

### Benjamin R. Barben | Associate II



#### EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, Structures Option, 2010
  - Master of Architectural Engineering, Structures Option, 2010
  - Minor of Architecture Studies, 2010

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Failure/Damage Investigations
- Historic Preservation
- Instrumentation/Monitoring/Load Testing
- Repair and Rehabilitation
- Wood Structures

#### PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction

#### CONTACT

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#### EXPERIENCE

Benjamin Barben joined WJE in 2016 with a primary focus in structural assessment and evaluation, as well as structural vibration investigation services. He has performed structural investigations, structural repairs and rehabilitation services, structural vibration services, and construction observation services for concrete repairs.

Prior to joining WJE, Mr. Barben worked at Gannett Fleming in Camp Hill, Pennsylvania, where he was a structural designer concentrating in the design of steel structures and steel connections. As a graduate research assistant at the Pennsylvania State University, he focused on vibration serviceability of structures that house advanced nanotechnology instrument.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- St. Joseph's Healthcare, Critical Care Building - Paterson, NJ: Third-party review of shear and moment connections; design of braced frame steel connections \*
- Grand Station - Chicago, IL: Third-party review of shear and moment connections \*
- General Motors Plant Expansion - Baltimore, MD: Design of shear, moment, and braced frame steel connections \*
- University of Scranton Residence Hall - PA: Third-party review of shear and moment connections; design of braced frame steel connections \*
- Tunnel Inspections - Washington, D.C.: Condition assessment and evaluation of delamination \*
- Penn State Hershey Children's Hospital - PA: Submittal review and construction period services for structural steel superstructure \*

##### Failure/Damage Investigation

- Washington Redskins Training Facility - Ashburn, VA: Investigation of inflatable training facility collapse

##### Historic Preservation

- Virginia General Assembly Building - Richmond: Condition assessment of limestone facade

#### Instrumentation/Monitoring/Load Testing

- Council Rock Middle School - Holland, PA: Experimental testing and data collection of a library floor susceptible to vibrations \*
- Hammond Building - University Park, PA: Experimental testing and data collection of a second-floor laboratory space \*

#### Repair and Rehabilitation

- Milford Mill Academy - Baltimore, MD: Evaluation of existing structural conditions and design of brick masonry walls and structural steel beams for renovations \*
- Pennsylvania Department of Transportation Building - Harrisburg, PA: Assessment and evaluation of various deficient structural components; design of retrofitted steel connections and steel members for renovations \*
- SEPTA City Hall Station - Philadelphia, PA: Design of retrofitted connections, evaluation of existing structural conditions, and design of structural elements for renovations \*
- Vantage at Merrifield - Falls Church, VA: Submittal review and construction observations and documentation
- Shockoe Bottom Crest Gates - Richmond, VA: Evaluation of existing structural conditions and design of retrofits
- Shockoe Bottom Emergency Gate - Richmond, VA: Evaluation of existing structural conditions and design of retrofits

#### Wood Structures

- Hampstead Water System Services - MD: Structural condition assessment and evaluation of wood mezzanine in a storage building \*

\* Indicates with previous firm