

# GARY STORM, P.E., LEED AP

## Senior Principal



### Summary

Gary Storm joined Thornton Tomasetti in 2005. He has more than 30 years of structural engineering experience, specializing in the design of long-span roof structures for stadiums and arenas around the world. Gary also is proficient in structural investigations, renovations, additions to existing structures and rigging engineering for large-scale and complex entertainment events.

### Areas of Technical Expertise

- Structural Engineering - Long Span Structures
- Forensic Structural Engineering

### Education

- M.S., Structural Engineering, 1988, The University of Kansas-Lawrence
- B.S., Civil Engineering, 1980, The University of Kansas-Lawrence

### Registrations

- Licensed Professional Engineer in AL, CO, FL, GA, IN, IA, KS, LA, MD, MI, MS, MO, NE, NV, NJ, NY, NC, ND, OH, OK, PA, RI, TN, TX, VA and WI
- LEED-Accredited Professional

### Professional Activities

- Member, American Society of Civil Engineers
- Member, International Concrete Repair Institute
- Member, American Institute of Steel Construction
- Member, Engineers Club of Kansas City
- Member, Missouri Structural Assessment and Visual Evaluation of Buildings and Vertical Structures Coalition

### Select Project Experience

#### Structural Engineering - Sports and Public Assembly

**Barclays Center**, Brooklyn, NY. Structural design and Revit / Tekla BIM services for an award-winning 18,103 seat, 675,000-square-foot arena.

**Mercedes-Benz Superdome, Enhancements 2009-2011**, New Orleans, LA. Structural interior design renovations for a new lower-level seating bowl with expanded concourses new suites and overbuild for a new press box.

**Mercedes-Benz Superdome, Capital Improvements**, New Orleans, LA. Structural engineering for renovations to a historic NFL stadium built during the 1970s. The project includes the removal of sideline ramps, and the addition of new stairs, elevators, escalators and concourses. Portions of the existing concourse were removed to create an atrium the full height of the stadium. Modifications were made to the existing seating bowl to create wide ADA seating and standing room only decks.

#### Forensics Structural Engineering

##### Indiana State Fair Commission Collapse Incident

**Investigation and Report**, Indianapolis, IN. Structural engineering services for developing an independent cause and origin opinion regarding the collapse of a ground-supported temporary entertainment rigging structure.

**AMI Stadium**, Christchurch, NZL. Structural damage assessment and repair feasibility study of the concrete superstructure and foundations of a 39,000-seat stadium following major earthquakes.

**Binghamton-Johnson City Joint Sewage Treatment Plant**, Vestal, NY. Litigation support services regarding cause and origin of a wall collapse at a sewage treatment plant.

**Haymarket Pedestrian Bridge, Construction Failure**, Lincoln, NE. Structural failure investigation of a 614-foot-long, four-span post-tensioned girder for a pedestrian bridge.

\*Denotes work performed with previous employer.

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### Indiana State Fair Commission Collapse Incident

**Investigation and Report**, Indianapolis, IN. Structural engineering for developing an independent cause and origin opinion regarding the collapse of a ground-supported temporary entertainment rigging structure.

**CenturyLink Center Omaha, Tornado Damage Structural Inspection**, Omaha, NE. Detailed inspection of structure and cladding damage following a tornado.

**Cives Steel, Fabrication Plant Fire Damage Investigation**, Gouverneur, NY. Investigation and assessment of damage due to fire at a major steel fabrication plant. Services provided included evaluation of repair scope and costs.

**Elks Building, Collapse Investigation**, Clinton, MO. Structural investigation of the collapse of a 120-year-old, 3-story masonry building.

**Caesars Superdome, Hurricane Katrina Damage Investigation and Repairs**, New Orleans, LA. Structural damage investigation of the home of the NFL's New Orleans Saints following Hurricane Katrina. Renovations included full roof deck replacements and internal repairs, concourse expansion, new scoreboards, new camera platforms and club improvements.

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

**Monticello Casino, Earthquake Damage Investigation**, Santiago, CHL. Investigation of major earthquake damage to several casino buildings and two long-span roof structures.

**Reliant Stadium, Fabric Damage Investigation**, Houston, TX. Investigation of hurricane wind load damage to a fabric roof that covers movable and fixed roofing panels.

**Syngenta Warehouse, Collapse**, Waterloo, NE. Investigation, damage assessment and reconstruction support services for a pre-engineered metal building that collapsed under snow loads.

### Litigation

The Village at White Birch Town Homeowners Ass'n v. Goodman Assoc. Inc., et al, regarding the cause and origin of sagging joists. Required structural investigative services for a townhouse development that contains more than 200 units.

City of Binghamton, et al v. Contractor, regarding cause and origin of a wall collapse at a sewage treatment plant.

### Sworn Testimony

Deposition, Central Texas Highway Constructors v. Lexington Ins. Co., regarding alleged damages during construction. May 30, 2015.

Deposition, Polet, et al v. Mid-America Sound, et al, regarding the Indiana State Fair Collapse incident. September 4-5, 2013.

Deposition, Estate of Tony Komer v. Elks, regarding the collapse of a 120-year-old, three-story masonry building that involved a fatality. February 2010.

Deposition, State of Louisiana v. Firestone, et al, regarding damage to the Superdome's roof sustained during Hurricane Katrina. April 2008.

### Alternative Dispute Resolution

Dispute between a building owner and insurer regarding a medical office tower damaged during Hurricane Ike.

### Select Papers, Lectures and Publications

"Dunkin' Donuts Center Renovation and Expansion," Structure Magazine, September 2007 (co-author)

"Special Delivery," Modern Steel Construction Magazine, August 2005 (author)

"Crowning Glory," PANSTADIA International Magazine, April 2001 (author)

"Guangdong Olympic Stadium," Structural Engineer Magazine (Cover Story), June 2001 (author)

"Building Tension in Buffalo," ASCE Magazine, May 1997 (author)

### CONTACT

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