

Land Planners
Landscape Architects
Urban Designers
Placemakers

Placemaking
for Better
Sustainable
Environments



Ways, Sites + Icons

Plan + Design Reviews

ALL ENGAGEMENTS

PROFILE

2020 - 2021

T +632.755.9042
M1 +63917.813.2363
M2 +63949.364.2132
E tap.greenedge@gmail.com
W www.greenedgedesign.net

ABOUT US
SERVICES
PROJECTS

What We Do

PLACEMAKING

- SITE + LAND PLANNING
- LANDSCAPE ARCHITECTURE
- URBAN DESIGN
- PERMACULTURE
- ENVIRONMENTAL ART

- leisure + hospitality
- campuses
- townships
- nature + farm resorts
- historic conservation
- public realm
- resource conservation



Land Planners

Landscape Architects

Placemakers

Our Ethos



Even before LEED went fad and green got gold, practical experience spanning 35 years, underpinned by our interdisciplinary outlook and an overarching mesh with sustainable design has driven our work.

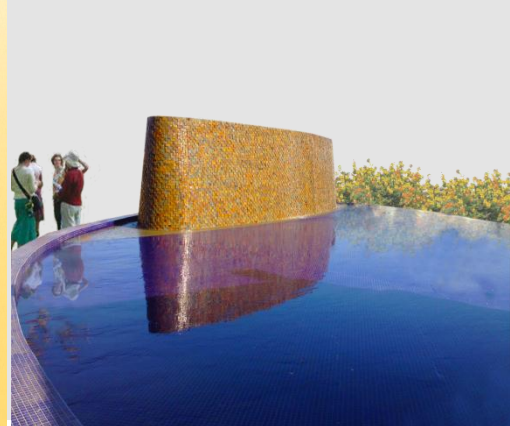
Our hands-on experience in both the humid and arid tropics brings together the synergies of resource conservation, a rich understanding of various cultural and historical contexts, urban-rural dynamics and code-compliance.

Over this, we fold in the client's corporate branding and market positioning that include upscale, iconic projects within sensitive environmental concerns.



Folio of Projects

For a downloadable full brochure of our projects folio, visit www.greenedgedesign.net



Placemaking for Better Sustainable Environments

- T +632.755.9042
- M1 +63917.813.2363
- M2 +63949.364.2132
- E tap.greenedge@gmail.com
- W www.greenedgedesign.net

What We Do

Engagements

Placemaking for Better Sustainable Environments

Site + Land Planning

In collaboration with other planning and A+E consultants, we formulate site masterplans for **townships, neighborhoods and special districts** defining land uses, circulation and **green infrastructure** including open spaces, conservation areas and scenic resources

Landscape Architecture

Full-service total-process landscape architecture services from concept to tender documents stage, **Construction supervision** and **Post-construction assistance**

Specialized services include consultations for site selection, **signage and wayfinding, green roofs and vertical greenwalls** among others

Urban Design

Bridging landscape architecture and urban planning, shaping of urban form elements, circulation, and patterns in the public realm, roadways and civic space through policy and design,

Scoping of unified urban site furniture elements

Permaculture

Specialist land and site planning for agroforestry schemes and mixed-use farm resorts bringing together the **synergies of soils science, cropping technologies, water resources management, agricultural engineering, forestry, landscape architecture and tourism planning**

Environmental Art

Empower places with distinctive landmarks that are works of **landscape art**, combining planting, groundshaping, landscape lighting, water effects and one-of-a-kind sculptures that capture a project's **branding signature**

Plan + Design Reviews

Third-party independent reviews of other planning and landscape consultants' work to ensure these meet the Client's objectives, branding, and to ensure work is **complete, buildable, code-compliant and sustainable**

Work shown in this Folio illustrate the range of the Principals' experience having been either engaged or professionally involved in the projects.





About Us

Principals

Principals' Affiliations



Philippine Institute of Environmental Planners [PIEP], Manila



International Federation of Landscape Architects [IFLA], Geneva



Philippine Association of Landscape Architects [PALA], Manila

Placemaking for Better Sustainable Environments

The Principals bring together more than 35 years of collective practical experience in a wide range of upscale high-end projects commissioned locally and overseas.

Work had long been grounded on sustainable design long before LEED went fad, demonstrating the planning and design philosophy behind the practice.

Cecilia Herras-Tence

MTLA | FPALA | MPAPRB
CEO, Managing Director

Adept at managing the design process from concept to tender stage, Cecile brings a proven practical experience in project controls to meet deliverables to Clients, while participating in the design direction of projects.

Her intense analytical, evaluative and coordination skills reach beyond design completion to construction supervision.

M +63917.813.2363
E cshtence@greenedge.com.ph

Marianne Balbuena

MPALA
Studio + Technical Director

Overseeing the design documentation of projects under a common CAD platform, Marianne's design and presentation skills comes with practical know-how on buildability gained from construction supervision. Her signature work is evident in the built grounds for a long-running TV reality show : Pinoy Big Brother.

M +63917.852.4479
E mmb@greenedge.com.ph

Rick A Hilario II

MSc | MPIEP | FPALA
Chair, Technical Services

Rick brings in a rich, interdisciplinary experience in the planning and design of iconic spaces well grounded on the principles of sustainability. Familiar with branding and complex coordination needed by prime property developers, work engaged spans a wide range and depth of projects locally and overseas.

M1 +974.5023.9835
M2 +63998.537.9734
E rah@greenedge.com.ph



About Us

P r i n c i p a l s

Principals' Affiliations



Philippine Institute of Environmental Planners [PIEP], Manila



International Federation of Landscape Architects [IFLA], Geneva



Philippine Association of Landscape Architects [PALA], Manila

Placemaking for Better Sustainable Environments

Creative work in our design studios are managed under time-based project schedules, providing cost-effective, easy to maintain built work on the ground.

Work had long been grounded on sustainable design long before LEED went fad, demonstrating the planning and design philosophy behind the practice.

Ronaldo DC Traballo

CPA | MPICPA
Chief Financial Officer

With a track record of turning around his company that now has a regional presence in Southeast Asia, Ronald brings in a solid experience in **financial management and business strategy**. His years as a consulting **business life coach** is a rich resource of visionary market development, combined with practical experience as a **certified public accountant**.

Gracelyn A Arquisola

Director, Business Development

Riding onto her **civil engineering** education, Grace's early launch as an entrepreneur in the site construction industry brings in her gift for **marketing and business operations**.

Acting as lead for new and recurring business development, her capability for business networking is merged with the goals of the firm's Design Studios.

Consultants

Supporting the firm's services are interdisciplinary resources from various disciplines.

