

KEVIN JACKSON, S.E., P.E.

Principal



Summary

Kevin Jackson joined Thornton Tomasetti in 2005. As a Principal, he leads a renewal team focusing on structural investigations, condition assessments, renovation projects, and property loss consulting. He is familiar with various modern and archaic building types, construction materials and their behavior. Kevin's experience ranges from new construction projects to renovations, investigations of existing structures and failure analysis.

Areas of Technical Expertise

- Evaluation of Existing Structures
- Repair of Existing Structures
- Structural Engineering

Education

- M.S.E, Structural Engineering and Materials, 2001, University of Michigan
- B.S.E, Civil and Environmental Engineering, 2000, University of Michigan

Registrations

- Licensed Professional Engineer in AL, AR, MI, OH
- Licensed Structural Engineer in IL

Professional Activities

- Member, Structural Engineers Association of Illinois (SEAOI), 2015-Current
- Member, American Institute of Steel Construction (AISC), 2010-Current

Select Project Experience

Renovations, Restorations and Repairs

400 College Riverview Terrace, Construction Administration Services, Albion MI. Design of structural repairs for a 12-story residential building. The scope included the design of new anchorages between the structural floor framing and the facade.

Hartsfield-Jackson Atlanta International Airport, North and South Garages, Atlanta, GA. Evaluation and repairs of two parking structures at Hartsfield-Jackson International Airport.

Saint Clement Parish Dome Renovation, Chicago, IL. Investigation and restoration project for a historic dome structure clad in copper.

Loyola University Chicago, Quinlan School of Business, Chicago, IL. Structural investigation and design services for the stabilization of a party wall between a building to be torn down for a new university classroom building and a private residence.

Kiener East Garage, Investigation and Repairs, St. Louis, MO. Investigation and repairs of a multilevel parking structure with deteriorated pre-cast panel connections. Repairs were developed to reattach the precast panels in situ.

Confidential Investigation, MI. Immediate shoring of a newly designed and constructed higher education facility with a comprehensive analysis of the building and remediation design.

770 N. Water Street, Parking Garage Repairs, Milwaukee, IL. Project included repair of precast cladding connections to the base structure and general concrete repair.

Wrigley Field, The 1060 Project, Chicago, IL. Structural engineering for renovations to a historic Major League Baseball park originally constructed in 1914. The project included strengthening of the grandstand foundations, columns and roof trusses to accommodate increased loading. Designs and details were provided for repairs to corroded steel framing and deteriorated concrete elements.

*Denotes work performed with previous employer.

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Building Investigations, Evaluations, and Condition Assessments

Auburn University Rural Studio, Red Barn Investigation and Programming, Newbern, AL. Structural investigation and assessment of the existing two-story wood structure to determine the feasibility of repair.

10 & 120 S. Riverside Plaza Plenum Evaluation, Chicago, IL. Evaluation of an existing precast concrete plenum suspended over Metra and Amtrak tracks. The project included development of repairs.

Failure Investigations

Aquascape Design Partial Building Collapse, St. Charles, IL. Litigation support services for the collapse of a 700-foot-by-50-foot sloped green roof.

Indiana State Fair Commission Collapse Incident Investigation and Report, Indianapolis, IN. Structural engineering services related to an independent cause and origin opinion regarding the failure of a ground-supported temporary entertainment rigging structure on the evening of August 13, 2011.

Entertainment Rigging Structure Collapse, Toronto, CAD. Structural engineering related to a cause and origin opinion regarding the failure of a ground-supported temporary entertainment rigging structure in 2012.

Metrodome, Roof Collapse, Minneapolis, MN. Investigation and damage assessment of an air-supported dome roof that collapsed under snow loads.

Silverdome, Roof Investigation, Pontiac, MI. Investigation and damage assessment of an air-supported dome. Project included preparation of an expert report.

Milwaukee Center Parking Garage, Transfer Girder Failures, Milwaukee, WI. Investigation of the cause of reinforcement bar fractures in multiple transfer girders located within an existing multilevel, below-grade parking garage. The project scope included an emergency shoring program and repairs.

1720 Oak Avenue, Garage Collapse, Evanston, IL. Failure analysis of a four-story partial collapse of a garage structure that is part of a mixed-use complex. Scope of work included determining cause of failure, construction in conformance with design, general scope of necessary repairs and opinion of cost.

Property Loss Consulting

Bridgewater Apartments, 62 Cashel Street, Christchurch, NZL. Structural condition assessment services following a 6.3-magnitude earthquake in February 2011.

Hotel Grand Chancellor, Christchurch, NZL. Structural condition assessment services following a 6.3-magnitude earthquake in February 2011.

Waters Edge Apartments, Christchurch, NZL. Structural condition assessment services for a low-rise apartment building following a 6.3-magnitude earthquake in February 2011.

Forsyth Barr House, 764 Colombo Street, Christchurch, NZL. Structural evaluation of an 18-story structure after the February 2011 Earthquake. Scope included the assessment and repair recommendations of the collapsed internal scissor-style staircase connecting all floors.

Food Processing Plant, Fire Response and Claim Evaluation, Cudahy, WI. Detailed structural and architectural evaluation and documentation of fire damage to a 120-year-old, 1.2-million-square-foot food-processing plant, including material testing and investigation of process equipment and MEP components throughout the facility. The project scope included development of schematic design drawings, specifications and a bid package to assist the client in developing an accurate budget for repairs.

Radio New Zealand House, Christchurch, NZL. Damage assessment, make-safe works, and conceptual repair recommendations for a four-story concrete office building.

Litigation Support

Essco v. Rivage, Birmingham, MI. Litigation support related to settlement of an existing building during construction of an adjacent building and recommended repair methods.

Wosinski, et al v. Advanced Cast Stone, et al, Milwaukee, WI. Litigation support services for the construction of a cast-in-place garage. Project scope included reviewing documents, correlating data, performing calculations and generating a report.

608 W. Adams, Chicago, IL. Litigation services on behalf of the architect and structural engineer of record.

Williams Bros. v. Heartland Cmty. Coll., Normal, IL. Project included identification of design deficiencies affecting the construction of a recreation center.

Gavin Sch. Dist., Ingleside, IL. Litigation support regarding the failure of timber roof trusses at Gavin Central School.

Select Papers, Lectures and Publications

"A Bet on Steel," *Modern Steel Construction*, April 2024. (co-author)

CONTACT

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