping & Irrigation Networks Development	Development and Rehabilitation of Landscaping and Irrigation Networks	Abu Dhabi City Municipality (Abu Dhabi)	Abu Dhabi		4/21/2019	5/6/2019
Gardens and Walkways Construction	Construction of Gardens and Walkways	Aseer Municipality (Saudi Arabia)	Saudi Arabia	533	4/21/2019	5/22/2019
Landscaping & Irrigation Networks Development	Development and Rehabilitation of Landscaping and Irrigation Networks	Abu Dhabi City Municipality (Abu Dhabi)	Abu Dhabi		4/21/2019	5/6/2019
Al Hamra Park Establishment	Establishment of Al Hamra Park	Riyadh Municipality (Saudi Arabia)	Saudi Arabia		4/17/2019	6/16/2019
Entrances Improve & Beautify Works	Improve and Beautify the Entrances	Jazan Municipality (Saudi Arabia)	Saudi Arabia	1333	4/16/2019	5/13/2019
Gardens Rehabilitation & Development	Rehabilitation and Development of Gardens	Ministry of Municipal & Rural Affairs (Saudi Arabia)	Saudi Arabia	267	4/15/2019	5/20/2019
Landscape Improvement Works	Carry out Landscape Improvement Works	Riyadh Municipality (Saudi Arabia)	Saudi Arabia	800	4/15/2019	5/13/2019
Gardens & Parks Rehabilitation & Development	Rehabilitation and Development of Gardens and Parks	Ministry of Municipal & Rural Affairs (Saudi Arabia)	Saudi Arabia	400	4/15/2019	5/20/2019
Public Parks Establishment	Establishment of Public Parks	Qassim Municipality (Saudi Arabia)	Saudi Arabia	1333	4/15/2019	5/13/2019
Gardens Completion Works	Completion of Gardens	Najran Municipality (Saudi Arabia)	Saudi Arabia	267	4/15/2019	5/15/2019
Gardens Maintenance	Maintenance of Gardens	Najran Municipality (Saudi Arabia)	Saudi Arabia	5333	4/14/2019	5/8/2019
Green Areas Maintenance	Maintenance of Green Areas	Aseer Municipality (Saudi Arabia)	Saudi Arabia	2667	4/14/2019	5/7/2019
Gardens, Parks, Green Spaces and Irrigation Networks Maintenance	Maintenance of Gardens, Parks, Green Spaces and Irrigation Networks	Aseer Municipality (Saudi Arabia)	Saudi Arabia	800	4/9/2019	5/6/2019
Gardens, Walkways & Yards Implementation	Implementation of Gardens, Walkways and Yards	Riyadh Municipality (Saudi Arabia)	Saudi Arabia	800	4/8/2019	5/7/2019
Gardens, Walkways and Squares Construction	Construction of Gardens, Walkways and Squares	Qassim Municipality (Saudi Arabia)	Saudi Arabia	533	4/8/2019	5/8/2019
Maintenance Services	Maintenance Service for Landscaping and Potted Plants	Public Authority for Civil Aviation (Oman)	Oman	128	4/1/2019	5/6/2019
Play Area/ Garden Construction	Construction of Play Area/ Garden for Children	Ministry of Health (Oman)	Oman	64	3/28/2019	5/12/2019



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