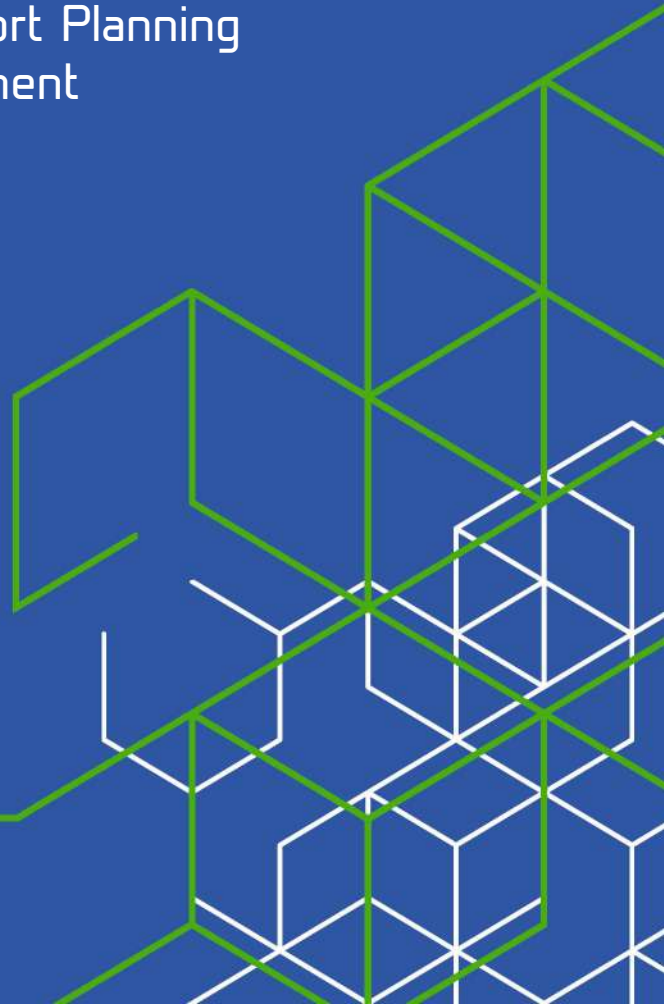


# Traffic & Transport Planning Capability Statement



**At AQLEH Engineering Consultant (AEC),  
our vision is to provide our clients with safe, sustainable, and  
innovative solutions, and services that comply with  
local and international standards.**

AEC has been established since 2006 in Dubai, UAE. We offer a wide range of services for many esteemed clients' that include Transportation Planning, Highways, and Bridges Design, Utilities and Networks Design, Contracts and Cost Consultancy, Construction and Program Management, and Landscaping and Public Realm, aiming to cater for all our client's needs to be provided in one integrated offer.

## **Our Vision**

is to provide our clients with safe, sustainable, and innovative solutions and services that comply with local and international standards.

## **Our Mission**

is to strive to accomplish a professional and creative environment for our staff to be able to apply their knowledge and expertise in a nurturing atmosphere.

## Our Services



### Highways & Bridges

- Highways & Roadway Design
- Intersection Design
- Road Signage Design
- Bridge Structure Design
- Tunnel Engineering & Design



### Infrastructure

- Dry Utilities
- Gravity Network
- Pressurized Network
- Pump Station Design
- Detention / Retention Pond / Tank



### Transportation

- Traffic Impact Studies
- Parking Studies
- Traffic Modeling
- Master Plan Support



### Cost & Consultancy

- Conditions of Contract
- Pre-qualification Tender
- Invitation to Tender
- Tender Analysis
- Contract Award



### Landscaping & Public Realm

- Site Feasibility Studies
- Landscape Design
- Streetscape Design
- Landscape Assessment
- Irrigation Design



### Construction Supervision

- Supervision of Construction
- Quality
- Time & Control
- Claims & Commission

## “Delivering quality comprehensive, cost-effective, Transport Planning Consultancy Services.”

### “Approved RTA Traffic Consultant”

The Transport Planning Team is on the approved list of TIS Consultants with the Roads & Transport Authority (RTA) in Dubai to undertake **Circulation/Access Studies, Level 1 and Level 2** TIS projects. The team is fully aware of the RTA Traffic Department process and requirements to obtain the necessary NOC approvals for our clients.

### “Approved DOT Consultant”

The Transport Planning Team is on the approved list of TIS Consultants with the Department of Traffic (DOT) in Abu Dhabi to undertake **Circulation/TIS (Grade 5) up to 500 trips**. The team is fully aware of the DOT procedures and requirements to obtain the necessary NOC approvals for our clients.