Architecture

Geomatics

Civil Engineering

Graphics Design

Environmental Planning

Financial Analysis + Planning

M +63918.900.4379
E rdt.greenedge@gmail.com

M1 +63917.703.0021
E grace_arquisola@yahoo.com

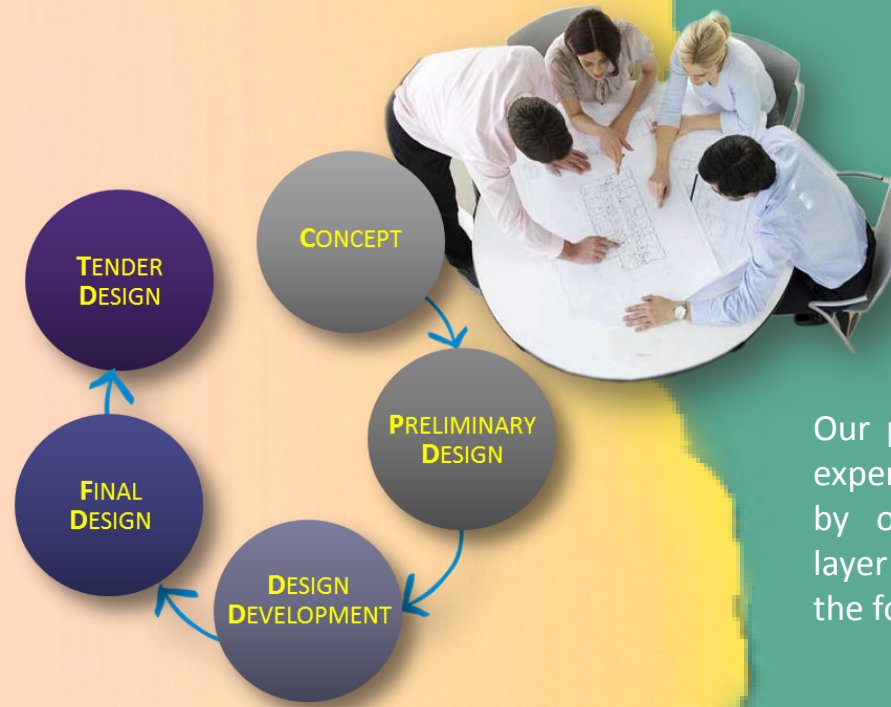


PLACEMAKING PROJECTS

SITE + LAND PLANNING
LANDSCAPE ARCHITECTURE
URBAN DESIGN
PERMACULTURE
ENVIRONMENTAL ART

OUR RANGE Ways, Sites + Icons

Local + International
Plot to Township Scale
Arid + Humid Tropics
Corporate, Government + Institutional
Planned Developments
Public Realm



PLAN + DESIGN REVIEWS

Our principals have the expertise and experience to review plans and designs by other Consultants, performing a layer of **insurance of compliance** for the following, as the **6Cs**.

Reviews cover the entire design process from **Concept** to **Tender Design** stages, or for selected stages

6Cs
+
2

- C O M P L E T E N E S S
- C O R R E C T N E S S
- C O R R O B O R A T I O N
- C O N S I S T E N C Y
- C O N S T R U C T I B I L I T Y
- C O D E - C O M P L I A N C E
- S U S T A I N A B I L I T Y
- B R A N D I N G

Planning

Site Planning Leisure + Hospitality

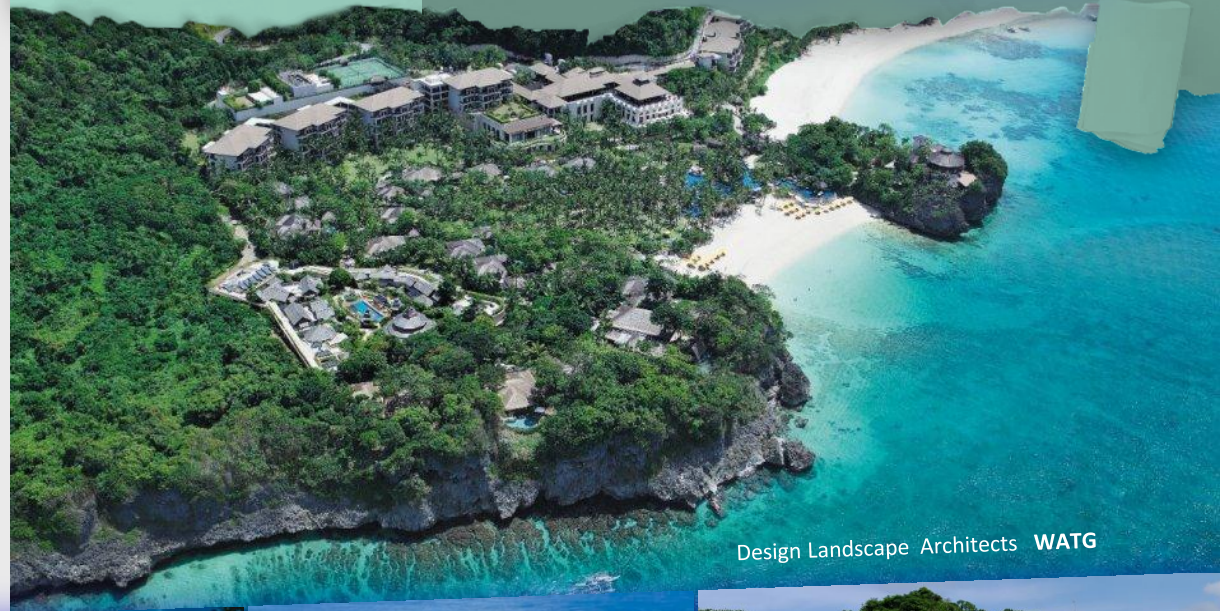
Masterplan, Island Resort

Punta Bunga Beach,
Boracay Island Aklan, Philippines

Prior to Acquisition

Shortly before this planned secluded resort was acquired by the Shangrila resort chain, the masterplan by Manosa Architects was technically reviewed and vetted for meeting various criteria as requested by the then owners.

Although replanned by Shangrila later, the project as built already reflected the various **'best practices'** in site development already covered.



The Shangrila plan by WATG [far left], retained the same general circulation and overall site-structure relationships imposed by the very challenging site topography as recommended in the Review Report. It merely confirmed the earlier potentials assessment for the project.



Planning

Site Planning Leisure + Hospitality

Masterplan, Island Resort

Punta Bunga Beach,
Boracay Island

Aklan, Philippines

Impact of Building Heights on Scenic Resources

The review stressed the siting of structures hugging the slopes in footprints and to heights that **do not block views downslope** into the Sulu Sea.

The recommendation to **improve yields by positioning the more secluded cottages upslope** was retained, with all rooms serviced by electric golfcart paths.



Adding **Value,**
prior to **Land Acquisition**

the assessment from the **Masterplan reviews** made the site attractive for acquisition by the hotel chain



Technical Guidelines, Qatar Urban Design Compendium [UDC]

Policy Guidance on Built Environment, Landscape Urbanism

As part of the Client's Technical Review team, provided the Consultants tasked to author the document with insights into a broadened **scale, typologies, co-located land uses and contexts** of what content the document should scope for a Qatar-wide application.

Beyond just buildings and civic space, it was felt that **infrastructure, transportation and waste management** issues should have visible expressions and design coordination at how plots meet the street and the wider public realm.



Planning



Policy Planning Urban Design



Lead Reviewer, Public Parks Department
Rick A Hilario II
as Projects Engineering Consultant
Document Author[s] **Place Dynamix, Makover Projects**

PROJECT MANAGERS AND LEAD AUTHORS

Urban Design, Planning & Placemaking:



MAKOVER PROJECTS
مكاوير المعمارية

Specialist Disciplines:



Technical Guidelines, Qatar Highway Design Manual [QHDM]



Policy Guidance on Streets and Roads Landscape Design

As part of the Client's Technical Review team, provided the Consultants tasked to update the document with **prescriptive guidelines** for safe and sustainable landscape design for the entire hierarchy of roadways [ie. **highways, collector roads, local roads**].

Policy statements relating to the primary concerns of **walkability, safe access, visual relief, thermal comfort** and **ease of maintenance** were inserted.

Planning



Policy Planning Urban + Transportation Design



Lead Reviewer, Public Parks Department **Rick A Hilario II**
as Projects Engineering Consultant

Document Author[s] **CH2M Consultants**



Masterplan, Kuwait Greenery Programme 1990 - 2010



Policy Guidance on Green Infrastructure

Authored by Kuwait's Institute of Scientific Research [KISR], the longterm masterplan was assessed for technical guidelines for various typologies of the **public realm** [eg. public parks, streetscapes, and special designated parks].

