



## PERSONNEL QUALIFICATIONS

### Thomas J. McMullan III | Associate Principal



#### EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, Structures Option, 2002

#### PRACTICE AREAS

- Peer Review
- Building Enclosure Commissioning
- Facade Assessment
- Failure Analysis
- Repair and Rehabilitation
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in DE, PA, and VA

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Architectural Engineering Institute of ASCE
- ASTM International
- Building Enclosure Council - Philadelphia
- RCI, Inc. - Mid-Atlantic chapter, past president

#### CONTACT

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#### EXPERIENCE

Since joining WJE full-time in 2002, Thomas McMullan has specialized in the design and investigation of numerous different types of exterior building enclosure systems on hundreds of projects throughout the country. These systems include air barriers; masonry cavity wall and mass wall construction; rain screen cladding; precast and cast-in-place concrete; EIFS; windows, curtain walls; and skylights; and roofing and waterproofing. In addition to performing condition assessments, field performance testing, and repair design for a wide variety of building types and structures, Mr. McMullan works extensively to promote and develop WJE's new construction peer review and building enclosure commissioning (BECx) practice, with an emphasis on building science.

#### REPRESENTATIVE PROJECTS

##### Peer Review

- Perelman Center for Advanced Medicine (PCAM) South Tower and Pavilion - Philadelphia, PA: Design peer review and assistance during expansion of the Hospital of the University of Pennsylvania
- Inova Fairfax Hospital - Fairfax, VA: Design peer review and assistance for the renovation and new construction of several existing and new campus buildings
- PSU HUB-Robeson Center Addition and Renovation - University Park, PA: Design review and assistance during expansion of the center for student activity
- Fort Bliss Replacement Hospital - El Paso, TX: Design peer review and assistance for new replacement hospital under contract with the U.S. Army Corps of Engineers

##### Building Enclosure Commissioning

- Celgene Headquarters - Summit, NJ: BECx for a 550,000-gross-square-foot expansion to global biopharmaceutical company's headquarters
- Washington Headquarters Service (BRAC 133) - Alexandria, VA: BECx for 1.75-million-gross-square-foot office building and auxiliary structures for the Department of Defense

- Constitution Center - Washington, D.C.: BECx for the largest privately-owned office building in the District of Columbia during replacement of the existing facade with a unitized, structurally glazed curtain wall

##### Facade Assessment

- The Ritz-Carlton Philadelphia - Philadelphia, PA: Condition assessment of historic white Georgia marble facade and copper roofing
- The Residences at Two Liberty - Philadelphia, PA: Condition assessment of a 1990-vintage unitized glass curtain wall and sloped glazing assembly with granite panel accents
- Homer Building - Washington, D.C.: Evaluation of facade condition and stabilization of historic terra cotta using difficult access techniques for inspection

##### Failure Analysis

- York Hospital Patient Care Tower - York, PA: Exterior wall water leakage and roofing failure investigation and remediation
- Baltimore County Public Safety Headquarters - Towson, MD: Sporadic glass breakage investigation and analysis
- Schwab Auditorium - University Park, PA: Historic plaster failure investigation and remediation

##### Repair and Rehabilitation

- The Ellington Condominium - Philadelphia, PA: Stabilization and restoration of historic terra cotta cornice and limestone and masonry facades
- Washington Harbour - Washington, D.C.: Repair design of masonry and natural stone wall assemblies and building fenestration to address widespread water leakage and deterioration
- Bellmoor Inn and Spa - Rehoboth Beach, DE: Remediation of building enclosure including EIFS and masonry cavity wall construction