### “A one-stop shop for your TIS & Access Detailed Design projects”

The Transport Planning team are fully supported by its Highways team in developing **Conceptual plans** to obtaining the necessary **Detailed Design NOCs** from the RTA Roads, ROW and Parking Departments to the standard required by the RTA Traffic and Roads Departments.

### “We Can Deliver”

AEC has a proven track record in working closely with our clients and Authorities such as the RTA in order to achieve an optimized and accelerated delivery schedule to fulfil all our clients' goals.

# Capability and Services

## Transport Impact Studies

Analyzing traffic generated by proposed developments with new access or increased use of an existing access and assessing projected impacts and the mitigation measures to ensure traffic can be accommodated on surrounding road networks.

## Traffic Capacity Analysis

The analysis and interpretation of data quantifying highway capacity and quality of service to traffic facilities under different traffic flow conditions using traffic software programs such as Synchro and Sidra.

## Transportation Network/ Master Planning

Urban design and the development of master plans including the layout and density of built form, development phasing, open space, infrastructure, public access and landscape requirements, plus inputs from other disciplines on such issues as servicing, highway or environmental considerations.

## Traffic Simulation

Simulation of transportation systems (e.g., freeway junctions, arterial routes, roundabouts, etc.) through the application of computer software such as VISSIM to better help plan, design and operate transportation systems.

## Parking Studies, Layout & Design

Conduct various types of parking studies and design ranging from surface lot design for retail and office developments to functional parking garage layout and design to share parking studies for complementary uses. In addition to providing comprehensive inventories and demand surveys, forecasts of future need analysis of street circulation, signing and way finding systems, etc.

## Traffic Engineering

Using engineering techniques to achieve the safe and efficient movement of people and goods on roadways. It focuses mainly on research and construction of the infrastructure necessary for safe and efficient traffic flow, such as road geometry, sidewalks and crosswalks, segregated cycle facilities, shared lane marking, traffic signs, road surface markings and traffic lights.

## Projects

A selection of the project experiences are set out below:



### **Project 1: ZEI Educational & Community Facility School, Dubai - Level 2 TIS**

**Client: Archen Engineering Consultants**

AEC was appointed by Archen Engineering Consultants to undertake a TIS for the ZEI Educational & Community Facility School to be located in Al Satwa, Dubai. The TIS was prepared to assess the proposed development in terms of its size, accessibility, parking, and impact on the surrounding road network. The TIS was subsequently approved by the RTA.

### **Project 2: Marriott Hotel Resort, Ras Al Khaimah - Circulation Study**

**Client: Meinhardt**

AEC was appointed for a five Star Beach Marriott Resort Hotel located on a reclaimed peninsula in Ras Al Khaimah. The proposed development shall comprise of a G+5 floors with a projected BUA of 36,000 m<sup>2</sup> and will accommodate 300 rooms. The trips generated development was 184 trips during the PM peak period.

AEC supported the Master Planning team and developed Circulation Study along with reports to support the application.



### Project 3 : MBR Solar Park in Saih Al Dahal Dubai - Level 1 TIS

**Client:** DEWA

MBR Solar Park consists of Solar Innovation center, R&D Building, 3D printed Lab and Hydrogen Plant building, Solar test Facilities, and sub stations with total built up area of 22,806 m<sup>2</sup>, and generating 225 trips in the LT peak. A level 1 TIS has been conducted and approved by the RTA.

### Project 4: Churchill Tower in Business Bay, Dubai - Circulation Study

**Client:** Emirates National Investments

AEC was appointed by ENI to assess and improve the traffic circulation for an existing development at Ground floor level that accommodates two towers (residential 56 floors and commercial 42 floors) and ground floor retail units.

AEC developed several options for the client to review and a preferred option was developed after several consultations with ENI including high level cost estimates.



### **Project 5: Canal West Zone, Dubai Sports Village - Circulation Study**

**Client: Dubai Sports City**

AEC was appointed by Dubai Sports City (DSC) Facilities Services to carry out a Traffic Circulation Study for a proposed one-way system between Road 64 and Road 65 of Canal West Zone in DSC and to address the traffic safety concerns of both students and residents in the study area.



