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## SELECTED PROJECTS

- Jeddah Tower
- Museum of the Built Environment
- Riyadh Residential Development
- Office of the Future
- Damac Heights
- Aloft City Centre Hotel
- Zayed Military Hospital
- Al Maryah Central
- Al Hilal Bank Tower
- OQYANA World First
- Hazza Bin Zayed Stadium
- Skyview 456
- Four Seasons Bahrain
- Basrah Sports City
- Al Mena Sports Complex
- Langan International Middle East Qualifications

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## JEDDAH TOWER

Location: Jeddah, Kingdom of Saudi Arabia  
Client: Jeddah Economic Company  
Architect: Adrian Smith + Gordon Gill Architecture  
Partner: Thornton Tomasetti, RWDI  
Services: Geotechnical, Site/Civil, Traffic & Transportation

### OVERVIEW

Rising 1,000 meters (3,280 feet) into the Arabian sky, the tower will eclipse the reigning tallest building by 173 meters (568 feet). The first phase of the Kingdom City comprises the Tower, a 65,000-square-meter retail mall, and a 3,000+ car underground garage. Langan's role has included the development and oversight of the site subsurface investigation, final design of the piles in collaboration with the design team, stormwater management and integration of the circulation and volume demands of the Tower and retail building into the traffic master plan for Jeddah's Kingdom City.

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## MUSEUM OF THE BUILT ENVIRONMENT

Location: Riyadh, Kingdom of Saudi Arabia  
Architect: FXFOWLE  
Partner: Thornton Tomasetti, DeSimone Consulting Engineers  
Services: Site/Civil, Traffic & Transportation

### OVERVIEW

This 31,580-square-meter museum will host permanent and temporary exhibitions that interpret the historical development of Arts and Architecture in the Arabian Peninsula and will educate visitors on the important role that social, economic, and environmental issues have played in the region. Langan's site/civil scope included schematic design that included review of the site survey, utilities, and design standards for grading and stormwater management for the site's plaza and open spaces. Langan's traffic engineering services included support for the museum's interior parking and exterior access/circulation.

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## RIYADH RESIDENTIAL DEVELOPMENT

Location: Riyadh, Kingdom of Saudi Arabia (KSA)  
Client: Confidential  
Architect: Munoz+Albin Architecture and Planning  
Services: Site/Civil, Geotechnical, Traffic & Transportation

### OVERVIEW

Langan specifically provided a multi-disciplinary team to assist in the development of the sustainable master plan for the 130,000 sq m site. The centerpiece of the development will be a large central amenity building at the end of a heavily landscaped wide-well pedestrian path. The central amenity building and path will be surrounded by several large swimming pools and varying densities of residential housing. The entire site combines high-level security with a resort quality ambiance. Given the project's high standard for sustainability Langan's LEED accredited professionals coordinated grey and black water treatment systems with the irrigation water system to provide the most efficient use of water possible.

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## OFFICE OF THE FUTURE

Location: Dubai, United Arab Emirates

Client: Syska Hennessy Group, Inc.

Services: Site/Civil

### OVERVIEW

Launched in April 2016, Dubai's 3D Printing Strategy aims to have 30 percent of the city's buildings 3D printed by 2030. Langan provided site/civil engineering services for the world's first †3D printed office† in Dubai, which opened over Summer 2016. The building houses the offices of the Dubai Future Foundation and took 17 days to build by a 3D printer with a robotic arm. The 3D printed building is a model for sustainability due to the lower costs and faster delivery.

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## DAMAC HEIGHTS

Location: Dubai, United Arab Emirates  
Client: Ramboll Middle East  
Architect: Aedas Architects  
Partner: Damac Heights  
Services: Geotechnical

### OVERVIEW

Located in the Dubai Marina, this 85-floor (420-meter tall) skyscraper will be the tallest tower in its vicinity. Langan's services included a geotechnical review of the enabling work for the development related to dewatering issues at the project site and movement of the diaphragm wall of the adjacent Diamond Tower. Based on our review of the various documents and conversations with our client, Langan concluded that the deflection of the Diamond Tower diaphragm wall was the direct result of an inadequate shoring design and lack of proper monitoring during excavation.

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## ALOFT CITY CENTRE HOTEL

Location: Deira, Dubai, United Arab Emirates  
Client: Robert Bird Group  
Partner: Laing O'Rourke  
Services: Geotechnical

### OVERVIEW

The Aloft City Centre is a new hotel developed by Majid Al Futtaim adjacent to the existing Deira City Centre Mall. Situated on the southern side of the mall, off Baniyas Road, the hotel will include a mix of standard rooms and suites, and will offer views to the Dubai Creek Gold and Yacht Club, Dubai Creek, and the skyline of Dubai. Langan provided full geotechnical engineering services on the project.

