

Carlos Garza, M.S., P.E.

Job Responsibilities

Project Manager/General
Manager

Education

Master of Science in
Engineering, University of Texas
at Austin, 2006

Bachelor of Science in Civil
Engineering, University of Texas
at Austin, 2003

Registrations

Texas, Professional Engineer
License No. 104971

Florida, Professional Engineer
License No. 76230

Puerto Rico, Professional
Engineer, License No. 25066

Selected Professional Affiliations

- American Concrete Institute, Central Texas Chapter, President 2019, Board Member 2025
- American Concrete Institute, Member
- International Concrete Repair Institute, Member
- American Society of Civil Engineers, Member
- Structural Engineers Association of Texas, Member

Selected Professional Experience

Carrasquillo Associates, Ltd. 2006-Present

Project manager for projects concerning construction and design defects, materials issues, and structural collapses. Analyzing structures, pavements, and material behavior using computer and finite element methods.

Selected Committee Memberships

- Associate Member in ACI Committee 302, Construction of Concrete Floors
- Associate Member in ACI Committee 330, Concrete Parking Lots and Site Paving
- Associate Member in ACI Committee 360, Design of Slabs on Ground

Selected Project Experience

- Evaluation of Distress, Certification of Structural Integrity/Peer Review for Steel Framing, for Coliseum in San Juan, Puerto Rico
- Evaluation of water retaining structures distressed by alkali-silica reaction
- Investigation of Distress and Design of Repairs at El Dorado Airport, Bogota, Colombia
- Investigation of Distress in Fiber Reinforced Concrete Slabs-on-Grade, Bloomington, California
- Structural Damage Evaluation of Pan American Fabrics Building, Eagle Pass, Texas
- Tilt-Up Panel Failure at 24 Hour Fitness Building, Austin, Texas
- Evaluation of Pre-Cast Manufactured Stone Veneer
- Investigation of Distress Observed in Sun City Concrete Driveways, Georgetown, Texas
- Randall's Warehouse Concrete Slab and Pavement Investigation, Houston, Texas
- Evaluation of Distress in Double-Tee Concrete Beams of Parking Garage in San Marcos, Texas

CARRASQUILLO ASSOCIATES

MATERIALS, CONSTRUCTION, AND
STRUCTURAL CONSULTANTS

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- Power Plant Scrubber Foundation Investigation and Structural Analysis in La Grange, TX.
- Seismic Analysis and Design Evaluation of Power Plant Chimney in Osceola, AR
- Investigation and Structural Assessment of over 70 Structures Exposed to Ground Vibrations
- Evaluation of Distress in Cast in Place Concrete Parking Garage in Baton Rouge, LA
- Evaluation and Analysis of Flexible Pavement Driveway in Houston, TX
- Investigation of Distress Observed in Precast Concrete Parking Garage in Austin, TX
- Evaluation of a Correctional Complex Exhibiting Distress due to Material Deficiencies, Kentucky
- Evaluation and Structural Analysis of a Coke Pad Wall Failure, Port Arthur, TX
- Elevated Concrete Slab and Flooring System Investigation at NorthPark Center Mall, Dallas, Texas
- Structural analysis and evaluation of 10 story building in Coral Gables, Florida
- Design of mass concrete placement and thermal control plan for foundation elements for a hospital in San Antonio, TX
- Coordinated the non-destructive testing to determine the structural adequacy of a underwater tunnel in Cartagena, Colombia
- Investigation of dozens of reinforced concrete water retaining structures exhibiting distress due to durability issues
- Assessment of precast concrete panels of a water treatment plant in North Texas

Publications and Presentations

(with Dan L. Wheat, Ph.D. and Loukas F. Kallivokas, Ph.D.),
Feasibility of Using the Piezoelectric Properties of Wood for Structural Health Monitoring, Structures Congress 2006, Structural Engineering and Public Safety

(with Dr. Ramon L. Carrasquillo Ph.D., P.E.), Quality Control and Construction Issues of Double-Tee Flange Connections, ASCE Texas Section Spring 2010 Meeting, Austin, TX

Vibration Monitoring of Commercial and Residential Structures due to Seismic Exploration Activities, City Council of Beaumont, TX

Vibration Monitoring of Residential Structures due to Seismic Exploration Activities, City Council of Manvel, TX

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Case Studies Regarding Structural Failures and Non-Destructive
Testing, ACI Central Texas Chapter, 2015

(with David P. Langefeld, PE) Industry Standards of Ground Vibration
PPV Limits and Associated Distress, ASCE, 2018

Testimony List

Deposition; MRIL Management, L.L.L.P. and Master Rig International,
L.L.L.P. vs. Keeton Contract Services, Inc. Case no. 02-14-0000-2715,
June 26, 2016

Mediation; Savariego, et. al. vs. McDonald's Real Estate Company and
Everlast Construction, LLC, Cause No. 2016-DCL-02869, January 25,
2018

Deposition; Abasto Properties, LLC vs. Cantera Design Builders, LLC
and R W Jones & Sons, Inc, September 25, 2020

Deposition; Commerce Construction Co. LP, v. A-Rod Construction,
Inc., February 15, 2023

Deposition; Espuela Business Park, LLC v. Drash Contracting Co., LLC,
Cause No. 2022CI10534, November 16, 2023

Deposition; Liberty County, Texas v. Arkema Inc., Cause No. 2020-
61765-MDL, December 22, 2023 (Corporate Representative on behalf of
Liberty County)

Deposition; Liberty County, Texas v. Arkema Inc., Cause No. 2020-
61765-MDL, October 24, 2024 (Expert Witness)

Deposition; Sport Store, LLC v. Olshan Foundation Repair Company of
Houston, LLC, D/B/A Olshan Foundation Solutions, et. al, November 25,
2024