

Jean Dewey

Forensic Engineering Expertise

Structural Analysis/Design

Review appropriate documents including project plans and specifications as it relates to the building structure for purposes of failure analysis and extent of resulting damages. In addition, being a licensed professional engineer, replacement designs are provided upon request. Examples of past work includes analysis of structures (concrete, steel, wood, masonry) and damage assessment of building structures after a fire and vehicle or other impact.

Origin & Cause

Determine the source and responsible party or element related to the failure of a structural or architectural element.

Inspection and Evaluation of Roofing Systems

This includes steep and low slopes roofs as well as various types of roofing materials including both common and unique roofing applications. Past work involved offering opinions and repairs related to installation deficiencies and storm-related damages including for hail and wind.

Qualifications & Training

- Stabilizing San Francisco's Leaning Tower, SEA webinar, January 2023
- The Future of the Built Environment, the AEC Industry and the Role of the Structural Engineer, National Council of Structural Engineers Association (NCSEA) Structural Engineering Summit, November 2022
- ASCE/SEI 7-22: Seismic: Learn from the Experts, NCSEA Structural Engineering Summit, November 2022
- Time-saving Reinforced Concrete Design Based on ACI 318-19, NCSEA Structural Engineering Summit, November 2022
- Cold-Formed Steel – Latest Design Provisions, NCSEA Structural Engineering Summit, November 2022
- AISC Design Guide – Hybrid Steel Frames with Wood Floors, NCSEA Structural Engineering Summit, November 2022
- Load Testing of In-Service Structures: Case Studies and Lessons Learned, NCSEA Structural Engineering Summit, November 2022
- Seismic Design in Steel – Concepts and Examples, AISC Night School 30, October 2022
- Seismic Design of Moment Frames, American Institute of Steel Construction (AISC) Night School 30, October 2022
- Seismic Design of Braced Frames, AISC Night School 30, October 2022
- Seismic Design of Buildings, AISC Night School 30, October 2022
- Planning the Seismic Design, AISC Night School 30, October 2022
- Building Analysis and Diaphragm Design, AISC Night School 30, October 2022
- Moment Frames, AISC Night School 30, October 2022
- Design of the Braced Frames, AISC Night School 30, October 2022
- Connection Design, AISC Night School, September 2022
- Computer Analysis Verification, AISC Night School, September 2022
- Do's and Don'ts of HSS, Steel Tube Institute webinar, September 2022
- Base Plates and Anchor Rods, AISC Night School, August 2022
- Design of Steel Flexural Members- Cantilever and Overhanging Beam Design, AISC Night School, August 2022
- Design of Single Angles in Flexure, AISC Night School, August 2022

- Practical Composite Beam Design, AISC Night School, August 2022
- Load Path, AISC Night School, August 2022
- Wind and Seismic (SDPWS) 2021 updates, SEU webinar, July 2022
- Introduction and Lateral Load Considerations for Design of Members, AISC Night School, July 2022
- California Office of Emergency Services, Safety Assessment Program, National Council of Structural Engineers Association, April 2022
- Serviceability of Concrete Slabs, SEU webinar, February 2022

Education

Master of Science Degree in Civil Engineering – Civil Engineering
Michigan Technological University, Houghton, MI
2013
Bachelor of Science in Environmental Design
University of Colorado, Denver, CO
2008

Licenses & Certifications

PE - Professional Engineer
Licensed by the State of Michigan – Number 6201310719

Employment History

Forensic Engineer
Nederveld, Grand Rapids, MI
2023 - Present

Duties include forensic engineering analysis relating to building pathology, structural damage due to fire, structural damage from vehicle impacts, storm damage (wind, snow, hail), seismic, and water loss events, calculations, and plan of repair design.

Structural Engineer
GMB, Royal Oak, MI
2018 - 2023

Duties included structural design and Revit documentation for a variety of education facilities and outdoor sports projects. Managed engineering, owner meetings, shop drawings, RFIs and field issues to meet project deadlines. Lead meetings and training, improved company standards. Inspection and evaluation of existing structures.

Structural Engineer
IBI Group, Southfield, MI
2016-2018

Duties included structural design and Revit documentation for a variety of industrial facilities and steel structures. Development of engineering calculations and analysis models. Inspection and evaluation of existing structures.

Structural Engineer
Rocky Mountain Prestress, Denver, CO
2014-2016

Duties included managing engineering, shop drawings, and piece drawings for precast parking garages or precast mixed-use buildings. Monitored production at on-site plant and created fixes. Sized cranes, lifting hooks, and shoring for manufacturing and erection process.

Graduate Research Assistance
Michigan Technological University, Houghton, MI
2010-2013

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