



AARON STERNS, P.E., S.E.
PRINCIPAL

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EXPERIENCE

Aaron is a dedicated structural engineer who believes the best solutions are developed from having a better and more fundamental understanding of the problem. He recognizes that client priorities will vary and strives to understand and consider their perspectives to help ensure a successful project.

PRACTICE AREAS

- Construction Troubleshooting
- Structural Evaluation
- Repair and Rehabilitation Design
- Failure Investigation

REGISTRATIONS

- Professional Engineer: AR, CA, FL, NC, NJ, LA, TX
- Structural Engineer: AZ, NV, OR, WA
- Welding Inspector: American Welding Society

PROFESSIONAL ACTIVITIES

- American Society of Civil Engineers
- American Welding Society
- Post-Tensioning Institute

EDUCATION

The University of Texas
B.S. Civil Engineering, 2003

University of Washington
M.S. Civil Engineering (Structural), 2006

REPRESENTATIVE PROJECTS

Commercial Office Building – Investigation and repair consulting related to deflection and strengthening aspects of a reinforced concrete commercial structure during construction.

Bellmont Hall – Assessment of facade deterioration, repair design, and construction administration during expedited repair schedule.

Edinburg High School – Repair designs for various masonry construction deficiencies.

Water Containment Structure – Evaluated a post-tensioned water tank structure experiencing deflection issues to determine root causes of deflection and potential avenues for resolution.

Earthen Dam Stabilization – Provided litigation consulting services related to issues with the construction of a subterranean concrete structure, which was part of a dam seismic stabilization project.

Solar Energy Projects – Performed multiple structural peer reviews of solar systems before construction and damage to existing systems.

Wind Energy System – Provided litigation consulting services related to the structure failure of a wind turbine system.

Cell Tower Collapse and Damage – Investigated multiple cell tower systems, including one that collapsed following a wind event and several experiencing underground anchor cable corrosion.

Hylebos Bridge – Assessment, analysis, modeling, and repair design of double leaf bascule bridge for load rating following fire damage.

Radisson Ballroom – Design of structural systems and modifications for long-span ballroom renovation.

Tower 333 Crane – Investigation, analysis, and modeling of tower crane collapse.

American Institute Building – Design review, consulting, and load testing of facade access equipment during new construction.