

NTT Silicon Valley SV1 Data Center

Santa Clara, CA

Located at 1160 Walsh Avenue, the 160,000 SF and 24MW of total critical load Silicon Valley SV1 Data Center consists of a 4-story structure that is the first facility in Santa Clara to use an earthquake-resistant design featuring a base isolation system. The project also included the construction of utilities, surface parking, pervious pavements, and landscaping. Three single-story warehouse buildings, surface parking, and storage areas previously occupied the 3-acre site.

Langan performed a geotechnical investigation to evaluate subsurface conditions and potential geologic hazards at the site and to provide recommendations for the geotechnical aspects of the proposed development. We developed recommendations for driven and auger cast piles as well as supplemental recommendations for concrete pads within the generator yard and shipping and receiving areas.

Earthquake engineering services included development of site-specific response spectra and of time series for evaluation of seismic response of the base-isolated building to the Risk-Targeted Maximum Considered and Design earthquakes.

LANGAN SERVICES:

Geotechnical
Earthquake

CLIENT:

NTT Global Data Centers Americas, Inc.

STRATEGIC PARTNER:

Paradigm Structural Engineers

