

TIMOTHY (TIM) PHELAN, M.S., P.E., S.E., M.L.S.E.



EDUCATION:

M.S. in Engineering, Civil/Structural Emphasis, University of Texas, Austin, TX
B.S. in Civil Engineering, Structural Emphasis, Purdue University

REGISTRATION:

Licensed Professional Engineer in the following States:
Colorado, Wyoming, Montana, North Dakota, South Dakota, New Mexico, Texas, Ohio, and Minnesota
Licensed Structural Engineer in Arizona, Nebraska, Nevada, and Oklahoma
National Council of Examiners for Engineering and Land Surveying (NCEES) Record Holder
NCEES Model Law Structural Engineer

EXPERIENCE:

Director of Engineering, Knott Laboratory, LLC, March 2020 to Present, Engineering Manager, March 2017 to March 2020, Centennial, Colorado
Project Engineer, Envista Forensics (Previously PT&C|LWG Forensic Consulting Services), August 2012 to March 2017, Denver, Colorado
Forensic Structural Engineer, Western Engineering and Research Corporation, September 2011 to August 2012, Denver, Colorado
Structural Engineer, URS Corporation, July 2001 to September 2011, Columbus, Ohio
-Bridge Engineer, URS Corporation, February to November 2005; Austin, Texas, and August 2007 to March 2008, El Paso, Texas
-Structural/Bridge Engineer, URS Corporation, November 2005 to November 2009, Colorado Springs, Colorado

FORENSIC ENGINEERING:

Mr. Phelan has investigated cases involving property damaged by fire, flood, moisture intrusion, inadequate drainage, pipe failure, corrosion, hail, wind, snow, soil subsidence, foundation failure, structural member failure, vehicular collisions, construction defects, seismic activity, and mechanical damage. His findings focus on rendering professional opinions regarding building and occupant safety, property damage assessments, identifying the point of origin for structural and building envelope failures, identifying continuous load paths or discontinuities in load paths, and designing efficient methods of repair or reconstruction. His extensive experience in analysis and design combined with Knott Laboratory's testing capabilities enable him to analyze and solve a wide variety of structural problems and failures.

Mr. Phelan has investigated damage to multiple structural and architectural components as a result of wildfires and structure fires including wood framing, masonry, roofing systems, siding, stucco and windows. Similarly, Mr. Phelan has investigated numerous structures for the extent of damage to exterior building components from hail and wind events. As a result of his investigations, Mr. Phelan has testified in court as an expert witness.

ENGINEERING AND CONSTRUCTION EXPERIENCE:

Mr. Phelan has a wide breadth of engineering design experience including bridges and bridge components, multi-story office and medical facilities, water and wastewater facilities, warehouses, and commercial buildings. He has performed designs using a variety of structural materials including steel, masonry, concrete, and timber. Through his designs, he has accumulated a thorough knowledge of the building codes and standards used in construction. He has carried his projects from the design phase through construction by reviewing shop drawings to ensure accuracy of the design intent, providing answers to information requests, or providing engineering analysis of change orders proposed. Additionally, Mr. Phelan has provided solutions to a wide array of problems in all stages of the construction process while working with many diverse professionals including architects, engineers, contractors, and owners.

MEMBERSHIPS AND PROFESSIONAL AFFILIATIONS:

Mr. Phelan is a member of the following technical and professional societies.

- American Society of Civil Engineers Member since 2006,
- Colorado Section Secretary, 2016 – 2017
- ASCE - Colorado Section Vice President, 2017 – 2018
- Colorado Section President, 2018 – 2019
- Colorado Section Past President, 2019 – Present

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