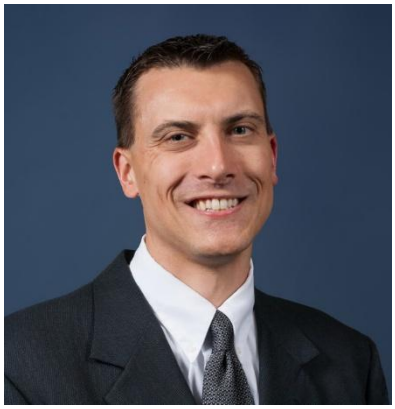
PERSONNEL QUALIFICATIONS

Phillip T. Elgin | Associate Principal and Associate Unit Manager



EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering (Structural), 2001

PRACTICE AREAS

- Facade Assessment
- Litigation Consulting
- Plazas and Terraces
- Parking Structures
- Facade Access
- Repair and Rehabilitation
- Structural Analysis
- Wood Structure Assessment

REGISTRATIONS

Professional Engineer in OH and PA

PROFESSIONAL AFFILIATIONS

- International Concrete Repair Institute (ICRI) - Pittsburgh Chapter, secretary
- Structural Engineers Association of Ohio (SEAoO)

CONTACT

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www.wje.com

EXPERIENCE

Phillip Elgin specializes in solving a wide range of architectural and structural issues related to materials, design, and construction. His investigations have included terra cotta, stone, brick, glass-fiber reinforced, precast, and post-tensioned concrete, structural steel, wood, fiberglass, coatings, traffic-bearing membranes, waterproofing, and sealants. Mr. Elgin's experience includes facade assessment and repair, building enclosure commissioning, parking garage evaluation and repair, structural design, failure analysis, leak investigation and repair, waterproofing design and repair, and structural and materials testing.

Mr. Elgin supports building owners, design professionals, and contractors through all aspects and phases of an investigation, design, or construction project by utilizing his broad and diverse project experience.

REPRESENTATIVE PROJECTS

Facade Assessment

- University of Pittsburgh and University of Pittsburgh Medical Center - PA: Facade ordinance inspection of more than 120 buildings and coordination contractor efforts to address unsafe conditions
- Stephen Foster Memorial - Pittsburgh, PA: Water infiltration investigation for a steel-framed memorial with brick infill walls faced with Indiana limestone
- Trimont Condominiums - Pittsburgh, PA: Evaluation and consultation regarding facade involving an exposed cast-in-place reinforced concrete structural framing system

Litigation Consulting

- Frick Building - Pittsburgh, PA: Evaluation of claims related to stone cornice facade failure
- California University of Pennsylvania, Convocation Center: Evaluation of claims associated with erection of long-span steel joists
- Private Residence - Sewickley, PA: Evaluation of claims related to water infiltration though windows installed in stucco-clad walls

Plazas and Terraces

- David L. Lawrence Convention Center - Pittsburgh, PA: Building enclosure commissioning of roof replacements
- Tribute to Children Monument - Pittsburgh, PA: Repair project involving waterproofing remediation and cast-in-place topping slab replacement
- Pasquerilla Spiritual Center, Eisenhower Chapel Frizzell Room - University Park, PA: Water infiltration investigation involving existing sheet membrane waterproofing installed over cast-in-place concrete

Parking Structures

- California University of Pennsylvania Parking Garage: Evaluation of precast double-tee flange collapse
- North Shore Garage - Pittsburgh, PA: Construction phase services for garage repair project involving concrete, sealant, and traffic-bearing membrane repairs

Facade Access

- Shadyside Medical Building, Pittsburgh, PA - Load testing of facade access anchorages
- 11 and 20 Stanwix Street, Pittsburgh, PA - Evaluation and testing of facade access rails and anchorages

Repair and Rehabilitation

- PNC Park - Pittsburgh, PA: Construction phase services for waterproofing repairs including sealant, surface sealer, and expansion joint repairs

Structural Analysis

- David L. Lawrence Convention Center - Pittsburgh, PA: Structural condition assessment and replacement of composite slabs
- 915 Brinton Road - Pittsburgh, PA: Structural evaluation of precast plank flooring (Celdex) system for increased loads due to change in occupancy

Wood Structure Assessment

- First United National Bank - Fryburg, PA: Structural assessment and repair of metal plate-connected wood trusses for additional load from overbuild framing