



## PERSONNEL QUALIFICATIONS

### John R. Crase | Senior Associate and Associate Unit Manager



#### EDUCATION

- Saint Martin's College
  - Bachelor of Science, Civil Engineering, 1999

#### PRACTICE AREAS

- Repair and Rehabilitation Design
- Failure Investigation
- Structural Evaluation
- Litigation Consulting
- Bridge Engineering
- Wood Structures

#### REGISTRATIONS

- Professional (Civil) Engineer in CA and WA
- Professional Engineer in IA, ID, MT, NE, and OR

#### PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Washington
- American Welding Society

#### CONTACT

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#### EXPERIENCE

John Crase has broad-based experience in the construction industry, working on projects involving timber, steel, and concrete on a variety of industrial, commercial, and transportation structures. He focuses on the investigation, evaluation, and repair of structures, and provides clients with practical solutions that balance economics, serviceability, and life cycle.

Prior to joining WJE, Mr. Crase spent six years as General Manager of a wood component manufacturer and five years as project engineer for Vector Engineering, where he provided civil and structural solutions for public agencies, developers, heavy civil contractors, and the timber industry.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation Design

- Stoneridge at Cornell Apartments- Hillsboro, OR: Structural assessment of fire damage and repair design
- Major Retail Chain - Nationwide: Design of repairs for deficient or damaged steel framing components
- Packrat Storage - Puyallup, WA: Design of repairs for lift truck damage to roof framing

##### Failure Investigation

- WESCU 10th Street Garage - Olympia, WA: Investigation of glass panel failure
- Madison Elementary School - Olympia, WA: Investigation of water infiltration and related structural damage
- RBB Warehouse- Vancouver, WA: Investigation of tilt up warehouse damaged by explosion

##### Structural Evaluation

- Parking Garage - Seattle, WA: Evaluation of post-tensioning cable corrosion and concrete spalling
- Major Retail Mall - Tukwila, WA: Analysis of severed concrete deck reinforcing
- Franklin Lofts Roof Evaluation - Denver, CO: Analysis of roof top tree planters

#### Concrete Structures

- POL Pier Repairs, Diego Garcia, B.I.O.T: Design of precast concrete formwork, hoisting, and erection plans
- SR 509 Overcrossing - Tacoma, WA: Construction engineering for cast in place box girder bridge over active rail line\*
- Precast Concrete Manholes, Kwajalein Atoll: Design of formwork and casting sequencing for precast manholes

#### Bridge Engineering

- SR 520 Bridge pontoons - Aberdeen, WA: Investigation of reinforcing and post-tensioning duct placement issues
- Reeder Road Bridge - Maytown, WA: Inspection, Load Rating of repurposed rail car bridge
- Sail and Wa'atch River Bridges- Neah Bay, WA: Plans and specifications for replacement of Federal Land Highway bridges\*
- Work Center Bridge - Pacific County, WA: Plans and specifications for fish stream crossing\*

#### Wood Structures

- Nevdiv Residence - Leavenworth, WA: Review of design criteria for metal plate connected trusses subject to snow and snow drift loads
- Life Care Centers - Various, WA: Evaluation of wood framed structures subject to impact damage
- School of Industry Building - Bellingham, WA: Timber truss design\*

*\*Indicates with previous firm*