

### Justin M. Spivey | Senior Associate



#### EDUCATION

- The Cooper Union for the Advancement of Science and Art
  - Bachelor of Engineering, Civil Engineering, 1996
- University of California, Berkeley
  - Master of Science, Structural Engineering, 1997

#### PRACTICE AREAS

- Structural Evaluation
- Repair and Rehabilitation Design
- Historic Preservation
- Failure Investigation
- Earthquake Engineering
- Disaster Response
- Construction Administration
- Wood Structures

#### REGISTRATIONS

- Professional Engineer in CA, CT, DE, KY, MA, MD, NJ, NY, PA, and VA

#### PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Society of Civil Engineers
- Association for Preservation Technology International
- Delaware Valley Association of Structural Engineers

#### CONTACT

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#### EXPERIENCE

Justin M. Spivey specializes in the condition assessment, renovation, repair, and adaptive reuse of existing structures. He has worked with many National Register and National Historic Landmark properties as well as buildings damaged by natural and man-made disasters. Mr. Spivey is familiar with a wide range of materials, from nineteenth-century cast and wrought iron, wood, and masonry through new construction designed for earthquake loading.

After attending the University of California on a Berkeley Graduate Fellowship, Mr. Spivey documented historic bridges for the Historic American Engineering Record. He has also worked as a consulting engineer and in overseas construction management. Mr. Spivey's project experience covers every phase from conceptual design to contract documents to commissioning.

Mr. Spivey has also taught courses in preservation engineering at Johns Hopkins University in Baltimore, Maryland, and in historic preservation at the University of Pennsylvania.

#### REPRESENTATIVE PROJECTS

##### Structural Evaluation

- Major Retail Store Chain - Various Locations Nationwide: Evaluation of welded connections in open-web steel joists
- Manufacturing Facility - Westwood, NJ: Analysis of snow drift loading capacity at roof offset
- New York State Capitol - Albany: Survey of as-built floor and roof structure; rating of live load capacity\*

##### Repair and Rehabilitation Design

- Enfield School - Oreland, PA: Reconstruction of brick masonry parapets
- Erdenheim School - Flourtown, PA: Repairs to address water infiltration through below-grade walls

##### Historic Preservation

- Mount Moriah Cemetery Gatehouse - Philadelphia, PA: Design of temporary structural stabilization

- North Brother Island - Bronx, NY: Structural engineering consultation for conservation and access study
- Warwick Hotel at Rittenhouse Square - Philadelphia, PA: Inspection and restoration of National Register-listed brick and terra cotta facade

##### Failure Investigation

- Multiple Properties - Bayonne, NJ, and New York, NY: Investigation of damage associated with adjacent construction
- Pinnacle Health Hospital - Harrisburg, PA: Investigation of excessive deflection in concrete floor slab

##### Earthquake Engineering

- University of California, Berkeley, Hearst Greek Theater: Investigation and testing of 1903 concrete structure for seismic retrofit\*
- Pinnacles National Monument - CA: Structural and seismic risk assessment of park buildings for National Park Service\*

##### Disaster Response

- Various Locations - DE, NJ, NY, and PA: Damage assessments following Hurricane Irene, Virginia earthquake, and post-tropical storm Sandy

##### Construction Administration

- New U.S. Embassy Compound - Rangoon, Burma: Construction quality control and commissioning\*

##### Wood Structures

- Cathedral Church of the Nativity - Bethlehem, PA: Repair of roof framing damaged by wind
- Friends Academy - Locust Valley, NY: Repair of distressed timber roof trusses
- Hanging Flume - Uravan, CO: Industrial rope access-based condition assessment of 1880s mining structure suspended from a cliff\*
- *River Rooms* by Stacy Levy - Philadelphia, PA: Structural engineering for outdoor wood sculpture installation

\*Indicates with previous firms