

COMPANY OVERVIEW

Zolacon is a utility and infrastructure support consulting firm specializing in project delivery coordination across energy, transportation infrastructure and design-build projects. We support engineering firms, utility owners, and infrastructure contractors by bridging the critical interfaces between planning, design, and construction.

Our expertise spans utility coordination, electrical infrastructure, project management, regulatory alignment, and digital infrastructure integration—helping teams connect field conditions, design documentation, and project stakeholders into one coordinated workflow. Utility coordination plays a vital role in preventing project delays by identifying conflicts early and aligning utilities, contractors, and agencies throughout the project lifecycle.

We help infrastructure teams reduce backlog, resolve utility conflicts, strengthen project documentation, and modernize utility data systems.

Zolacon LLC

5900 Balcones Drive STE 9320
Austin, TX 78731
D-U-N-S: 140978074
CAGE Code: 18B23

CORE COMPETENCIES

Transmission & Utility Engineering

- FERC 881 compliance modeling & ambient-adjusted line rating review
- PLS-CADD transmission modeling & clearance validation
- OPGW shield wire replacement design
- Transmission line rebuild & switch replacement packages
- Utility underground & distribution modernization
- ROW utility coordination & conflict resolution
- Electric utility infrastructure (overhead & underground)

Power Generation & Grid Systems

- CHP (Combined Heat & Power) plant electrical design
- Black Start generation systems
- Microgrid (Solar + Battery + Gas) conceptual & detailed design
- Fuel Cell & Peaking Unit electrical systems
- 220kV–400kV switchyard engineering (AIS & GIS)
- Coal, gas, combined cycle, and solar PV plant engineering
- Emergency power systems & generator replacement

System Studies & Technical Analysis

- Short Circuit Analysis
- Load Flow Studies
- Arc Flash Analysis
- Relay Coordination Studies
- Harmonic Analysis (ETAP, SKM, EasyPower)
- Underground/Under-river cable ampacity calculations
- Lightning protection & grounding design

Public Infrastructure & Transportation

- Rail corridor utility relocation & communication backbone design
- Station electrical distribution
- Streetscape & roadway lighting design
- Parks & plaza lighting design with photometric analysis
- DC traction yard systems
- Temporary power & restoration planning

Design-Build & Owner's Engineering Support

- QA/QC of engineering deliverables
- Vendor drawing review & technical evaluation
- Engineering estimates & material orders
- RFI response & construction support
- Regulatory compliance documentation
- As-built integration & digital record modernization

PAST PERFORMANCE

Representative experience of Zolacon's licensed engineers and project leaders across utility, generation, and infrastructure programs

AEP – Owner's Engineer & Transmission Package Review

- Reviewed high-voltage transmission design packages, PLS-CADD model updates, structure loading, and clearance validations; verified survey/LiDAR integration and ensured documentation met AEP engineering standards and regulatory compliance requirements

Xcel Energy – System-Wide Transmission Compliance (FERC 881)

- Supported multi-state ambient-adjusted rating compliance initiative including validation of 100+ transmission line models, structure geometry review, clearance documentation updates, and regulator-ready submission support

Generation Projects

- Delivered detailed electrical engineering for CHP plants, fuel cell installations, black start generation systems, and emergency power upgrades including switchgear, protection schematics, cable sizing, and commissioning support

Switchyards & Utility Infrastructure (Up to 400kV)

- Provided detailed engineering for AIS & GIS substations (220kV–400kV), MV/LV switchgear replacement, underground/overhead distribution upgrades, and utility modernization programs across public and private sector projects

Transportation & Public Infrastructure (Design-Build)

- Led utility coordination, communication backbone design, lighting and DC yard systems, and multi-phase submission packages (60%, 90%, IFC) for major rail expansions and municipal redevelopment projects

NAICS CODES

- 237130 – Utility Infrastructure Support
- 541330 – Engineering Services
- 541340 – Drafting Services
- 541370 – Surveying and Mapping (except Geophysical) Services
- 541618 – Project Coordination/Consulting
- 541519 – BIM/Digital Integration Support
- 541690 – Technical Compliance Consulting
- 541611 – Administrative & General Management Consulting

TXDOT PRECERTIFICATIONS

(In Process)

- 4.5.1 Constructibility Review
- 4.6.1 3-D Visualization and Animation Services
- 8.2.1 Illumination
- 8.3.1 Signalization
- 11.5.1 Construction Scheduling Project Manager
- 11.6.1 Construction Schedule Support – General
- 17.4.1 Electrical Engineering
- 18.2.1 Subsurface Utility Engineering (Utility Engineering Investigation)
- 18.3.1 Utility Adjustment Coordination
- 18.4.1 Utility Engineering
- 18.5.1 Utility Construction Management and Verification
- 18.6.1 Utility Management & Coordination Oversight
- 18.7.1 Utility Relocation Design
- 20.4.1 Electrical Engineering for Buildings, Facilities, and Infrastructure Supporting Marine Shore-Side Functions

CERTIFICATIONS & LICENSES

- PMP – Project Management Professional
- PE – Professional Engineers licenses in TX, NY, NJ, PA, CO, CA, FL
- WBE – Women's Business Enterprise (WBENC)
- MBE – Minority Business Enterprise
- WOSB – Woman-Owned Small Business

KEY CLIENTS

(Direct employment, project participation, or engineering support experience)

- American Electric Power (AEP) – Transmission Owner's Engineering
- Xcel Energy – Multi-State Transmission Engineering & Compliance
- Dominion Energy – Distribution Undergrounding & Transmission Support
- Federal Government (NAVFAC, NSA)
- PSE&G – Interconnection, Microgrid & DER Support
- Stantec / Power Engineers / Sargent & Lundy – Design-Build & Transmission Support

DIFFERENTIATORS

- Deep Utility & Engineering Experience: A decade of combined experience supporting major utilities and Tier-1 engineering firms.
- Digital Modernization Focus: Specializing in converting outdated utility records into modern, digital formats aligned with future grid needs.
- Woman-Owned & Minority-Owned Firm: Helps prime contractors meet WBE/MBE/DBE participation goals.
- Precision & Communication: Known for exceptional attention to detail, stakeholder coordination, and documentation clarity.
- Field-to-Office Integration: Ability to interpret survey data, reconcile discrepancies, and ensure design accuracy across all phases.
- Advanced Power System Studies: In-house expertise in short circuit, load flow, arc flash, relay coordination, harmonic analysis, and cable ampacity studies using ETAP, SKM, and EasyPower
- Generation Integration: Capability spanning high-voltage transmission modeling, switchyard engineering (up to 400kV), CHP systems, fuel cells, microgrids, and DER integration