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Senior Land Surveyor

Professional Summary

Senior Land Surveyor with over 15 years of experience in land and engineering surveying on large-scale infrastructure, and urban development projects, including Water Transmission Systems, Water & Wastewater, Environment, High-Speed Rail, Aviation, Oil & Gas, Power, Construction Supervision, and Giga & Mega developments (residential towers, townhouses, luxury hotel and hospitality projects, high-rise buildings, retail, mixed-use developments, substations, dry and wet utilities, roads, bridges, tunnels, and water treatment plants) across Saudi Arabia and the GCC. Experienced in site-based construction supervision, verifying contractor setting-out, control points, benchmarks, and reference coordinates against the approved project datum, grid system, drawings, and tolerances for roads, utilities, structures, hardscape, and landscape works. Skilled in leading and coordinating survey teams, reviewing contractor survey reports, layout drawings, as-built and topographic surveys, and coordinating with discipline engineers to support interface and clash avoidance. Proficient with total stations, GPS/GNSS, digital levels, and survey data processing tools, with strong attention to detail, record-keeping, and commitment to HSE requirements and quality procedures. Proven track record of delivering accurate, high-quality, and timely surveying solutions in dynamic, multidisciplinary environments.

Key Responsibilities & Achievements

- Directed daily surveying operations for roads, bridges, highways, tunnels, utilities, buildings, and infrastructure works in accordance with approved drawings, specifications, schedules, and quality requirements.
- Reviewed and verified contractor survey calculations, setting-out records, survey reports, and as-built information against approved design requirements.
- Established and maintained survey control points, benchmarks, reference points, coordinates, gridlines, and levels for construction activities.
- Provided accurate setting-out for foundations, columns, slabs, buildings, roads, utilities, drainage, pipelines, structures, excavation limits, and earthworks.
- Verified coordinates, elevations, alignments, profiles, slopes, cross-sections, dimensions, openings, anchor points, and construction tolerances.
- Reviewed IFC and shop drawings, coordinates, levels, profiles, alignments, and survey requirements before construction activities.
- Conducted topographic, detail, route, construction, and as-built surveys to document existing and completed site conditions.
- Prepared survey reports, red-marked as-builts, coordinate schedules, field records, monitoring records, and technical documentation.
- Coordinated survey requirements with clients, consultants, engineers, contractors, QA/QC teams, and multidisciplinary site teams.
- Supported civil, structural, architectural, facade, MEP, utility, drainage, road, bridge, pipeline, and infrastructure construction activities.
- Performed distance, angle, elevation, area, volume, cut-and-fill, and grading calculations using surveying equipment and software.
- Verified completed construction dimensions, levels, alignments, and locations against approved drawings and specifications.
- Operated Total Stations, GNSS/GPS equipment, digital levels, data collectors, and surveying software for accurate field measurements and data processing.
- Supported field data collection and survey activities in accordance with project HSE, QA/QC, and survey quality requirements.

Professional Experience

Senior Land Surveyor

Jul 2023 – Jul 2025



شركة نقل وتقنيات المياه
WATER TRANSMISSION AND TECHNOLOGIES CO.

SASEC Engineering Consultant (Saudi Arabia) | Abha

Project: WTTTCO (Abha Metropolitan Water Transmission System Phase 2, Parts B)

- Acted as site surveyor verifying the contractor's survey and setting-out works for 36-inch (30 km), 24-inch (4 km), and 16-inch (2 km) water transmission pipelines against approved design and tolerances.
- Checked and confirmed contractor setting-out for 2 storage tanks, electrical buildings, inlet/outlet shafts, and WQM buildings, ensuring compliance with approved drawings.
- Carried out independent checks of TBM tunnel horizontal and vertical alignment using control points, reference coordinates, and leveling techniques to confirm contractor accuracy.
- Verified underground utilities, cable ducts, stormwater pipelines, manholes, valve shafts, and structural elements against approved drawings, identifying and reporting discrepancies.
- Reviewed contractor survey reports, as-built data, coordinates, levels, and setting-out records to support QA/QC and project handover requirements.

