

### Hayley Proctor | Associate III



#### EDUCATION

- University of California, Berkeley
  - Bachelor of Science, Civil and Environmental Engineering, 2016
  - Master of Science, Civil Engineering (Structural Engineering, Mechanics, and Materials), 2018

#### PRACTICE AREAS

- Structural Analysis
- Seismic Repair and Retrofit
- Earthquake Engineering
- Failure/Damage Investigations
- Nondestructive Evaluation
- Design
- Litigation Consulting
- Historic Preservation

#### REGISTRATIONS

- Civil Engineer in CA

#### PROFESSIONAL AFFILIATIONS

- Earthquake Engineering Research Institute (EERI)
- Structural Engineering Association of Northern California (SEAONC)

#### TECHNICAL COMMITTEES

- SEAONC - Existing Buildings Committee
- SEAONC - Structural Engineering Engagement, and Equity, past chair

#### CONTACT

hproctor@wje.com  
510.428.2907  
www.wje.com

#### EXPERIENCE

Hayley Proctor specializes in the evaluation and analysis of existing structures. She focuses on failure investigations, seismic evaluation techniques and retrofits, nondestructive evaluation, and litigation consulting.

Ms. Proctor employs advanced structural computer modeling and analysis techniques for various materials, including steel, concrete, wood, and masonry.

#### REPRESENTATIVE PROJECTS

##### Structural Analysis

- Miami Marine Stadium - FL: Nonlinear, staged-construction analysis of three-dimensional model for cantilevered concrete stadium roof
- Nonbuilding Structure - CA: Nonlinear, time-history analysis of cable assembly to evaluate friction wear on components
- Warehouse - Brisbane, CA: Analysis of concrete slab-on-grade and driven concrete piles for subgrade disturbances to assess possible damage to structural and nonstructural components

##### Seismic Repair and Retrofit

- Nonductile Concrete Building - Los Angeles, CA: Analysis and schematic seismic retrofit of six- to nine-story, nonductile lift-slab concrete buildings built in the 1960s
- Historic Structure - Alcatraz Island, CA: Development of seismic stabilization improvements for historic unreinforced concrete masonry structure
- Unreinforced Masonry (URM) School - San Francisco, CA: ASCE 41 Tier 3 evaluation and retrofit design of interconnected URM (circa 1919) and concrete (circa 1930) structures
- Veterans' Memorial Auditorium - San Rafael, CA: Seismic retrofit design and construction administration of 1960s theater

##### Earthquake Engineering

- US Department of State: Seismic evaluation of existing residential buildings in multiple countries
- URM Buildings - Salt Lake City, UT: Post-earthquake damage assessment and evaluation of code triggers for disproportionate earthquake damage

##### Failure/Damage Investigations

- Mid-Twentieth-Century Wood Truss Roof Structures - San Francisco Bay Area, CA: Investigation and evaluation of fractured members and connection failures
- Steel Fractures - Santa Rosa, CA: Investigation and laboratory testing of fractured HSS members discovered during construction
- Balcony Structural Inspections - San Francisco Bay Area, CA: Condition assessments of wood and steel balcony and guardrail components for deterioration and decay

##### Nondestructive Evaluation

- Facade Access Testing - San Francisco Bay Area, CA: In-situ load testing on facade access equipment, including davits, roof davit bases, fall-protection anchors, and equipment lift points
- Wood Framed-Buildings - San Francisco Bay Area, CA: Pre-and post-construction condition assessments of residential buildings, including vibration monitoring during ongoing adjacent construction or soil remediation
- Concrete Flat Slab Structures - San Francisco Bay Area, CA: Analysis and nondestructive evaluation of concrete flat-slab parking garages and office buildings for deflection and strength assessments

##### Design

- Landslide Stabilization - Moraga, CA: Analysis and design of 450-foot-long, cast-in-place, stitch pier walls and associated tiebacks to repair and stabilize existing landslide
- Kilauea Gym - Kilauea, HI: Strengthening design of existing gymnasium for use as hurricane shelter
- Buddha's Universal Church - San Francisco, CA: Concrete condition assessment, corrosion and spall repair, and recoating

##### Litigation Consulting

- High-Rise Office Building - San Francisco, CA: Investigation of construction defects in reinforced concrete deep foundation elements