

Andrew B. Conwell | Associate II



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

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 concrete and steel structures. He has worked on various structures, including office and residential high-rise buildings, parking structures, and civil infrastructure. He has also designed, inspected, and load tested various configurations of interior and exterior facade access systems on high-rise buildings. Mr. Conwell's projects have included evaluating and investigating existing buildings, designing repairs and strengthening, developing construction documents, and performing construction observations.

Prior to joining WJE, Mr. Conwell's previous experience was in the energy and transportation sectors. His previous work involved the design and development of construction documents for various projects.

REPRESENTATIVE PROJECTS

Structural Analysis

- Prudential Plaza - Chicago, IL: Analysis of existing steel structure for increased loading from tenant build-out, including live loads for new amenity spaces, loads imposed by new monumental stair, and new mechanical equipment loads
- Discover Chatham Call Center - Chicago, IL: Design of steel framing and structural modifications for new courtyards and joist reinforcement for mechanical equipment upgrades as part of a conversion from retail to call center
- 25 East Washington - Chicago, IL: Investigation and evaluation of historical steel and clay tile arch floor system for proposed live loads for a new amenity space

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 masonry railroad building into restaurant

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
- Multiple 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
- Multiple High-Rise Buildings - Chicago, IL: Inspection, load-testing, and certification of dedicated facade access equipment