



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 ID, MT, and OR
- AWS Certified Welding Inspector

PROFESSIONAL AFFILIATIONS

- American Welding Society
- Structural Engineers Association of Washington

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

- Cook Residence - SeaTac, WA: Structural assessment of vehicle impact 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

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
- Commencement Bay Sawmill - Tacoma, WA: Load rating and evaluation of shop facility *

Litigation Consulting

- Cambria Hills Condominiums - Bothell, WA: Investigation of exterior deck and sidewall deterioration
- Horizon Village - Bellevue, WA: Observation of selective repair to elevated walkways and decks
- Sturgis Residence - Gig Harbor, WA: Investigation of building setback and permitting issues

Bridge Engineering

- SR 520 Bridge Pontoons - Aberdeen, WA: Investigation of reinforcing and post-tensioning duct placement issues
- Sail and Watch River Bridges - Neah Bay, WA: Plans and specifications for replacement of Federal Land Highway bridges *
- SR 509 Overcrossing - Tacoma, WA: Construction engineering for cast-in-place box girder bridge over active rail line *
- Work Center Bridge - Pacific County, WA: Plans and specifications for fish stream crossing *

Wood Structures

- Grandview Heights - Shelton, WA: Design review and construction sequencing to facilitate prefabrication of framing for forty-five single-family residences *
- School of Industry Building - Bellingham, WA: Timber truss design *
- Simpson Radio Shop Building - Shelton, WA: Repair of bowstring truss chord failure *

* Indicates with previous firm