### **Project 6: DIFC Master Plan Update - Level 3 TIS**

**Client: DIFC**

The Dubai International Financial Centre (DIFC) is the premier business hub for Dubai and a key financial marketplace for the region and the whole UAE. The district comprises a mix of offices, retail, residential apartments, hotels and galleries. A TIS was undertaken to establish existing & future traffic, roads and infrastructure conditions, Public Transport and Parking Accessibility review and recommendations.





### **Project 7: Lonestar Laboratory Building, DIP - Circulation Study**

**Client: Lonestar Technical Services LLC**

AEC was commissioned by Lonestar Technical Services LLC to undertake an Access/ Circulation study for their development located in DIP. The project shall comprise of a laboratory and an office with projected GFA of 1,558 m<sup>2</sup>. A circulation study was undertaken to assess the access, and parking arrangements. The circulation plan was submitted to the RTA, who granted NOC approval.



### **Project 8: The Habitat in Dubai Hills Estate, Dubai - Level 1 TIS**

**Client: Studio International Engineering Consultants (SIE)**

The Habitat development shall comprise of three buildings (3 residential with 22, 18, and 6 floors). The 6 floors residential building shall also facilitate 10 retail shops at ground level. The projected GFA is to be 1,284 m<sup>2</sup> and parking shall be common for all three plots at surface and basement levels.

## Project Experience

Below are further projects undertaken by our Transport Planning Team.

| Project  | Client                                  | Type of Study |
|--|---|---------------|
| Montrose Hotel Apartment Tower                 | Deyaar Development                      | Circulation   |
| Residential Building, Dubai Studio City, Dubai | Palma Investment Limited                | Circulation   |
| Retail Building, Dubai Studio City, Dubai      | Palma Investment Limited                | Circulation   |
| Sports Stadium, Al Mizhar First, Dubai         | Best International Civil Construction   | Circulation   |
| Hotel Apartment, JVC, Dubai                    | Al Khawajah Engineering Consultancy     | Circulation   |
| Logistics & Office Facility, Technopark, Dubai | B & A Engineering Consultant            | Circulation   |
| Emirates Printing Press LLC Branch, DIC        | Emirates Printing Press L.L.C           | Level 1       |
| Montrose 1 & 2 Residential Tower, DSP          | Deyaar Development (P.J.S.C)            | Level 1       |
| Residential Building, Wadi Al Safa -7, Dubai   | Continental Investments                 | Level 1       |
| Symphony Tower Five Star Hotel                 | Dubai Civil Engineering L.L.C           | Level 1       |
| Vandis Hotel and Serviced Apartments,DSP       | Vandis Management FZ LLC                | Level 1       |
| Commercial/Residential Building Al Melaheyah   | High Art Engineering Consultants        | Level 2       |
| Emirates International School, Dubai           | Al Habtoor Group                        | Level 2       |
| The Villa, Dubailand, Dubai                    | Dubai Properties Group                  | Level 3       |
| Double Tree Development, Business Bay          | Dubai Properties LLC                    | Level 3       |
| Liwan District Phase-II, Dubai                 | Dubai Land Residences (L.L.C)           | Level 3       |
| Tilal City, Juwaizea area, Sharjah             | Al Marwan Group Holding Co.             | Level 3       |
| AUS-RTI Park, University City, Sharjah         | AUS Enterprises                         | Level 3       |
| Dubai Expo 2020 Village                        | DP World                                | Level 3       |
| Dubai Maritime City, Dubai                     | Dubai Maritime City L.L.C               | Level 3       |
| E3 and NWQ Car Showrooms, Yas Island           | Aldar                                   | TIS           |
| C24 Residential/Commercial Tower, Al Shams     | Aldar                                   | TIS           |
| Sila'a Waterfront Development                  | Dept of Urban Planning & Municipalities | TIS           |
| Warner Bros. Hotel, Yas Island                 | Godwin Austen Johnson Consultants       | TIS           |
| Yas Accomodation, Yas Island                   | Aldar                                   | TIS           |
| Mina Zayed master Plan Phase 1 and 2           | Dept of Urban Planning & Municipalities | TMP           |
| Dubai Urban Master Plan 2020                   | Dubai Municipalities                    | Master Plan   |
| Masdar City - Phase 2 & 5, Abu Dhabi           | Masdar                                  | Master Plan   |
| Dubai Festival City - Project Orchard, Dubai   | Futtaim Investment Management           | Master Plan   |
| Sharjah Transport Master Plan, Sharjah         | Sharjah RTA                             | Master Plan   |

Conceive. Believe. Achieve.



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