



PERSONNEL QUALIFICATIONS

Phillip T. Elgin | Senior Associate



EDUCATION

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

PRACTICE AREAS

- Facade Assessment
- Parking Structures
- Plazas and Terraces
- Repair and Rehabilitation
- Stadiums and Arenas
- Structural Analysis
- Structural Design
- Wood Structure Assessment

REGISTRATIONS

- Professional Engineer in PA and OH

PROFESSIONAL AFFILIATIONS

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

CONTACT

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EXPERIENCE

Phillip Elgin joined WJE in 2015 to expand WJE's presence in Pittsburgh, Pennsylvania. His experience includes new structural design and renovation for projects for K-12 schools, universities, hospitals, banks, and commercial properties. Projects have been comprised of facade assessment and repair, parking garage evaluation and repair, structural design and various assessments, surveys, and evaluations. He has completed numerous repair projects involving repair of deteriorated concrete, rebuilding of masonry wall construction, and installation of sealants and coatings. Mr. Elgin is familiar with various materials, including masonry (terra cotta, stone, brick, concrete masonry units), concrete (reinforced, precast, post-tensioned), structural steel, wood, fiberglass, glass-fiber-reinforced concrete, traffic-bearing membranes, waterproofing, and sealants.

REPRESENTATIVE PROJECTS

Facade Assessment

- Rodef Shalom Congregation - Pittsburgh, PA: Evaluation of existing terra cotta cladding (roof and wall) and development of construction documents to implement repairs *
- Duquesne University Brottier Hall - Pittsburgh, PA: Binocular and swing-stage evaluation of brick-clad dormitory tower to investigate mortar distress; assessment report and recommendations *

Parking Structures

- UPMC Shadyside Place Parking Garage Repairs - Pittsburgh, PA: Evaluation report, construction documents, and construction phase services of steel-framed and post-tensioned parking garage; repairs included painting exposed steel, repairing concrete deterioration, and placing new traffic-bearing membrane *
- AHN West Penn Hospital Parking Garage Repairs - Pittsburgh, PA: Development of construction documents for repair of steel- and concrete-framed garage; construction phase services during repairs *
- North Shore Garage - Pittsburgh, PA: Construction phase services for garage repair project involving concrete, sealant, and traffic-bearing membrane repairs

Plazas and Terraces

- University of Pittsburgh Schenley Plaza - Pittsburgh, PA: Assessment of concrete slab and steel-framed plaza as part of an overall plaza enhancement project; coordination with design team regarding repair approach and cost analysis *
- Duquesne University Brottier Hall Turn-Around Repairs - Pittsburgh, PA: Evaluation of hollow-core plank and steel-framed turnaround area and development of construction documents for repair; construction phase services *

Repair and Rehabilitation

- PNC Park Waterproofing Repairs - Pittsburgh, PA: Construction phase services for waterproofing repairs to stadium seating areas and concourses including sealant, surface sealer, and expansion joint repairs

Stadiums and Arenas

- PNC Park - Pittsburgh, PA: On-site review of existing concrete walking surfaces to identify distress and trip hazards
- Sharon High School Stadium - Sharon, PA: Evaluation of concrete seating areas to develop repair documents; repairs included concrete restoration, expansion joint replacement, and sealer installation *

Structural Analysis

- St. Peter Church Cupola Restoration - Pittsburgh, PA: Evaluation of existing masonry tower construction for new steel support structure to reconstruct previously demolished cupola *
- Allegheny County Fourth Avenue Garage - Pittsburgh, PA: Coordination of evaluation, testing, and assessment of eight-story concrete-framed parking garage *

* Indicates with other firm