Planning

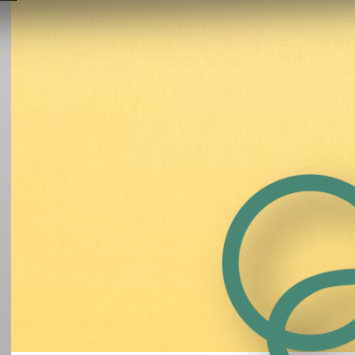


Policy Planning Leisure + Recreation



Action Area Plans

Designated special priority areas were also assessed against a set of criteria as part of the periodic formal review process.



Tourism Zone

Qatar Cultural District

The Corniche Doha Central, Qatar

Recommendations for a more **adapted plant palette** was likewise tabled



Lead Reviewer, Public Parks Department
Rick A Hilario II as Projects Engineering Consultant

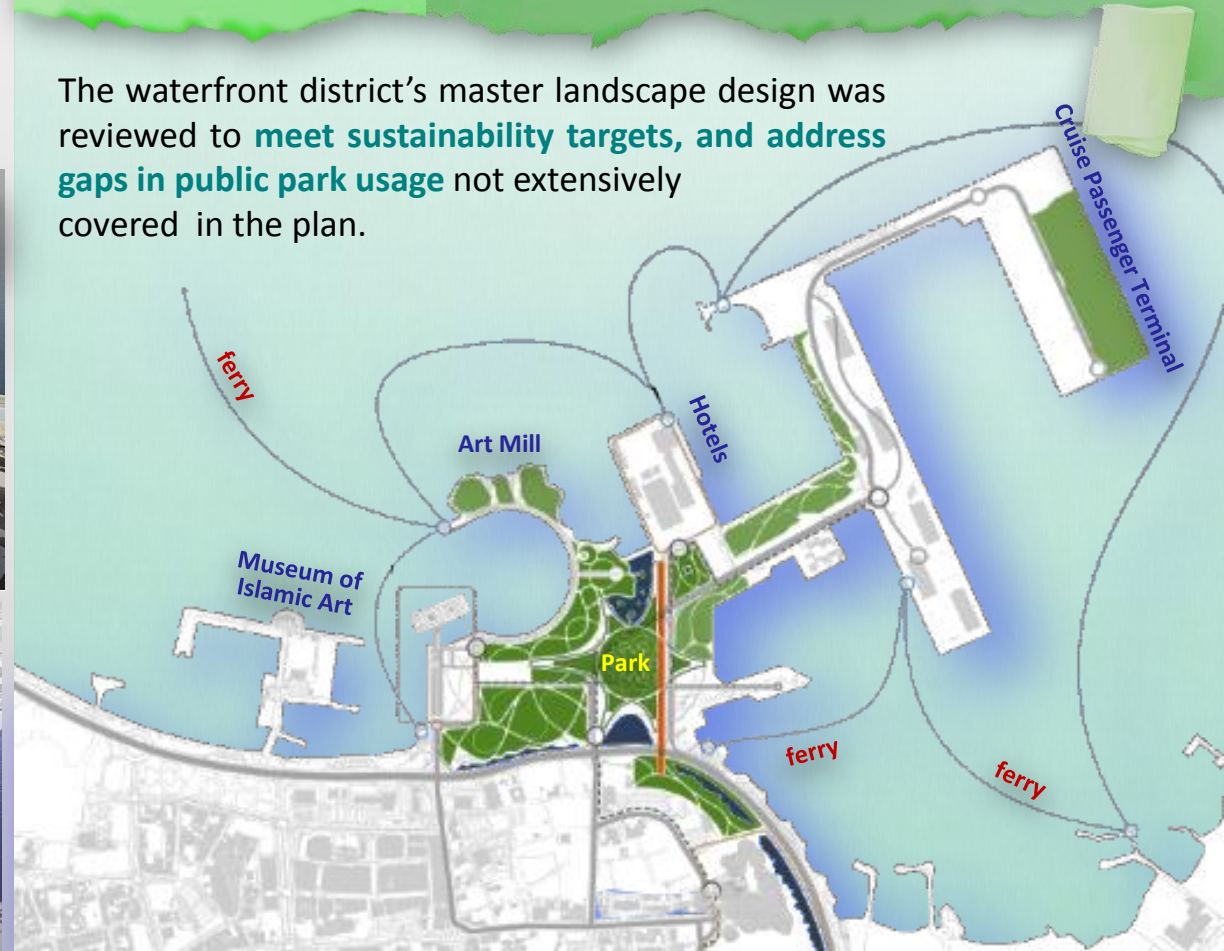
Landscape Architect **James Corner Field Operations**,
designer of **New York City's Highline Park in Manhattan**
[images at right]

Design

Landscape Architecture

Leisure + Tourism

The waterfront district's master landscape design was reviewed to **meet sustainability targets, and address gaps in public park usage** not extensively covered in the plan.



Design

Landscape Architecture Leisure + Hospitality

Residential Resort, La Plage South

The Pearl Doha, Qatar



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **Dar Al Handasah**

The reviews ensured designs were to **tender quality** [eg. buildable, could be reliably priced] and compliant to the client's **branding requirements**.

