

Featured Project

Pinnacles National Park U.S. National Park Service

Central California

Pinnacles National Park is located 10 miles east of Soledad, California, and was dedicated a National Monument by Theodore Roosevelt in 1908. In 2013 Pinnacles National Park was created from the former Pinnacles National Monument. The Park encompasses 26,606 acres and consists of monoliths and spires rock formations, sheer-walled canyons, and talus caves created by millions of years of erosion and tectonic plate movement. The Park is a popular destination for rock climbers, hikers, and tourists.

ArcSine Engineering provided two separate design packages for Pinnacles National Park, which included a site power distribution system associated with housing (Design Package 1) and power distribution and controls modifications to the existing water distribution system (Design Package 2). Listed below are project specifics for each.

Design Package 1

ArcSine Engineering performed field investigation and prepared Contract Drawings for new site power distribution and service entrances to site structures which included seven new housing units, lift station, laundry building, garage, two existing housing units, and two existing maintenance units. The project included the following:

- Field investigation.
- Utility coordination and site design (electric and telephone).
- Design of 14 new multimetered service entrances.
- Design of power distribution and a generator manual transfer switch for a package lift station.
- Design for three RV site power pedestals.

Design Package 2

ArcSine Engineering performed field investigation for power distribution and controls modifications to two existing water storage tanks (Bear Gulch and Chalone). The project included the following:

- Field investigations.
- Utility coordination.
- Design of level transmitter at Bear Gulch Tank (60,000 gallons) and Chalone Tank (20,000 gallons).
- Design control modifications to tank control panels.
- Utilized existing signal cabling between tank sites for communications between control panels.
- Designed a new electric service for Bear Gulch control panel, well pump, and hypochlorinator pump.



**Electrical
Controls
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