



JORGE HERNANDEZ, P.E.
PROJECT ENGINEER

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REGISTRATIONS

- Professional Engineer: TX
- Civil Engineer: Costa Rica

HONORS & AWARDS

- J. Neils Thompson Graduate Fellowship in Structural Engineering, 2018 – 2019
- Cemex Building Awards, Infrastructure Category Finalist, 2016

PROFESSIONAL ACTIVITIES

- American Concrete Institute
ACI 563-K External Reinforcement
ACI 369 Seismic Repair
ACI 342 Evaluation of Concrete Bridges
- American Institute of Steel Construction

EDUCATION

University of Costa Rica
B.S. Civil Engineering, 2012

University of Texas at Austin
M.S.E., 2020

EXPERIENCE

Jorge embraces the challenges and investigative work that accompany forensic engineering. His previous experience includes design, evaluation, rehabilitation, and seismic vulnerability assessments of new and existing structures. He has investigated structural failures, assessed deteriorating materials, developed repair and strengthening measures, and provided litigation support.

REPRESENTATIVE PROJECTS

Post-Tensioned Bridge - Investigated and evaluated the as-built condition of a partially constructed 28-span segmental post-tensioned bridge. Developed repairs and remediation measures. Provided litigation support.

Parking Garage - Investigated the probable cause of distress on an inverted T-Girder of a parking garage. Successfully developed and implemented a repair plan based on findings.

Hotel Building Deflections - Evaluated a new construction building that was suffering from deflections qualified as excessive. Summarized findings in an expert report to be used for litigation and provided support throughout the litigation process.

Stadium Assessment - Investigated and evaluated a football stadium that showed distress and determined the probable cause. Provided recommendations for repair and monitoring.

Highrise Formwork Accident - Determined the probable cause of an incident where a plywood formwork deck system dislodged from the shoring supporting it. Provided litigation support based on findings.

Pump Station - Investigated the probable cause of cracks on precast concrete wall panels for a new water plant. Summarized findings in an expert report to be used for litigation and provided support throughout the litigation process.

Drydock Pile Design - Analyzed, designed, and detailed the steel piles for a new drydock. Optimized the design of the piles to ensure the project remained within budget. Coordinated drafting of drawing.

Resort Load Test - Designed and implemented load tests of post-tensioned concrete slabs at an 8-story hotel building during construction. Monitored slab response to applied loads.