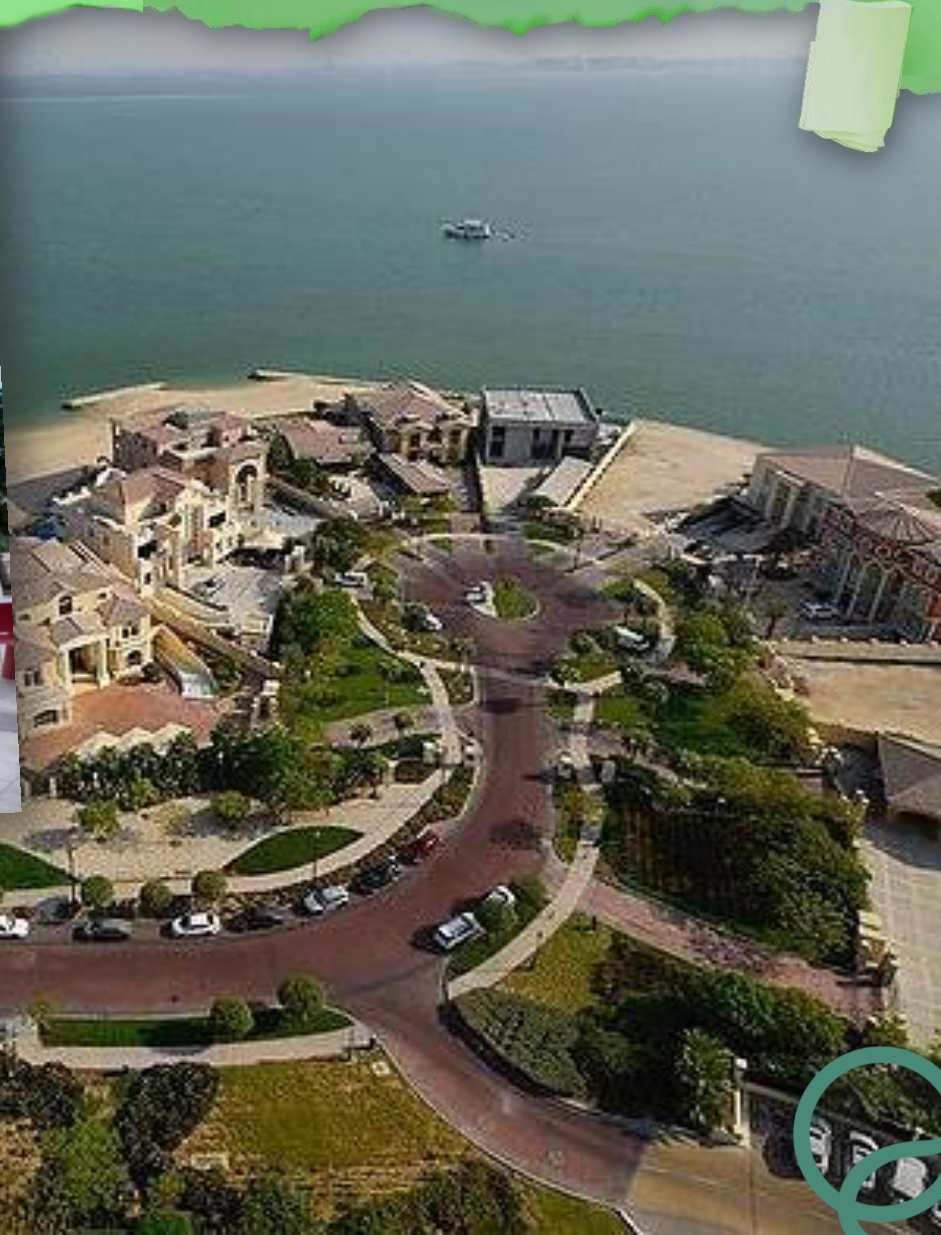


Design

Landscape Architecture Leisure + Hospitality

Residential Resort, La Plage South

The Pearl Doha, Qatar



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **Dar Al Handasah**



Public Parks

Al Rayyan, Qatar

Fence Design in Public Realm

As fences are deemed essential in Qatar's public parks, the next generation of parks design being rolled out also address this most visible aspect of the public realm. The design integrates signage and wayfinding using walls as **identifying markers**.

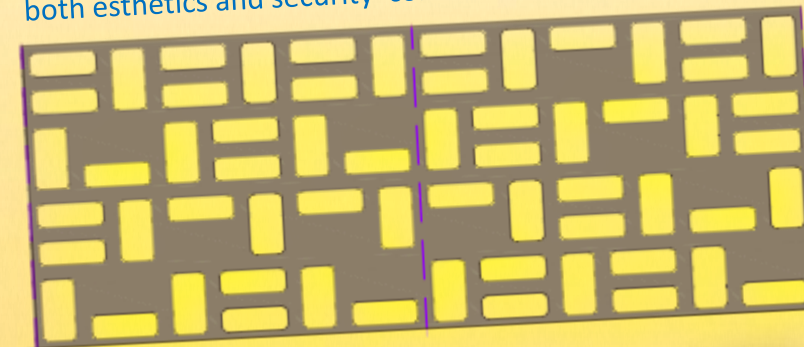


Design

Urban Design Leisure + Recreation



Design guidance for the right balance of **transparency and opacity** had been required, to meet both esthetics and security concerns.



Lead Reviewer, Public Parks Department **Rick A Hilario II** as Projects Engineering Consultant
Landscape Architecture Design **Promontorio SPA**



Public Parks

Al Rayyan, Qatar

Water Features in Civic Space

Guidance for the design of water features were for **low-flow, low-volume** systems for ease of operations and maintenance [O+M].

Interactive

Edges had to be permeable to allow pedestrian interaction with water.

Design

Urban Design Leisure + Recreation



Lead Reviewer, Public Parks Department Rick A Hilario II
as Projects Engineering Consultant
Landscape Architecture Design Promontorio SPA

Design guidance for the right balance of **transparency and opacity** had been required, to meet both esthetics and security concerns.



Design

Landscape Architecture Educational Institution

University, Arab Open University Jordan

Amman, Jordan

Right-sizing the quality gradients for the paving materials focused on more upscale surfacing materials for key access points and gathering places to meet cost-effective objectives.

Negotiations with the structural engineering design were required to **allow for large planting at roofdecks** over structural slabs.



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **KEO International**

The site's sloping topography required vetting the exterior **site grade elevations in relation to proposed access points**, allowing for ADA-compliance for the handicapped .



Design

Landscape Architecture Mixed-Use Highrise

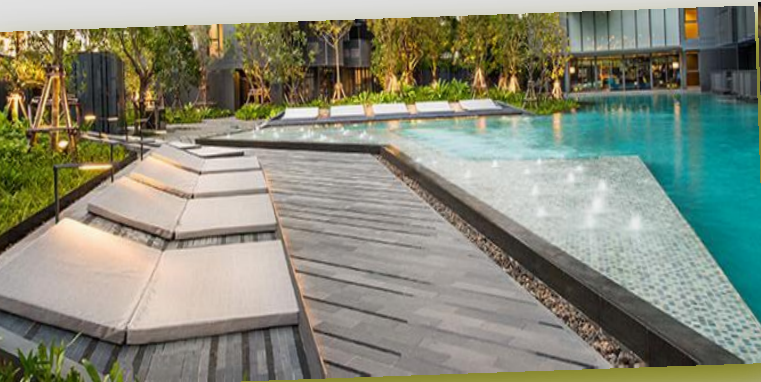
Office, Residence + Commercial Towers The **Wings**, Plot 22

Reem Island

Abu Dhabi, UAE

Accessibility

The recreation podiums, split-level in certain zones, had to be accessed by ramps in meeting ADA-compliance. Site furniture selections allowed for barrier-free access.



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**
Design Architects **KEO International**



Environmental Graphics Design

Education City Al Rayyan, Qatar

Hierarchy of Signage Elements

Types of signage were required to conform to an **hierarchy** that included, a full family of unified elements that included **placemarking, welcome and informative, directional** and **regulatory** signage among others *[above left]*.

Project Management Design Review KEO International
Landscape Design Lead Reviewer Rick A Hilario II while with KEO

Landscape Design Architects EDAW-AECOM

Paving-Integrated Signage

No-paint, durable solutions included signage for marking **dedicated or shared surfaces for bikelanes**, and **distance markers** for jogging tracks *[below left]*.

Design

Directional



Placemarking + Informative



Urban Design Signage + Wayfinding



Directional



Placemarking



Environmental Graphics Design

Madinat Al Shamal Park Al Shamal, Qatar

Family of Signage Elements

Guidance for the design of signage and wayfinding system covered **font design, graphics, scale and overall unity of character** to evoke the marine theme of the project.

Paving Integrated

Carpark directional and slot numbering markers *[below]* were integrated with the paving design in lieu of thermoplastic painted lines.

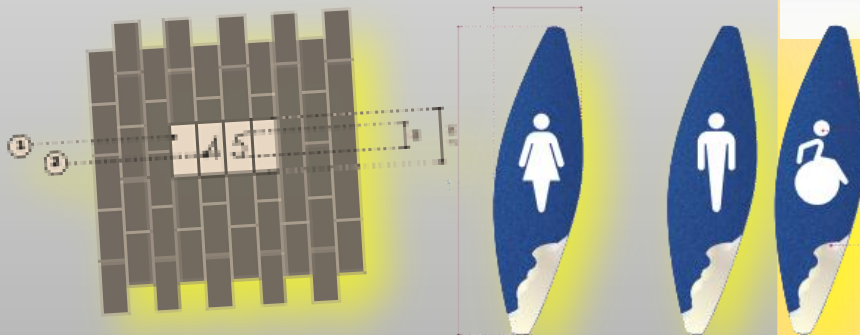
Design

Urban Design Signage + Wayfinding



Lead Reviewer, Public Parks Department **Rick A Hilario II** as Projects Engineering Consultant
Signage Design **Limah**

Building signage *[left]* was likewise matched to those of the site exteriors in an overarching theme.