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## ZAYED MILITARY HOSPITAL

Location: Abu Dhabi, United Arab Emirates  
Client: Abu Dhabi Command of Military Works  
Architect: Leo A Daly  
Services: Site/Civil

### OVERVIEW

The new hospital will be a teaching facility which will include 260 single-patient bedrooms and provide a variety of treatment services in cardiology, trauma, and burn care. The project campus also includes separate buildings for an outpatient clinic, a mosque, women's dormitory, 40-bed psychiatric center, military police facilities and a central utility plant. Langan assisted in the conceptual master planning through full design development. We provided design of the site earthwork, grading and drainage, stormwater management, an engineered site layout, roadway materials, regulatory signage, and the site-wide infrastructure.

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## AL MARYAH CENTRAL

Location: Abu Dhabi, United Arab Emirates  
Client: Gulf Related  
Services: Geotechnical, Environmental, Traditional Surveying, Terrestrial Scanning/BIM

### OVERVIEW

This new development on Al Maryah Island will encompass nearly 16 hectares of premier shopping and world class dining. It will seamlessly link to luxury hotels, The Galleria mall, and residential and commercial towers. Langan was retained to carry out full-scale geotechnical and environmental investigations. Langan provided geotechnical recommendations for foundation design, an environmental site investigation, an environmental impact assessment, and a construction environmental management plan. Based on the extensive physical survey data collected at the site and surrounding areas, Langan also developed a 3D Revit survey model.

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## AL HILAL BANK TOWER

**Location:** Al Maryah Island, Abu Dhabi, United Arab Emirates  
**Client:** Al Hilal Bank  
**Architect:** Goettsch Partners  
**Partner:** DeSimone Consulting Engineers, Environmental Systems Design, Al Fara'a General Contracting Co.  
**Services:** Geotechnical, Site/Civil, Traffic & Transportation

### OVERVIEW

Langan provided geotechnical, site/civil, traffic engineering, and parking design services for the Al Hilal Bank Tower. The project includes development of a 24-story commercial tower with nearly 68,000 square meters of gross floor area and associated basement and above-ground car parking, landscaped park areas, and podium-level retail areas.

### AWARDS

2015 Council on Tall Buildings and Urban Habitat Best Tall Building Finalist Award

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## OQYANA WORLD FIRST

Location: Dubai, United Arab Emirates

Client: OQYANA

Services: Geotechnical

### OVERVIEW

OQYANA World First consists of 20 man-made islands that together shape the Australian-continent portion of the World Islands reclaimed in Dubai in 2006. The proposed developments, currently in the early design development phase, will consist of luxury villas, hotels, and commercial buildings with marinas for yachts and private boats. The island edges will predominantly consist of beaches and quay walls.

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## HAZZA BIN ZAYED STADIUM

**Location:** Al Ain, Abu Dhabi, United Arab Emirates  
**Client:** Broadway Malyan  
**Architect:** Pattern Design Limited (Stadium Architect), Mark Habre & Associates (Architect of Record)  
**Partner:** WSP, Thornton Tomasetti, Mott MacDonald, Hoare Lea  
**Services:** Geotechnical, Site/Civil

### OVERVIEW

As part of the UAE's "Plan Al Ain 2030," Langan provided engineering services for a new world-class 25,000-seat stadium to house the Al Ain Football Club (FC). Langan engineers provided a variety of services, including development of the subsurface investigation program, stormwater and sewer system design, and conceptual transportation design.

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## SKYVIEW 456

Location: Dubai, United Arab Emirates  
Architect: Skidmore, Owings & Merrill, LLP  
Services: Geotechnical

### OVERVIEW

The proposed development consists of two 240-meter-plus towers, linked together via a two-story boat-shaped bridge near the top. The towers will house serviced apartments and a hotel. The towers will be surrounded by a common multi-level podium structure and will also share common basement levels for MEP and parking. Langan was hired to assist the structural engineer in obtaining the Dubai Municipality approval for the foundation design of the development within a very short time frame.

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## FOUR SEASONS BAHRAIN

Location: Bahrain Bay, Manama, Kingdom of Bahrain  
Client: Signature Hotels Management Company S.P.C.  
Architect: Skidmore, Owings & Merrill LLP  
Services: Site/Civil, Geotechnical, Traffic & Transportation

### OVERVIEW

Langan is providing site/civil engineering, transportation/parking services, and geotechnical peer review for the fast-tracked design of the iconic Four Seasons Hotel. The project consists of a 50-story, approximately 218-meter hotel tower with associated guest amenities, surface and basement level parking and outdoor facilities on a self-contained and reclaimed island in Bahrain Bay. The hotel is projected to be the tallest tower in the Kingdom of Bahrain.

