Transportational Engineering Design

Services:

- Highway design & interchanges
- Road network design
- Traffic Impact Assessment Studies
- Pavement Structural Design
- Parking Studies
- Tunnels, Bridges & Special Structure
- Traffic Signage
- Mathematical Modeling / Simulation
- Public transit networks and stations
- Demand and Need Evaluation Studies
- Roadway and Bridges Geometric Design
- ITS (Intelligent Transportation Systems)
- Roadway drainage systems
- Design of Airside Airport Facilities (Runways, Taxiways and Apron)
- Material Engineering
- Asphalt Quality Control Works
- Geometric design

Codes and Standards:

- A Policy on Geometric Design of Highways and Streets 2011 (AASHTO Green Book)
- Abu Dhabi – Road Geometric Design Manual
- ARAMCO Technical Guidelines (KSA)
- Dubai – Road Geometric Design Manual
- The Egyptian Code for Urban and Rural Roads Design and Construction
- Geometric Design of Highways and Streets, AASHTO
- Guide for the Development of Bicycle Facilities 1999 (AASHTO bike book)
- Guide for the Geometric Design of Driveways (NCHRP report 659)
- Highway Capacity Manual 2000–(HCM 2000)
- Manual of Uniform Traffic Control Devices (MUTCD) (KSA)
- Ministry of Municipal and Rural Affairs (MOMRA) Road Design Manual (KSA)
- Ministry of Transportation – Highway Design Manual – MOT (KSA)
- MYAS General Design Criteria and Technical Guidelines (KSA)
- Royal Commission for Jubail and Yanbu: Guiding Engineering Manual (GEM) (KSA)
- Standard Specification for Construction Works (Bahrain Ministry of Work)
- Traffic Control System Handbook
- Transit Capacity Manual Third Edition

Software:

- AutoCAD (Drawing 2016)
- AutoDesk Vehicle Tracking (2021)
- Autoturn
- Civil 3D (2021–2023)
- Dynamo C3D
- Navisworks (2021)