Design

Landscape Architecture Office Development

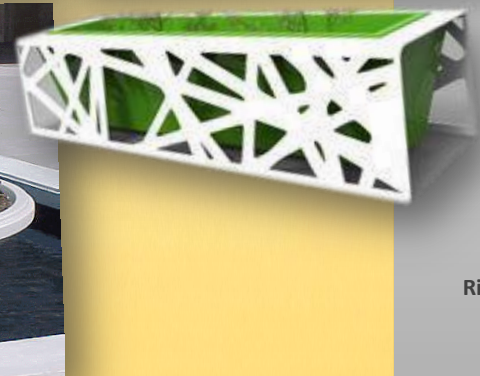
Office Towers, International Bank of Qatar

West Bay

Doha, Qatar

Doha's 'Empire State'

The Al Asmakh towers sport a spartan minimalist landscape branding for its ground level, marrying site elements that **double up as perimeter security barriers** as well.



Design Architects
Cohn Fox + Pederson

Lead Design Reviewer,
Rick A Hilario II while with KEO



Design



القطرية
Qatar Foundation

Various Facilities, Education City

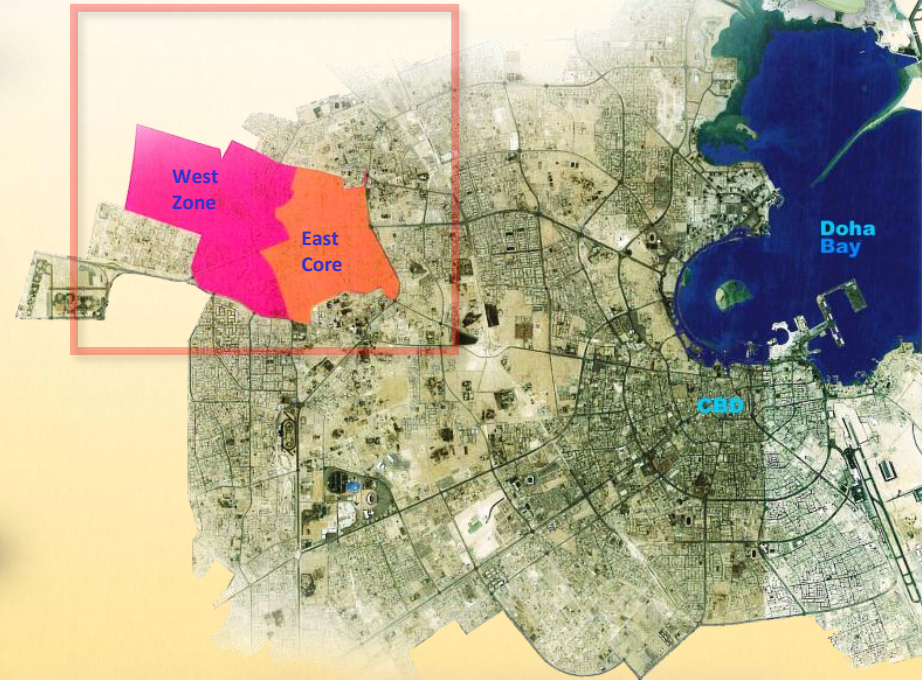
Al Rayyan Education City, Qatar

The following pages outline the **design reviews done** under an overall project management service for various facilities within Education City's eastern core campus in Qatar.



Landscape Architecture Educational Institution

The Education City
1,300 hectares



Creating a **City-wide Brand Image**

folded into the review process was the Client's **overarching city-wide branding requirements** that projected a unified yet differentiated building character for the various facilities and infrastructure.



Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar

Exterior + Interior Spaces

All landscape spaces within the facility had to pass design reviews **from concept to tender design stages**. Fit-to-purpose of materials and the buildability of systems and assemblies were a prime concern.

Design

Landscape Architecture Educational Institution



Design Architects MYAA

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**



Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar

Value Engineering, Twin Minarets as Site Symbols

The twin minarets innovatively designed as airfoils *[image right]* was a distinct feature. Its huge cost however brought it under a value engineering review to determine if it should be retained.

The review report from landscape architecture favored its retention on the basis that **not all can be valued in strictly monetary terms. The minarets functioned as site symbols visible from miles around, and are fitting beacons for the campus.**

The clients, Qatar Foundation, acceded to this view and adopted its retention.

Design

Landscape Architecture Educational Institution



What for,
90 meters high?

the **90-meter** tapered and cantilevered minarets designed by MYAA Architects, were retained on rendering an opinion that their **symbolic value as site beacons** to the campus were an important branding statement

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with KEO

Design Architects **MYAA**

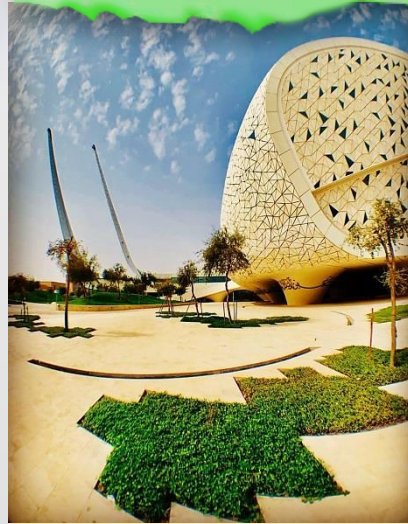


Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar



Design



Landscape Architecture Educational Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **MYAA**

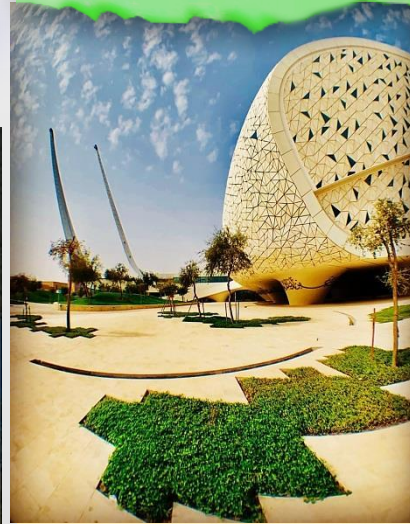


Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar



Design



Landscape Architecture Educational Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **MYAA**



Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar

Value Engineering, Earth Berms

The vegetated earthberms, also because of their substantial earth-moving cost *[image right]* came under a value engineering review to determine if it should be retained.

The barrier happens to be the best possible shield against traffic noise pollution from the bounding highway that would have otherwise impacted the function of the garden break-out spaces on which classrooms opened up to.

On the best practice that **visual barriers are also the best sound barriers, and as confirmed by later acoustic modelling studies by Arup**, the berms were recommended for retention, and con curred with by the clients.

Design

Landscape Architecture Educational Institution



What for, Landforms ?

the **terraced earthberms** were both an acoustic and visual shield against traffic noise impacting on classroom and break-out spaces

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with KEO

Design Architects **MYAA**



Design

Mosque + Islamic Center, Qatar Faculty of Islamic Studies

Education City Al Rayyan, Qatar

Landscaped Earth Berms

The berms [\[below\]](#) have a dual function as an acoustic barrier shielding the classroom break-out courtyards from street traffic noise.

