

## Alfredo E. Bustamante

Senior Associate



### EDUCATION

Tidewater Community College

Associate of Science, Engineering, 1997

Old Dominion University

Bachelor of Science, Civil Engineering, 1999

University of Illinois, Urbana-Champaign

Master of Science, General Engineering, 2001

### REGISTRATION

Professional Engineer in Texas

Construction Documents Technologist

### PRACTICE AREAS

Parking Structures

Repair and Rehabilitation Design

Steel Structures

Stone Cladding

Structural Analysis / Computer Modeling

Structural Investigation

Water Penetration Testing

### EXPERIENCE

Since joining WJE in 2002, Mr. Bustamante has performed evaluation, repair design, and construction administration and observations for a variety of structural, architectural, and material distress related projects. His experience with WJE includes non-destructive testing of concrete structures; computer modeling and analysis of steel and masonry structures; design of repairs for steel structures and exterior wall cladding systems; and investigation of parking structures. Representative structural types include conventional and post-tensioned reinforced concrete, steel frames, and masonry. His experience related to exterior wall evaluation and repair design includes different stone cladding materials, curtain wall, brick, and concrete.

Prior to joining WJE, Mr. Bustamante worked at the University of Illinois as a research assistant, and the former Union Camp Corporation where he managed phases of capital and repair projects for International Paper's Franklin, Virginia paper mill.

### REPRESENTATIVE PROJECTS

#### ***Parking Structures***

- Steel-Framed Garage: Structural evaluation and design modification, Houston, Texas
- Marathon Oil Tower Parking Garage: Condition survey, structural evaluation, repair design, and construction observations, Houston, Texas

#### ***Repair and Rehabilitation Design***

- 1 and 2 Greenway Plaza: Exterior wall and perimeter architectural concrete columns evaluation, repair design, and construction observations, Houston, Texas
- 2, 5 and 6 Greenspoint Plaza: Curtain wall, precast concrete panels evaluation, repair design, and construction observations, Houston, Texas

#### ***Stone Cladding***

- Jones Hall: Exterior travertine wall cladding repair design, Houston, Texas
- Texas A&M University Alumni Center: Exterior wall travertine cladding repairs, College Station, Texas
- Marathon Oil Tower: Granite cladding evaluation, repair design, and construction observations, Houston, Texas

#### ***Structural Analysis / Computer Modeling***

- Jones Hall: Structural analysis of attic perimeter deep truss framing, Houston, Texas
- Steel-Framed Garage: Structural analysis and design modifications, Houston, Texas
- Texas A&M University Alumni Center: Structural analysis, and design repairs for lateral load resisting system of building, College Station, Texas

#### ***Structural Investigation***

- Precast Concrete Building: Structural investigation, Houston, Texas
- Steel-Framed Garage: Structural investigation and condition survey, Houston, Texas

#### ***Water Penetration Testing***

- University of Texas Health Science Center: Window water testing, Houston, Texas
- University of Houston - Clearlake: Water leak evaluation and water testing, Houston, Texas

### PROFESSIONAL AFFILIATIONS

American Concrete Institute (ACI)

Foundation Performance Association (FPA)

University of Idaho Human Factors and Ergonomics

Society Student Chapter (Associate)

### TECHNICAL COMMITTEES

Houston FPA Structural Committee

Foundation Evaluation Methods Sub-Committee (Co-Chair)