

Andrew B. Conwell | Associate III



EDUCATION

- University of Illinois at Urbana-Champaign
 - Bachelor of Science, Civil Engineering, 2021
 - Master of Science, Structural Engineering, 2022

PRACTICE AREAS

- Structural Analysis
- Repair and Rehabilitation
- Structural Metals
- Concrete Structures
- Facade Access

REGISTRATIONS

- FAA Licensed Remote Pilot

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- Structural Engineers Association of Illinois

CONTACT

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EXPERIENCE

Andrew Conwell specializes in the investigation, analysis, and repair of existing structures. Mr. Conwell's experience spans a wide range of construction types, including office and residential high-rise buildings, historic structures, parking garages, and civil infrastructure. He has also designed, inspected, and load tested interior and exterior facade access systems for complex building geometries.

Mr. Conwell's work includes structural evaluation, condition assessments, repair and strengthening design, development of calculations and construction documents, and construction phase support. He has a particular interest in the conservation and rehabilitation of existing structures in Chicago.

REPRESENTATIVE PROJECTS

Structural Analysis

- Prudential Plaza - Chicago, IL: Analysis of existing mid-century steel structure for increased loading from renovations, including live loads for new amenity spaces, loads imposed by new monumental stairs, and design of steel framing for enclosed walkway between buildings
- Willis Tower - Chicago, IL: Analysis of existing composite steel roof framing for loads from proposed antenna modifications
- 25 East Washington - Chicago, IL: Investigation and evaluation of historical steel and clay tile arch floor system for proposed live loads for new amenity space
- High-Rise Office Building - Chicago, IL: Instrumentation, dynamic modeling, and mitigation design for office space with occupant-induced floor vibration performance issues

Repair and Rehabilitation

- Old Post Office - Chicago, IL: Inspection, repair design, and construction period services for concrete structures at plaza and track level
- Former Railroad Depot - Chicago, IL: Construction progress inspection and structural remediation recommendations for conversion of historical masonry railroad depot into restaurant and brewery space

Structural Metals

- High-Rise Office Building - Chicago, IL: Condition assessment and design of repairs for 1920s steel fire escape
- Residential and Commercial Buildings - Chicago, IL: Inspection mandated by City of Chicago to inspect exposed metal structures; development of repair recommendations

Concrete Structures

- Corporate Headquarters - Oak Brook, IL: Design of slab opening infill and analysis of existing post-tensioned concrete structure to support increased live loads
- Water Purification Plant - Chicago, IL: Inspection of and repair recommendations for roadway and water purification facilities supported on reinforced concrete structure
- Parking Garages - Chicago, IL: Condition assessment, repair design, and construction period services for concrete repairs and traffic membrane application in various reinforced concrete, post-tensioned concrete, and prestressed concrete garages

Facade Access

- 203 North LaSalle Street - Chicago, IL: Design, load testing, and certification of facade access equipment for interior use at sixteen-story atrium
- Triton College - River Grove, IL: Analysis of open web steel roof joists and anchorages for loads from aerial circus performances
- High-Rise Buildings - Chicago, IL: Inspection, load testing, and certification of dedicated facade access equipment; inspection and repair design for building maintenance unit tracks and structural supports