



PERSONNEL QUALIFICATIONS

Cal F. Bearman | Associate III



EDUCATION

- Purdue University
 - Bachelor of Science, Civil Engineering, 2010
- University of Washington
 - Master of Science, Civil Engineering, 2012

PRACTICE AREAS

- Structural Evaluation
- Structural Analysis/Computer Modeling
- Condition Assessment
- Repair and Rehabilitation Design
- Construction Administration

REGISTRATIONS

- Professional (Civil) Engineer in CA
- Professional Engineer in WA

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Washington (SEAW)
- American Society of Civil Engineers (ASCE)

TECHNICAL COMMITTEES

- ASCE - Seattle Chapter - History and Heritage

CONTACT

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EXPERIENCE

As a member of the WJE team, Cal Bearman has contributed to a number of structural evaluation projects. He has conducted field inspections, performed code reviews, completed structural analysis using computer software, designed repairs, and overseen construction administration. Mr. Bearman has worked on projects involving wood, concrete, steel, and composite structural systems.

Prior to joining WJE, Mr. Bearman worked as a research assistant at the University of Washington. His research involved identifying key damage states in load bearing reinforced concrete columns for post-earthquake evaluation and developing a suite of special and ordinary moment frames using the OpenSees analysis platform. Mr. Bearman also took part in a five-term co-op program while at Purdue University, where he gained experience in the heavy civil contracting industry working for Traylor Brothers, Inc.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Exide Battery Building - Sumner, WA: Assessment of deterioration of wood roof trusses caused by battery manufacturing process
- Oak Park Farms, Storage Building - Shedd, OR: Site investigation of roof collapse, structural analysis and modeling, and code review

Structural Analysis/Computer Modeling

- Exide Battery Building - Sumner, WA: Computer modeling of the wood roof trusses using SAP2000 to determine the demand to capacity ratios for the truss members
- Nome State Office Building - Nome, AK: Check of column capacity calculations to ensure adequate gravity load-carrying capacity

Condition Assessment

- Market Place Garage - Seattle, WA: Survey of garage concrete and repair scope development

Repair and Rehabilitation Design

- Parking Garage - Renton, WA: Creation of repair drawings for post-tensioned slab

Construction Administration

- Parking Garage - Renton, WA: Overseeing of repair work for tendons in post-tensioned reinforced concrete slab