Senior Land Surveyor Jun 2021–Jul 2023



المؤسسة العامة لتحلية المياه المالحة
Saline Water Conversion Corporation (SWCC)

Fichtner Engineering Consultant (Germany) | Khobar

Project: SWCC (Khobar to Dammam/Dhahran Water & Transmission Desalination plants)

- Verified the contractor's survey and setting-out for an 80-inch, (23 km) water transmission pipeline route (Khobar to Jamiah), including alignment, stations, coordinates, levels, and construction control against approved drawings and datum.
- Checked and confirmed setting-out for a 170,000 m³ tank, 5 tank foundations, inlet/isolation/control valve shafts, flowmeter shafts, outlet shafts, pump house, WQM, electrical, VSD/transformer, and security control buildings.
- Conducted high-precision horizontal and vertical checks of TBM tunnels and verified pipeline route alignment, elevations, slopes, and survey control points against approved design throughout the transmission corridor.
- Reviewed and supported as-built and construction survey verification for underground utilities, walkable cable ducts, stormwater pipelines, manholes, roads, and associated infrastructure works.

Senior Land Surveyor Oct 2020–Jun 2021



وزارة الدفاع
MINISTRY OF DEFENSE

Saudi Architect Engineering Consultant (Saudi Arabia) | Riyadh

Project: Airport Aviation | Ministry of Defense & Interior (World Defense Air Show 2022) Riyadh, MULHIM

- Verified runway grades, slopes, elevations, taxiway alignments, fillets, centerline, shoulders, and aircraft parking areas against approved aviation designs and tolerances.
- Checked contractor setting-out for taxiways, aprons, parking stands, service roads, car parks, curbs, medians, and pedestrian walkways.
- Verified coordinates and layout for foundations, columns, slabs, manholes, pipelines, and underground stormwater networks, coordinating with discipline engineers to avoid clashes.
- Conducted as-built surveys and verified earthworks, grading, compaction, and paving activities for compliance with approved specifications and HSE requirements.

Senior Land Surveyor Oct 2018–Oct 2020



وزارة الإسكان
MINISTRY OF HOUSING

Al Jaber Group (UAE) | Taif

Project: Ministry of Housing (Sail AL Kabeer), Taif

- Established survey control points, benchmarks, reference coordinates, and setting-out for foundations, columns, slabs, precast walls, buildings, and associated civil works in line with the approved project datum.
- Performed layout and verified levels, alignment, and elevations for roads, box culverts, channels, manholes, drainage networks, and infrastructure works.
- Coordinated with MEP and discipline engineers to support survey works for underground utilities, pipelines, cable routes, chambers, sleeves, and service connections as per approved drawings.
- Prepared as-built surveys and maintained organized survey records to support construction teams and residential building, external works, and infrastructure handover.

Senior Land Surveyor Oct 2017–Sep 2018

Wadi Dafa Contracting Company (Saudi Arabia) | Riyadh



Project: Metro BRT project (Bus Rapid Transit) RCRC Riyadh

- Completed and verified survey and setting-out works for BRT corridors, road centerlines, bridge centerlines and infrastructure, station structures, foundations, piling, curbs, drainage, and earthworks.
- Provided and verified coordinates, levels, and alignments for roads, bridges, flyovers, utilities, duct banks, manholes, catch basins, MEP works, station structures, and pavement against approved drawings.
- Coordinated survey and level verification across civil, electrical, and mechanical disciplines, including equipment foundations, pipe supports, HVAC, firefighting, pump and structural supports, utility chambers, and MEP installations, confirming coordinates, elevations, and alignment.

Senior Land Surveyor Sep 2015–Sep 2017

Hyundai Heavy Engineering (Korean)



Project: J RTP (Jizan Aramco Refinery and Terminal Project) EPC 2

- Prepared and verified layouts for anchor bolt foundations, RTR pipes, stormwater drainage, manholes, and structural elements against approved drawings and tolerances.
- Supervised building structural and civil survey works, including blinding, foundations, columns, and roof slabs.
- Reviewed and verified construction/shop drawings, coordinates, elevations, and layouts to identify and resolve discrepancies and maintain design accuracy.
- Set out and verified coordinates and elevations for HVAC ducts, firefighting points, electrical panels, and other MEP installations, coordinating with discipline engineers.

