



PERSONNEL QUALIFICATIONS

Zeno Martin | Associate Principal



EXPERIENCE

Zeno Martin has accomplished numerous investigations of existing structures focused on structural issues, including performance, excessive movements, deterioration, fire damage, construction defects, and failures, and in designing appropriate repairs. He examines many types of structures, including low-rise and high-rise buildings, parking structures, bridges, temporary falsework, tanks, and foundations. Mr. Martin has experience evaluating and designing with concrete, steel, wood, and masonry materials.

Prior to joining WJE in 2008, Mr. Martin worked for APA – The Engineered Wood Association, where he tested to failure a wide variety of wood structural products, including large-scale assemblies. He also has experience developing building code design provisions and deriving design values. Mr. Martin was instrumental in the development of new wall bracing provisions now in the International Building Code and International Residential Code.

Mr. Martin has authored dozens of papers and has had articles published in several different magazines and journals. He is the coauthor of a text published by the International Code Council and a chapter author for a textbook published by McGraw-Hill. Mr. Martin has also presented at a number of professional conferences.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Clatskanie Ethanol Plant - Clatskanie, OR: Investigation of process tank bolted connection failures
- Four Seasons Hotel and Private Residences - Seattle, WA: Post-tensioned concrete slab deflection analysis
- Sprint Data Center - San Jose, CA: Wood beam cracking and excessive deflections
- Harrington Square Apartments - Renton, WA: Fire damage assessment of post-tensioned concrete slab
- Hylebos Bascule Bridge - Tacoma, WA: Deterioration assessment and load rating of steel bascule trusses

Failure Investigation

- I-84/Robinson Road Bridge - Nampa, ID: Steel falsework collapse
- Capital High School - Olympia, WA: Wood roof truss collapse

Repair and Rehabilitation Design

- Group Health Cooperative - Everett, WA: Design of new cladding structural support and attachments to existing structure
- Duwamish Cohousing - Seattle, WA: Repair design for damages due to expansive fill under concrete slabs

Litigation Consulting

- Morse Square - Bellingham, WA: Investigation of wood shear wall construction defect claims
- McGuire Apartments, Carpenters Tower - Seattle, WA: Investigation of post-tensioning and reinforced concrete damages claim

Testing and Instrumentation

- Glue-Laminated Timber Beams - Tacoma, WA: Testing of aged, weather-exposed, creosote-treated, checked glulam beams
- Hundreds of Element and Assembly Tests: Oriented strand board, plywood, glulam, laminated veneer lumber, I-joists, and other wood composites

EDUCATION

- Michigan Technological University
 - Bachelor of Science, Civil Engineering, 1996
 - Master of Science, Civil Engineering, 1999

PRACTICE AREAS

- Structural Evaluation
- Failure Investigation
- Repair and Rehabilitation Design
- Litigation Consulting
- Testing and Instrumentation

REGISTRATIONS

- Civil Engineer in CA, ID, OR, and WA
- Structural Engineer in AK, ID, NV, OR, and WA

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- APA – The Engineered Wood Association

CONTACT

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