Landscape Architecture Educational Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while
with **KEO**



Qur'anic Gardens [\[above\]](#) contain-
ing species in the Qur'an against a
calligraphy wall backdrop



University,
Northwestern University
College of Media and Communications

Sunken courtyards were an approach taken to resolve grades and falls to slopes. This created value to space on an otherwise featureless terrain.

Decorative yet functional gravel drains merged with the overall xeriscape esthetic for the entire campus.



Design Architect
Antoine Predock



Design

**LEED
Certified
Gold**



Landscape Architecture
Educational Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design

Landscape Architecture Educational Institution

University,
Northwestern University
College of Media and Communications
Al Rayyan Education City, Qatar

Empowering the courtyard spaces as informal social media platforms away from classroom routine was key to managing the design process. The undulating terrain had to engage with its neighboring college, the QFIS.



Design Architect **Antoine Predock**

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**





مكتبة قطر الوطنية
QATAR NATIONAL LIBRARY

Library, Qatar National Library

Education City Al Rayyan, Qatar

Site grading and the fit-to-purpose of proposed hard and softscape materials challenged the design. The technical reviews sought to reconcile clashes and ambiguities to allow buildability.

Design

Landscape Architecture Educational Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II**
while with **KEO**



Drainage for the planting circles Inspired by the desert *'rawdats'* [above leftmost], needed to be technically resolved as this impacted on the structural slab design.

Design Architect **OMA**
Design Landscape Architect **Inside -Outside**



Social Services, Social Development Centre

Education City Al Rayyan, Qatar

Striking enough balance between solar shading and the proposed extent of paving while allowing multiple choices of circulation paths in the main plaza was the design challenge that needed to be resolved.

How the landscape character flowed from outside to inside was likewise one key focus of the reviews.

Design

Landscape Architecture Support Institution



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with KEO

Design Architect **Nabil Gholam Architects**

Research Headquarters, The **Strategic Studies Centre**

Education City Al Rayyan, Qatar

Shared Podium

This facility shares a plaza podium and basement parking with Qatar Foundation's headquarters. The very disciplined, formalistic **cubist xeriscape** character of the landscape dominates this civic space.

Design

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architect **OMA**
Design Landscape Architect **Inside -Outside**

Landscape Architecture Institution



Site Paving and Grading Issues

The proposed travertine paving for the vehicular driveways had to be replaced due to staining from rubber tyre marks from regular use. How the plot's edges met the surrounding roadways through grading required the designers to resolve the gaps in smooth transitions.



Office Headquarters, Qatar Foundation

Education City Al Rayyan, Qatar

Xeriscape Plant Palette

Proposed plant selections had to be vetted for sustainability and viability in Qatar's climate, as well as **commercial availability anticipating long-lead times** for acquisition to desired planting sizes.



Design



القاعدة
Qatar Foundation



Landscape Architecture Institution



Project Management Design Review
KEO International
Landscape Design Lead Reviewer
Rick A Hilario II while with KEO

Design Architect **OMA**
Design Landscape Architect
Inside -Outside



Office Headquarters, Qatar Foundation

Education City Al Rayyan, Qatar

Cubist Xeriscape

Proposed plant selections had to be vetted for sustainability and viability while paving and surfacing hardscape materials were likewise for fit-to-purpose and durability.

Design



Landscape Architecture Institution



mechanical vents had to be cleverly concealed within the upstand planters to avoid visual clutter [right].



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer
Rick A Hilario II while with **KEO**

Design Architect **OMA**
Design Landscape Architect
Inside -Outside



Design

Landscape Architecture Infrastructure

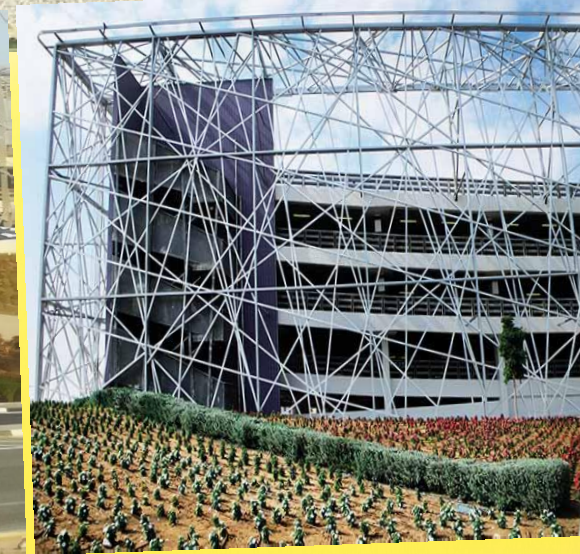
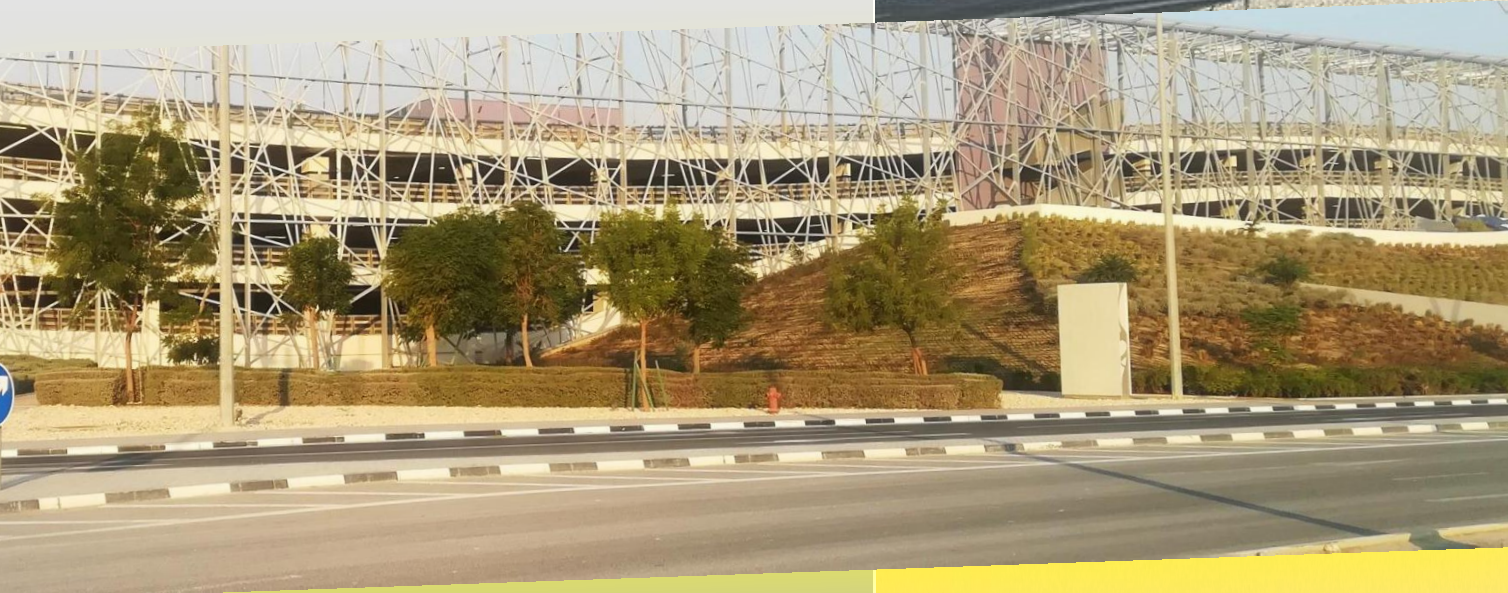
Parking Facility Northwest Carpark Building

Education City

Al Rayyan, Qatar

Bermed Perimeter

Softening the architectural lines, a **bermed perimeter of stabilized slopes** of planting was required as for visual relief.