Senior Land Surveyor Sep 2013–Sep 2015

Hyundai Heavy Engineering (Korean)



Project: Al Hafuf Aramco Power Plant

- Supervised survey and setting-out for HRSG/GTG foundations, pipe racks, electrical/security buildings, warehouses, and gantry tower foundations.
- Executed and verified layouts for stormwater/wastewater drainage, firefighting pipelines, sumps, valve pits, RTR pipes, and manholes with accurate elevations.
- Verified structural levels and coordinates for substations, blinding, foundations, columns, roof slabs, and other civil works against approved drawings and design tolerances.

Land Surveyor Oct 2012–Sep 2013

Sinopec E&C Middle East Co. (China) | Jeddah Municipality



Project: King Fahd Road (Al-Sitteen) – Industrial Institute Intersection Bridge

- Managed survey and verification of setting-out works for a 1.5 km long × 56 m wide bridge with 3 lanes in each direction, including establishing survey control points and benchmarks, setting out pile locations, and carrying out level checks for pile drilling, excavation limits, lean concrete/blinding, pile foundations, pile caps, abutments, piers, pier centerlines, columns, bearings, superstructure, deck slabs, bridge centerline, and road alignment against approved drawings and coordinates.
- Completed alignment, elevation, cross-fall, and grade checks for bridge approaches, expansion joints, parapets, barriers, ramps, roads, curbs, stone, drainage, manholes, catch basins, dry and wet utilities, culverts, utility crossings, duct banks, and tunnels, including temporary traffic diversion works.

Land Survey Inspector Oct 2011–Oct 2012

AL-ID Engineer Consultant (Saudi)



Project: Jizan Tawal Ministry of Transport.

- Verified survey and setting-out works for highway centerlines, alignments, interchanges, bridges, culverts, earthworks, embankments, and road infrastructure against approved drawings.
- Provided and verified coordinates, levels, profiles, and cross-sections for pavement, drainage, utilities, curbs, medians, shoulders, and road structures.
- Prepared survey reports and as-built data, supported QA/QC inspections, and coordinated with construction and MEP teams to resolve discrepancies.



Project: Ministry of Housing, Rawat

- Carried out surveying and setting-out works for roads, concrete structures, asphalt layers, and base courses to ensure accurate alignment and construction quality.
- Checked and verified elevations during cut and fill operations to maintain proper grading and design levels.
- Measured and laid out road centerlines, edges, and parking areas in accordance with project drawings and specifications.
- Marked and verified coordinates for block boundaries, foundations, columns, slabs, manholes, and pipe centers to support construction accuracy.

Core Competencies

- Land, Topographic, Route, Construction, and As-Built Surveys
- Survey Control Networks, Control Points, Benchmarks, and Level Management
- Setting-Out, Dimensional Control, Alignment, Profile, and Elevation Verification
- GNSS RTK, GPS, Total Station, Digital Level, and Data Collectors
- Leica, Sokkia, and Topcon Survey Equipment
- Roads, Pavement, Bridges, Highways, Tunnels, TBM, Earthworks, and Grading
- Water Transmission Pipelines, Utilities, Drainage, Stormwater, and Wastewater
- Foundations, Piling, Excavation, Structural, Civil, and MEP Surveying
- Route Alignment, Trench Profile Surveys, and Pipeline As-Built Verification
- Coordinate Systems, Coordinate Transformations, and Survey Data Processing
- Cut-and-Fill Calculations, Volume Calculations, and Site Grading
- Runway, Taxiway, Apron, Road, and Pavement Surveys
- Utility, Structural, Alignment, and Profile Verification
- As-Built Surveys, Red-Mark Drawings, Survey Reports, and Technical Documentation
- Construction Tolerances, Survey QC, QA/QC, and Equipment Calibration
- AutoCAD, Civil 3D, Surveying Software, GIS, and Microsoft Office
- Survey Team Leadership and Multidisciplinary Site Coordination
- Supervised Road & Pavement Surveys, Runway/Taxiway/Apron Surveys, Alignment & Profile Verification, Cut & Fill Calculations, and survey data processing software, Equipment Calibration, Construction Tolerances & Survey QC, AutoCAD/Civil 3D, Surveying Software, GIS, Survey Reports & Documentation.

Education

- **Diploma in Civil Engineering**
QMA Jinnah College
- **Diploma in Land Surveying**
Pakistan Minerals Development Corporation Institute.
- **Certificate in AutoCAD, Civil 3D & Microsoft Office**
Cascade College of Professional Studies.