

Education

Masters of Science, Civil Engineering (Structural), Stanford University

Bachelor of Science, Civil Engineering, California Polytechnic State University, San Luis Obispo

Registrations

Professional Civil Engineer:

- Arizona 51065
- California C56540
- New Mexico 19871
- Nevada 20774
- Oregon 84203PE
- Utah 7632645-2202
- Washington 46766
- Puerto Rico 24366

Training

Structural Specialist Responder, FEMA National Urban Search and Rescue (US&R) Rescue Operations, California Task Force 3 (Menlo Park, CA)

Highlights

25+ years as a Civil Engineer/Structural Designer

10+ years designing Building Modifications and Retrofit

10+ years designing seismic bracing of MEP systems and non-Building industrial structures

5+ years performing Tier I Evaluations

Experience Summary

Mr. Falero serves as a Senior Project Manager for Partner Engineering and Science, Inc. (Partner). He is responsible for performing structural calculations in accordance with modern and historic building codes in support of building investigations and of structural retrofit, visiting properties and conducting on-site reconnaissance including structural evaluations, visual observations, planning reviews and existing report reviews, authoring seismic risk assessment reports, and providing technical recommendations and solutions to both internal and external clients.

Prior to joining Partner, Mr. Falero was responsible for the design of a diverse array of structures. These included, Multi-story steel platforms, pipe and duct support frames and conveyor systems, and Seismic Bracing of Mechanical, Electrical and Plumbing systems for the new Medical Center of Stanford University, Hospitals, Research Facilities and Utilities throughout the San Francisco Bay Area. In addition, Mr. Falero is knowledgeable with Seismic Strengthening and Retrofit of wood, concrete, steel and masonry buildings, and the seismic strengthening and new design of reinforced concrete box girder highway bridges throughout California. He has completed Seismic Evaluations of buildings both for the Federal General Services Administration as well as for Private Property Managers and owners, and Seismic Evaluations for the Building Occupancy Resumption Program (BORP) of the City of San Francisco and other Authorities Having Jurisdiction (AHJ).

Project Experience

Probable Maximum Loss (PML) Evaluations

Bank, 1801 Van Ness Avenue, San Francisco, CA, December, 2016, Lucent Capital. The original concrete building was built in the 1920s, with retrofits including steel frames dating from 1975.

Retail, 1010 East Bidwell Street, Folsom, CA, December 2016, A10 Capital. "Benchmark" tilt-up concrete panel building was constructed in 2003 with modifications in 2011.

Freddie Mac MultiFamily Seismic Risk Assessment

Multi-Family Housing, "The Tides", 3185 Garrity Way, Richmond, CA, December 2016, Holliday Fenoglio Fowler. 13-building complex of max 3-Story wood buildings was constructed in 2002-2003. An aggregate PML was provided both for the individual buildings and the complex as a whole.

California Department of General Services (DGS) Seismic Independent Review Reports

Commercial Office, 750 Riverpoint Drive, West Sacramento, CA, January, 2017, AETNA. Original tilt-up concrete panel building (with steel braced frame backup system in the short direction was constructed in 1990. A complete 'Tier 1' screening of both the structural and non-structural systems and components was performed, as well as a thorough two step opinion of costs for achieving compliance with Standard ASCE41.

Structural Strengthening & Retrofit

Multi-Family Housing, 1861 Poggi Street, Alameda, CA, December 2016, Acre Capital, LLC. 3-Story wood apartment building was constructed in early 1960s. A column at the ground floor / tuck under parking region required foundation strengthening to counter the settlement that had been experienced since before 2010. The supported building needed to be raised directly over the strengthened column.

Multi-Family Housing, 2301 and 2309 Ascot Street, Moraga, CA, January 2016, SPM Properties. 3-Story maximum wood apartment building was constructed respectively in 1972 and 1967. Seismic strengthening employed the insertion of new steel moment resisting space frames at the tuck-under parking areas.

Affiliations

Structural Engineers of Northern California (SEAONC)
American Institute of Steel Construction (AISC)
National Society of Professional Engineers (NSPE)
American Society of Civil Engineers (ASCE)
Westcon (Western Construction Consultants Association)

Publications

Speeding Across Spain, Civil Engineering Magazine, June, 2001. Observations of various phases of construction of the Madrid-Lleida line of the Linea de Alta Velocidad (AVE) high-speed bullet train, through both dense urban areas and remote mountainous terrain.

Contact

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