



Harris & Associates

# UTILITIES

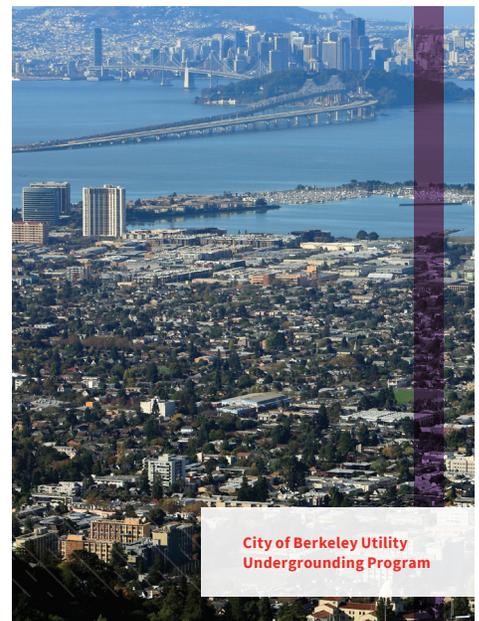
Projects involving utilities require masterful oversight to minimize disruptions while meeting safety and service delivery goals. Harris & Associates applies decades of experience to keep these projects on track—and on budget—for city and county leaders.

Municipalities have long relied on the Harris team for seamlessly planning, coordinating, and managing utility program projects. Our comprehensive skills and services cover utility relocation design and construction oversight, coordination, electrical substation site design, and undergrounding transmission lines.

## Going Underground

More communities are moving core utilities underground to improve service dependability, safety, and neighborhood aesthetics. Harris provides end-to-end services for planning, permitting, designing, and ultimately undergrounding utility systems. Our expertise in trenchless technology allows us to identify the least invasive methods of design and construction—minimizing disruptions and avoiding unnecessary digging.

Harris also helps clients find the funds for their undergrounding projects through Assessment Districts and utility company programs like PG&E Rule 20—which helps communities finance the conversion of traditional overhead electric utility lines to underground.



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## A Coordinated Approach

Given the volume and variety of utility providers involved in a design or construction project, careful utility coordination can make the difference between early and late delivery. Harris has mastered both the art and science of coordination with power, water, gas, phone, cable, and others to keep projects on track. The key: partnering closely with city and county municipalities and service providers every step of the way.



### **Caltrain Electrification – Design/Build**

#### **Caltrain**

**Santa Clara, CA**

The Caltrain Modernization Program, scheduled to be implemented by 2020-2021, will electrify and upgrade the performance operating efficiency, capacity, safety, and reliability of Caltrain's commuter rail service. As a subcontractor to PGH Wong, Harris' scope of work includes: Preparation of existing utility base mapping (wet and dry); identification of Joint Power Board versus non-Joint Power Board utilities; the review of existing as-builts, record drawings, maps, and survey data; resolution of utility conflicts; verification of where there are utility conflicts with proposed Electrification Improvements; identifying High-Risk Facilities; and limiting utility transverse crossings (non-JPB utilities out of Caltrains ROW).

### **Silicon Valley Power Program Management and Construction Management Services**

**City of Santa Clara**

**Santa Clara, CA**

Harris has been providing program, project, and construction management services to Silicon Valley Power (SVP) for more than nine years across numerous substation and transmission projects. Services included third-party construction oversight, SWPPP development, and various civil design and engineering services.

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