

Henry Sweat | Associate III



EXPERIENCE

Henry Sweat works on a wide array of projects involving assessment, evaluation, and design related to existing structures. Mr. Sweat investigates, assesses, and determines the causes of damages on a variety of building types. Furthermore, he has conducted seismic evaluations on numerous buildings and other structures, including several that are historic. Throughout his work, Mr. Sweat performs structural analysis using a wide range of computer modeling techniques.

REPRESENTATIVE PROJECTS

Structural Analysis/Computer Applications

- Marchant on the Greenway - Berkeley, CA: Performance-based seismic analysis of massive commercial building
- Nonductile Concrete Building - San Francisco, CA: Nonlinear analysis and seismic retrofit of historic, nonductile concrete building built in the early 1900s
- Mixed-Use Buildings - Los Angeles, San Francisco, and Oakland, CA: Investigation and analysis of existing reinforced concrete slabs
- Commercial Building - Berkeley, CA: Analysis of reinforced concrete slab to accommodate conversion from a typical floor slab to a loading dock

Seismic

- Southland Mall - Hayward, CA: Seismic analysis, design, and construction administration for seismic retrofit and tenant improvements of existing shopping mall
- Manufacturing Plant - India: Seismic assessment and nonlinear analysis of nonductile concrete building
- Anna Head Buildings E/F - Berkeley, CA: Renovation and seismic retrofit of historic wood-framed building
- Apartment Building, Berkeley, CA - Design and construction administration for retrofit of apartment complex per City of Berkeley Soft Story Ordinance

Failure/Damage Investigation

- Various Wood-Framed Buildings - San Francisco Bay Area: Investigation of reported distress in various residences due to ground movement resulting from expansive soils, water leakage, and landslides
- Various Truss Failures - San Francisco Bay Area, CA: Analysis, investigation, and repair design of failed trusses
- Residence - San Francisco Bay Area, CA: Investigation of collapsed retaining wall and adjacent residence; schematic design for repair of retaining wall
- Balcony Inspections - San Francisco Bay Area: Condition assessments of balconies and guardrails containing steel and wood components, focusing on wood decay

Litigation Consulting

- High-Rise Building - San Francisco, CA: Investigation of foundation of high-rise building during construction

Design

- Apartment Complex, Sunnyvale, CA - Design of seismic retrofit and tenant improvements of existing buildings
- Ramp Design - Multiple Locations: Design of new accessible ramps, often interfacing with existing and historic structures

Instrumentation/Monitoring/Load Testing

- Various Wood-Framed Buildings - San Francisco, CA: Pre- and post-construction condition assessments of numerous residential buildings
- Warehouse - Emeryville, CA: Vibration monitoring and condition assessment of existing warehouse during construction of adjacent structure
- High-Rise Building - San Francisco, CA: Vibration monitoring during construction at adjacent property

EDUCATION

- University of California, Berkeley
 - Bachelor of Science, Civil Engineering, 2014
 - Master of Engineering, Structural Engineering, 2015

PRACTICE AREAS

- Structural Analysis/Computer Applications
- Seismic
- Failure/Damage Investigations
- Litigation Consulting
- Historic Preservation
- Design
- Instrumentation/Monitoring/Load Testing

REGISTRATIONS

- Civil Engineer in CA

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Northern California (SEAONC)

CONTACT

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