

CHASE ANDERSON, P.E.

Senior Associate



Summary

Chase Anderson joined Thornton Tomasetti in 2019. He has more than 10 years of structural engineering experience in forensic investigation, property loss consulting, litigation support, and structural analysis and design. He has performed numerous hurricane-related structural and building envelope investigations throughout the coastal areas of every state from Texas to North Carolina. Chase has worked on high-profile investigations, including emergency response for the collapse of the FIU pedestrian bridge and CDMX Metro Line 12. He has experience testifying as an expert witness in depositions, and has investigated failures on hundreds of buildings. He has experience in design, analysis and investigation, including construction materials such as reinforced concrete, steel, masonry and wood. He has project experience in the residential, commercial and industrial sectors, including design and construction for multi-billion dollar petrochemical facilities.

Areas of Technical Expertise

- Forensic engineering
- Property loss consulting
- Structural engineering

Education

- M.S., Structural Engineering, 2010, The University of Texas at Austin
- B.S., Civil Engineering, 2009, Texas A&M University

Registrations

- Registered Professional Engineer in AL, AZ, FL, GA, LA, MO, MS, NC, SC, TN, TX
- FAA Unmanned Aerial Pilot, UAS Part 107

Professional Activities

- Secretary, American Society of Civil Engineers, Committee on Forensic Investigations (ASCE)

Select Project Experience

Forensic Engineering

Confidential Adjacent Construction Evaluation, Sarasota, FL. Investigated alleged damage to a historic building due to construction of a neighboring high-rise residential tower.

James Rickards Middle School Collapse, Oakland Park, FL. Cause and origin investigation of a partial roof collapse.

Residential Sinkhole Damage Evaluations, FL. Investigated multiple litigation matters regarding damages due to foundation repairs to residences that suffered from sinkhole activity.

Multi-family Residential Stucco and Building Envelope

Investigations, FL. Investigated multiple litigation matters regarding alleged construction defects due to the installation of stucco assemblies, fenestrations, framing, and exterior siding.

FIU Pedestrian Bridge Collapse, Sweetwater, FL.* Emergency response in the wake of a fatal pedestrian bridge collapse over a highly trafficked roadway. Worked in conjunction with local authorities during the rescue attempts to gather and preserve evidence for further investigation. Utilized an unmanned aerial system, 3D laser scanner, and traditional photography to document the scene in the immediate hours after the collapse.

Property Loss Consulting

Hurricane Ida, Confidential Building Envelope and Roof

Assessment, LA. Investigated extent of hurricane-related damage to building envelope and roofing assemblies for multiple nursing home facilities throughout southern Louisiana.

Hurricane Sally, Condominium Building Envelope and Roof

Assessments, Gulf Shores and Orange Beach, AL. Investigated extent of hurricane-related damage to exterior building envelope, fenestrations, and roofing assemblies for multiple condominium properties.

*Denotes work performed with previous employer.

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Hurricane Laura, Capital One Tower, Lake Charles, LA. Investigated extent of hurricane-related damage to the roofing systems and exterior glass curtain wall assemblies.

Hurricane Irma, Confidential Commercial Plaza Building Envelope and Roof Assessment, Miami Gardens, FL. Investigation to determine extent of hurricane-related damage to a 200,000+ square-foot commercial plaza consisting of multiple roof and exterior façade types.

Wind and Hail Evaluations, multiple locations, USA. Structural investigation to determine the extent of wind and/or hail damage to a variety of roof types for hundreds of structures.

Tornado Evaluations, TX, OK and LA. Structural investigation of various types of commercial structures, residential structures, and military facilities to determine the extent of damage from tornado impact and suggested repair protocols.

Fire Evaluations, multiple locations, AL, FL, OK and TX. Evaluated damage from fire at residential and commercial properties. Evaluated the extent of fire damage to the steel and concrete structural elements at a sawmill facility in Alabama, and suggested repair protocols for damaged members.

Structural Damage due to Vehicle Impacts, SC and TX. Evaluated the extent of damage resulting from vehicle impacts to residential and commercial property.

Structural Engineering

Queensland Curtis LNG, Curtis Island, Australia. * Performed steel and concrete design on large-scale structures and foundations for construction of a multi-billion dollar industrial facility. Oversaw the entire life cycle of the project including design, on-site construction assistance, and startup of the facility. Responsible for coordinating and resolving the field-related issues in the civil and structural scope for entire project.

ExxonMobil Beaumont Refinery – SCANFiner Expansion, Beaumont, TX. * Performed preliminary civil/structural design for an expansion project at one of the largest refineries in the USA. The expansion project utilized proprietary technology to improve environmental impacts by removing sulfur from produced fuels. Responsibilities included creating the project specifications and standard drawings, as well as regular site visits to determine requirements for the expansion project.

Litigation

3315 Tower Condo. Ass'n, Inc. v. Coastal Constr. of S. Florida, Inc., Miami Beach, FL. Investigated alleged construction defects regarding waterproofing, exterior tile flooring, guardrails, safety glazing and stucco.

Aria Condo v. Suffolk Constr. Co., Inc., Longboat Key, FL. Investigated alleged construction defects regarding rooftop paving systems, drains, waterproofing, stucco, and a pedestrian bridge.

Coronado Condo. Ass'n, Inc. v. Walker Parking Consultants, Sunny Isles Beach, FL. Investigation of alleged construction deficiencies regarding a previously completed concrete rehabilitation project on a multi-level parking structure and pool deck.

Sworn Testimony

Deposition, Lisenby Prop., LLC v. Cymbal Prop., LLC regarding the evaluation of existing fire damage to a wood-framed apartment structure in Thomasville, AL. March 1, 2022.

Deposition*, White v. State of Louisiana through the Department of Transportation & Development. Testified regarding the implementation of Louisiana Department of Transportation and Development standard drawings for traffic control in a construction work zone. August 9, 2017.

Select Papers, Lectures and Publications

"Aluminum Interaction with Cementitious Materials in a Coastal Environment," ASCE Forensic Engineering 9th Congress, Denver, CO, November 2022 (co-author)

"Short Course - Guidelines for Failure Investigations, Volume 2," ASCE Forensic Engineering 9th Congress, Denver, CO, November 4, 2022 (co-presenter)

"Complex Engineering for Property Cases," Florida Bar RPPTL Insurance and Surety Committee webinar, March 2021 (co-presenter)

"Guidelines for Failure Investigation", Second Edition, ASCE Press (contributor)

"Washed Away: What Hurricanes Have Wrought and What Is Left Behind", Federation of Defense & Corporate Counsel, 2019 Winter Meeting, Austin, TX, March 2019 (co-presenter)

CONTACT

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