Design Architect **Burns + McDonnell**

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

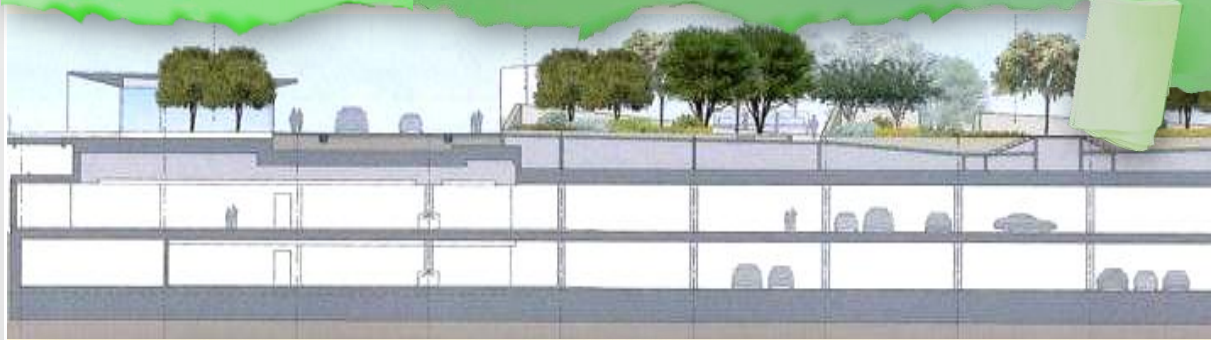




Parking Facility
Southeast Carpark Building
Education City Al Rayyan, Qatar

Design

Landscape Architecture
Infrastructure



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**
Design Architects **Burns + McDonnell**

Multi-level Greenroof Promenade

More than just a parking facility, the structure's deck is an actively used greenroof designed as a **park-like promenade**. Raised planting berms offers screened privacy and outdoor lounging.



Parking Facility
Southeast Carpark Building
Education City
Al Rayyan, Qatar

Design

Landscape Architecture Infrastructure



mastaba seating



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**

Design Architects **Burns + McDonnell**

Seating Niches

Modelled after the traditional Arabic **mastaba, seating niches** were incorporated for seclusion and privacy. Wall cladding patterns echoed that of the paving.



Transportation Network People Mover Corridor [PMC]

Education City Al Rayyan, Qatar

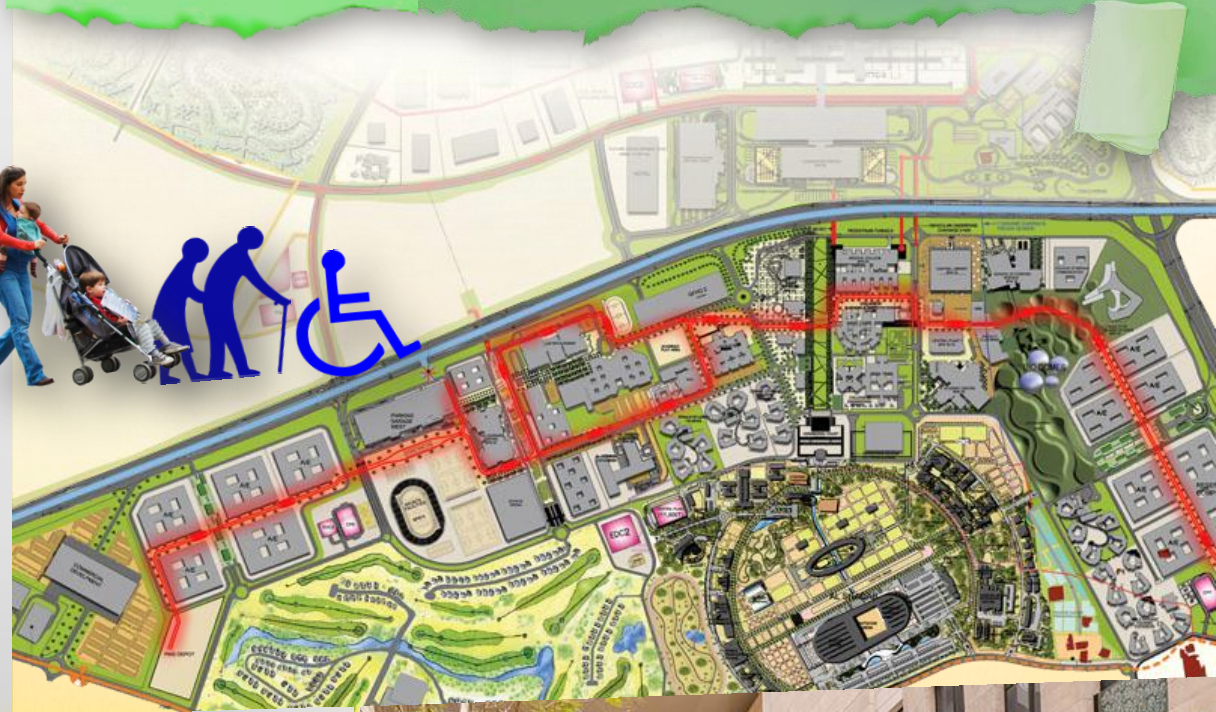
Multi-Modal Connectivity

Siting of stations in proximity to campus buildings [route in red, image across] were reviewed, including the landscape and urban design of stations and the corridor route. Ensuring modal connectivity for bikers and walkers needed to accommodate the necessary biking infrastructure.

Project Management Design Review KEO International
Landscape Design Lead Reviewer Rick A Hilario II while with KEO
Urban Designers AECOM

Design

Landscape Architecture
Infrastructure



Convention Facility, National Convention Center

Education City Al Rayyan, Qatar

Extension Wing

The extension, at the backside of the iconic main hall, enlarges the full capacity for larger events. An elevated footbridge connects both halls and was redesigned with a **shaded canopy** to improve the crossing experience.

Sustainability rating to LEED Gold was achieved in a number of strategies in which landscape design's contributions were in **water-wise planting**, **shielding against solar exposure** and **reducing the heat-island effect** and **low-wattage landscape lighting**.

Project Management Design Review KEO International
Landscape Design Lead Reviewer
Rick A Hilario II while with KEO

Executive Architects Burns + McDonnell



**LEED
Certified
Gold**

Design



Landscape Architecture Institution



Parks, Oxygen Park

Education City Al Rayyan, Qatar

Centrally located and accessible from many university buildings and offices, the park is already a popular destination for active and passive activities. Its **wide open greens, play pitches, flowing paths and dedicated jogging tracks** are unlike Qatar's public parks.