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## BASRAH SPORTS CITY

Location: Basrah, Iraq  
Client: Iraqi Ministry of Youth and Sport  
Architect: HOK, RMC-Partners  
Partner: Abdullah Al-Jiburi, Thornton Tomasetti, WSP, Lloyd  
Engineering, Cini-Little  
Services: Site/Civil, Geotechnical, Earthquake/Seismic

### OVERVIEW

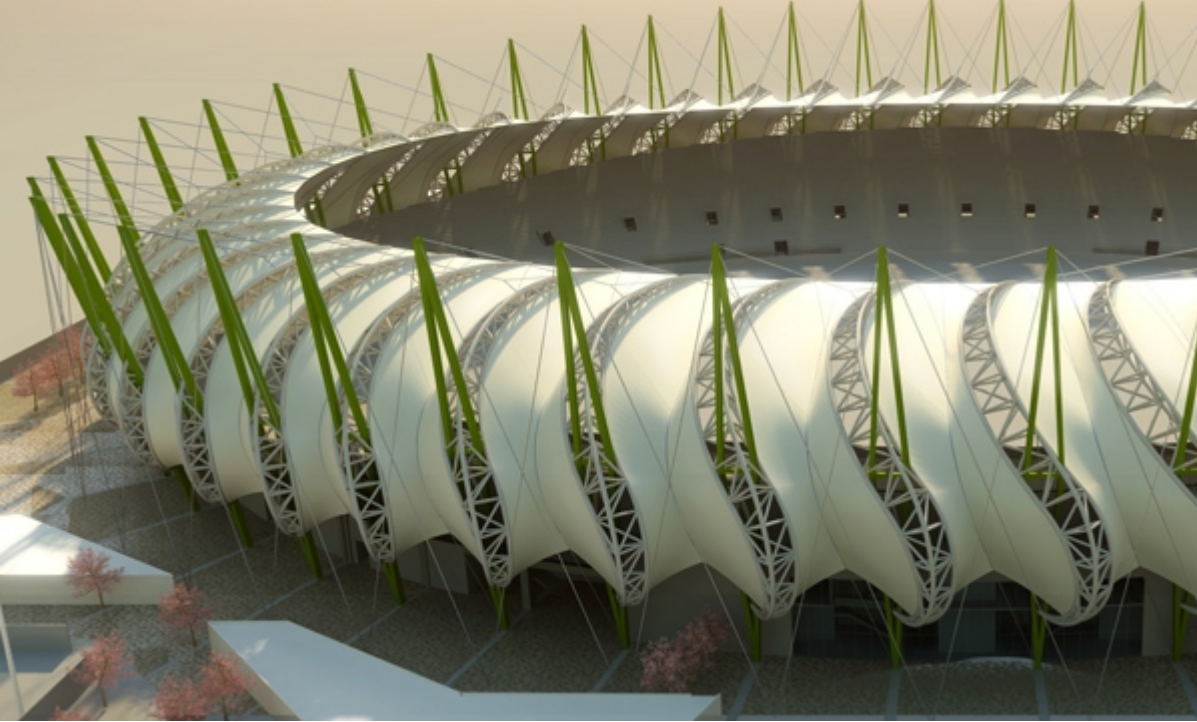
Basrah Sports City is a multi-phase, multi-venue, mixed-use complex planned for the Iraqi port city of Basrah. Phase one of the project, with an estimated cost of approximately \$500 million US, features a 65,000-seat stadium and a 10,000-seat secondary stadium/practice facility each designed to international standards.

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## AL MENAA SPORTS COMPLEX

Location: Al Menaa, Basrah, Iraq  
Client: Iraqi Ministry of Youth and Sport  
Architect: HOK  
Partner: Anwar Soura, Thornton Tomasetti, WSP  
Services: Geotechnical, Site/Civil, Traffic & Transportation

### OVERVIEW

Commissioned by the Iraqi Ministry of Youth and Sport, the 30,000-seat soccer stadium, training fields, roads, plazas and parking are being constructed under a design-build contract. The wave and sail concept for the Al-Menaa stadium reflects the culture and heritage of Basrah, which has a rich nautical tradition as Iraq's port city. The total site area is about 100,000 square meters (24 acres).

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## LANGAN INTERNATIONAL MIDDLE EAST QUALIFICATIONS

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