PERSONNEL QUALIFICATIONS

Ryan Sitar | Senior Associate

EDUCATION

- University of California, San Diego
  - Bachelor of Science, Structural Engineering, 2019
- University of California, Berkeley
  - Master of Science, Structural Engineering, 2020

PRACTICE AREAS

- Failure/Damage Investigations
- Concrete Structures
- Structural Analysis/Computer Applications
- Historic Preservation
- Facade Access

REGISTRATIONS

- OSHA 10-Hour Training
- Professional (Civil) Engineer in CA

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers

CONTACT

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EXPERIENCE

Since joining WJE in 2020, Ryan Sitar has been involved with failure investigations, condition assessments, and construction period services. He has also worked on various structure types, including residential, commercial, civil infrastructure, and historic buildings.

Mr. Sitar has experience with in situ load testing, material property testing, and nondestructive evaluation techniques that he utilizes for field investigations and construction support services. He has also participated in multiple failure and damage investigations of wood, steel, and concrete structures. In addition to failure investigations, construction observations, and field testing, Mr. Sitar has performed analyses and has developed repair documents for structural elements.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Residential Slope Failure - Los Angeles, CA: Damage assessment and failure investigation related to large-scale slope failure and associated structural damage
- Facade Collapse - Temple City, CA: Failure and causation investigation for collapse of wood-framed commercial building facade
- Steel Framing Collapse - Long Beach, CA: Failure and causation investigation for collapse of steel framing during construction
- 1st and Rowan Development - Los Angeles, CA: Fire damage assessment of mixed-use residential building, load testing, in situ steel hardness testing, and material sampling
- Wind Turbine Fire Damage Assessment - Mojave, CA: Condition assessment and in situ hardness testing of wind turbine tower base
- El Monte Gateway Development - El Monte, CA: Condition assessment of multistory, exposed wood-framed structure; nondestructive testing of glued laminated wood beams
- Department Store - Mission Viejo, CA: Investigation of slab displacement and conceptual repair recommendations

Concrete Structures

- John Anson Ford Park Stormwater Capture Cisterns - Bell Gardens, CA: Condition assessment of installed precast box culverts, troubleshooting, and repair design assistance
- Bridge Abutments - Selma, CA: Nondestructive evaluation and repair recommendations of recently constructed mass concrete bridge abutments
- Wastewater Treatment Facility - Chino, CA: Structural condition assessment of cast-in-place concrete digester tank, material sampling, development of repair documents, and construction phase services
- San Marcos Civic Center Parking Structure - San Marcos, CA: Structural condition assessment, documentation of as-built conditions, and repair recommendations

Structural Analysis/Computer Applications

- Edgewater Towers Condominiums - Pacific Palisades, CA: Limited seismic analysis of steel columns and reinforced concrete shear walls for buildings with lift-slab construction
- Palo Verde Generating Station - Tonopah, AZ: Peer review of structural design documents for glass fiber reinforced polymer reinforced precast panels
- AC133 Test Data Analysis - Northbrook, IL: Algorithm development in support of ICC-ES applications for reinforcing bar mechanical splices

Historic Preservation

- The U.S. Grant - San Diego, CA: Assessment of facade condition and historic wood windows; restoration and repair recommendations
- Fire Station No. 23 - Los Angeles, CA: Condition assessment of historic concrete firehouse; documentation of interior/exterior finishes

Facade Access

- 977 North Broadway - Los Angeles, CA: Assessment and testing of existing facade access system; design and testing of new facade access system
- Santa Ana Federal Building - Santa Ana, CA: Testing of new facade access system