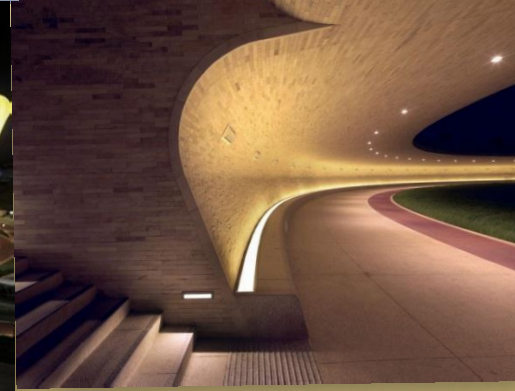
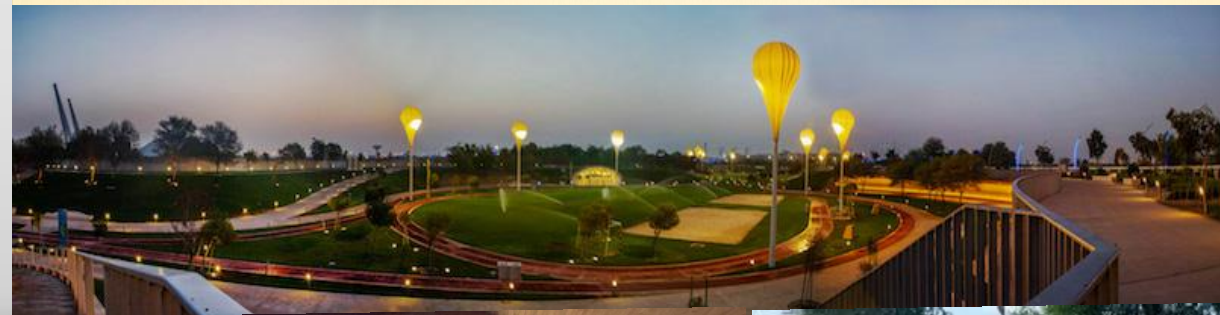
The **varied topography** offers visually interesting vantage points and kinetic experience, as with a number of **themed gardens** that are located in the quieter zones off the main sports field and greens.

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with KEO

Design Landscape Architects **EDAW-AECOM**

Design

Landscape Architecture Leisure + Recreation



Parks, Oxygen Park

Education City Al Rayyan, Qatar



Design

Landscape Architecture Leisure + Recreation



Design Landscape Architects **EDAW-AECOM**

Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**



Parks, **Oxygen Park**
Education City Al Rayyan, Qatar

Design

Landscape Architecture
Leisure + Recreation

cladding for ceilings and walls had to require a random distribution of **glazed linear tile inserts** designed to passively **glitter and glow in the dark** without need for power



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer: **Rick A Hilario II** while with **KEO**



Design Landscape Architects
EDAW-AECOM

stepseats hug the slope contours in flowing geometry, with trees strategically located within the benched terraces for shade



Parks, Western Green Spine

Al Rayyan

Education City, Qatar



Design



Landscape Architecture Leisure + Recreation



Linear Park

This strip is already a popularly used active zone for **active sports and play, whether day or night**. The sunken gamecourts ensure **safer play** from the traffic of the bounding streets.

Project Management Design Review KEO International
Landscape Design Lead Reviewer Rick A Hilario II while with KEO
Design Landscape Architects EDWA-AECOM



Design

Landscape Architecture Leisure + Recreation

Parks, **Western Green Spine**

Al Rayyan

Education City, Qatar

Shading Strategy

Natural shading by **groves of trees or covered walkways** and parking were required as essential to the project.

Pathways through spaces were visually cued by paving to engage pedestrians into the shaded groves.



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**
Design Landscape Architects **EDAW-AECOM**

Departing from the common shade fabric structures, the design brief required **innovative solutions to using shade fabric** in a more unique esthetic resulting to these **bespoke configurations**.



Design

Landscape Architecture Leisure + Recreation

Parks, **Western Green Spine**

Al Rayyan

Education City, Qatar

Lighting Strategy

Site lighting was deemed particularly important for this space for night-time use when summer outdoor temperatures are cooler. Reviews had to ensure the **correct levels of lighting, the locations and types of fixtures.**

Tree grate design had to ensure at least a tandem of twin lightports that allowed balanced uplighting.

All other lighting had **beams directed downwards** in keeping with sustainable objectives of a **'dark skies' policy.**

Project Management Design Review
KEO International

Landscape Design Lead Reviewer
Rick A Hilario II while with KEO



Design Landscape Architects
EDAW-AECOM



Design

Landscape Architecture Green Infrastructure

Campus Unified Landscape 'Qatar in Spring' Strategy

Al Rayyan Education City, Qatar

Waterwise Planting

In meeting sustainability objectives, the local preference for 'carpet greenery' had to take a backseat as a matter of policy. A **new esthetic** in which hardscape played a major defining role as much as planting had to be socially engineered for resource conservation reasons.

To meet the demand for non-traditional species, establishing the support infrastructure for **propagation nurseries** had to be folded into the overall strategy.



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with **KEO**
Design Landscape Architects **EDAW-AECOM**



Design

Landscape Architecture Green Infrastructure

Campus Unified Landscape 'Qatar in Spring' Strategy

Al Rayyan

Education City, Qatar



Project Management Design Review **KEO International**
Landscape Design Lead Reviewer **Rick A Hilario II** while with KEO

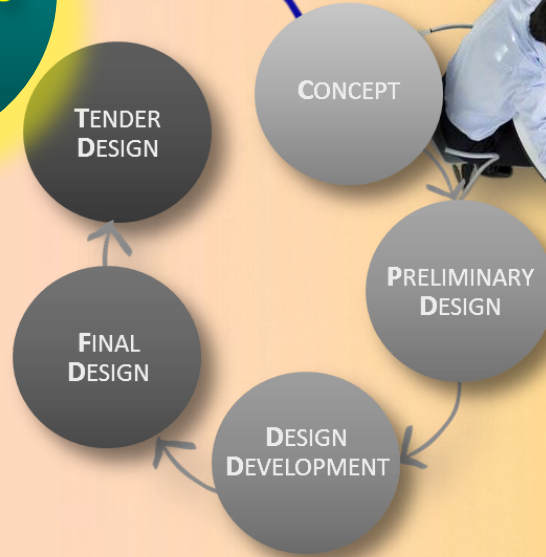
Design Landscape Architects
EDAW-AECOM

A Vibrant Xeriscape

Contrary to a perceived drabness, an overarching unified landscape was hinged on a core palette of **colorful adapted and native species** for a campus-wide esthetic, to which all projects referred to.



BRANDING



on to 2019

P L A N +
D E S I G N
R E V I E W S

Reviews for compliance to Client's branding covered the public realm wrapping around the **Education City**, ensuring a **district-wide convergence and uniform landscape character**.

The results of these reviews are evident in images taken in October 2019 of the executed designs for **green infrastructure of Khalifa Avenue** shown in the following pages.

Tie-in to Education City Khalifa Avenue

Al Rayyan merge to Education City, Qatar



Design

Landscape Architecture Green Infrastructure



Project Management **QD-SBG**
Landscape Design Lead Reviewer **Rick A Hilario II** as
Project Engineering Consultant, **Public Parks Department-MME**

Design Landscape Architects
Dar Al Handasah

Design

Landscape Architecture Green Infrastructure

Tie-in to Education City Khalifa Avenue

Al Rayyan merge to Education City, Qatar



Project Management QD-SBG
Landscape Design Lead Reviewer Rick A Hilario II as
Project Engineering Consultant, Public Parks Department-MME

Design Landscape Architects
Dar Al Handasah

Branding Commitment

Given the project's special status, ensuring that branding requirements were met, including **how planting and paving would wrap around site structures** [eg. bus shelters] were looked into.

bus shelter



Placemaking
for Better
Sustainable
Environments

Land Planners
Landscape Architects
Urban Designers

Place
Makers

MANILA | DAVAO



Ways, Sites + Icons

HEAD OFFICE

26G Main Avenue
Cubao, Quezon City 1109
Metromanila, The Philippines

T +632.755.9042
M1 +63917.813.2363
M2 +63949.364.2132
E tap.greenedge@gmail.com
W www.greenedgedesign.net

GREENEDGE

BRANCH OFFICE

Unit 8 2F
SJRDC Building 2
Insular Village Phase 1
Lanang 8000, Davao City
The Philippines
M1 +63949.164.0065