

Lisa A. Davey, P.E.

Principal



Summary

Ms. Davey has structural engineering expertise in a variety of project types, including commercial office buildings, residential and hospitality projects, cultural facilities, schools and transportation projects. She manages the aspects of design and relevant portions of construction administration, and her responsibilities include coordinating and supervising the technical aspects of projects, and interaction with architects, building facility and property managers, developers, building owners, contractors and attorneys.

Areas of Technical Expertise

- Structural Engineering
- Forensic Structural Engineering
- Emergency Response

Education

- M.S.C.E., 2000, Tufts University, Medford, MA
- B.S.C.E., 1996 Union College, Schenectady, NY

Registrations

- Licensed Professional Engineer (New York, Massachusetts)

Professional Activities

- Appointed to the Massachusetts Board of Building Regulations and Standards, 2017
- Board of Directors Member, Structural Engineers Association of Massachusetts, 2016
- Mid-term Review Critic, Harvard Graduate School of Design, Fall 2013, 2014, 2017
- Guest Lecturer, Harvard Graduate School of Design, 2014
- Design Review Critic, Boston Architectural College, 2014
- Instructor, Yale School of Architecture, Graduate Course in Systems Integration, 2011-2013

Select Project Experience

Structural Engineering

11 Times Square, New York, NY. Structural design of a 38-story office building with a 55-foot tall penthouse enclosure. The tower is the first core-first office tower in New York (utilized Peri jump forms).

200 Fifth Avenue, New York, NY. Structural engineering for alterations that included widening the existing courtyard at the lower floors, creating new second through fourth floors in the west portion of the courtyard, and creating a dramatic three-story lobby space.

Forensic Structural Engineering

I-35 West Bridge Collapse, Minneapolis, MN. Forensic vehicular bridge collapse investigation on behalf of the consortium of attorneys representing the victims.

75/125 Binney Street, Cambridge, MA. Structural investigation regarding excessive slab deflections at the building's perimeter framing and subsequent curtain wall panel fit-up issues.

Emergency Response

Seaview Condominiums, Revere, MA. Emergency response services to immediately shore and stabilize a failed steel column supporting 12 stories. Services included stabilization design, contract documents for jacking the column into its original position and a permanent repair.

Confidential High Rise, MA. Emergency response services for a connection failure during the construction of a 22-story steel-framed building. Retained by the general contractor as a third-party structural engineer; failure situation was assessed and peer review was provided for the proposed remedial work. Scope also included on-site review of all critical steel connections post incident.

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Sworn Testimony

Arbitration, LTF Construction Company, LLC vs. Integrated Engineering Solutions, Inc. and William E. Dailey, Inc. Case involving structural engineering standard of care of a precast panel design for a health club facility. February 2016.

Deposition and Trial, Douglas and Kristen Rawan vs. Kanayo Lala, P.E. Commonwealth of Massachusetts Superior Court Department of the Trial Court. Case involving structural engineering standard of care for a private residence. October 4, 2013 and October 1, 2014.

Litigation

Dassault Systems, Waltham, MA. Litigation support services regarding the design of an office building with below grade parking that experienced a partial collapse. Investigated the adequacy of the structural framing and connection design and opined on the structural engineer of record's standard of care.

Animal Rescue League of Massachusetts, MA. Litigation support services that included investigating alleged structural and architectural design defects of a new light-gage metal frame building and the renovation of an existing concrete masonry unit structure.

Soccer Stadium, UK. Litigation support services related to a multi-million-dollar delay claim on a 90,000-seat stadium.

Independence Harbor 1, Edgewater, NJ. Litigation support services that included investigating the adequacy of the steel and reinforced concrete-framed structures to resist design loads.

German School of New York, Westchester County, NY. Litigation support services regarding the design and construction of a long-span gymnasium roof that collapsed during erection.

Alternative Dispute Resolution

Dispute between a higher education university and a general contractor, that included structural engineering and building envelope analysis for a construction claim.

Dispute between a government agency and a design-build contractor, that included structural and mechanical engineering analysis for a construction claim.

Papers, Publications and Presentations

"Lessons in Forensics," Structural Engineering Association of Massachusetts (SEAMASS), September 2016 (Presenter)

"Lifting Columns of Existing Structures Under Existing Loads," ASCE Forensics Engineering 7th Congress, Miami, FL, November, 2015 (Author and Presenter)

"Authenticity vs. Stability: Challenges in Restoring the Sun Building," RCI Building Envelope Technology Symposium, Nashville, TN, November 2015 (Presenter)

"Structural Investigation of the Sherman Minton Bridge Closure," ASCE Forensic Engineering, 2012, (Co-author)

Contact

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