

# The Silicon Valley Wire

The latest news from the electrical industry in Silicon Valley

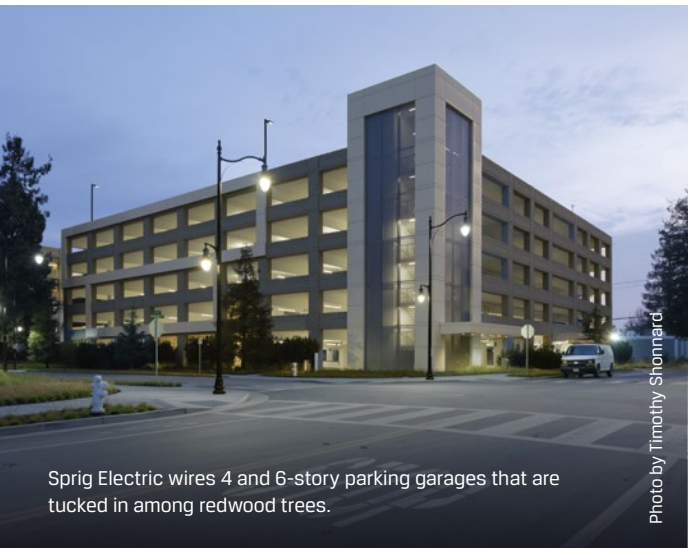
1st Quarter 2020

## Sprig Electric Wires New Pathline Park Office Development

Sprig Electric is wiring 11 office buildings and is installing lighting for the 42-acre Irvine Company project at Pathline Park.

Photo by Timothy Shonnard

The Sunnyvale project, developed by the Irvine Company, covers 42 acres and 17 buildings.



Sprig Electric wires 4 and 6-story parking garages that are tucked in among redwood trees.

Photo by Timothy Shonnard

Sprig Electric is completing core and shell work for over 1.3 million square feet of office space at Pathline Park, the Irvine Company's new 42-acre development in Sunnyvale. Sprig's work includes core and shell wiring for 11 office buildings, 4 garages and two amenity buildings that feature numerous food and beverage options. Sprig Electric will also be completing Tenant Improvement work for some of the tenants.

Pathline Park is located near the intersection of North Mary Avenue and Almanor Avenue, nearly adjacent to 101 and state route 237. The nature-oriented business development encompasses a modern tech hub that can offer workers a new way to collaborate.

Pathline Park refers to a wide, landscaped path that connects the whole development and features outdoor seating areas and a host of mature redwood and olive trees. The

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Sprig Electric's core and shell work on the 11 office buildings is in various stages of construction.

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CH Reynolds Powers Up Exhibits At Computer History Museum

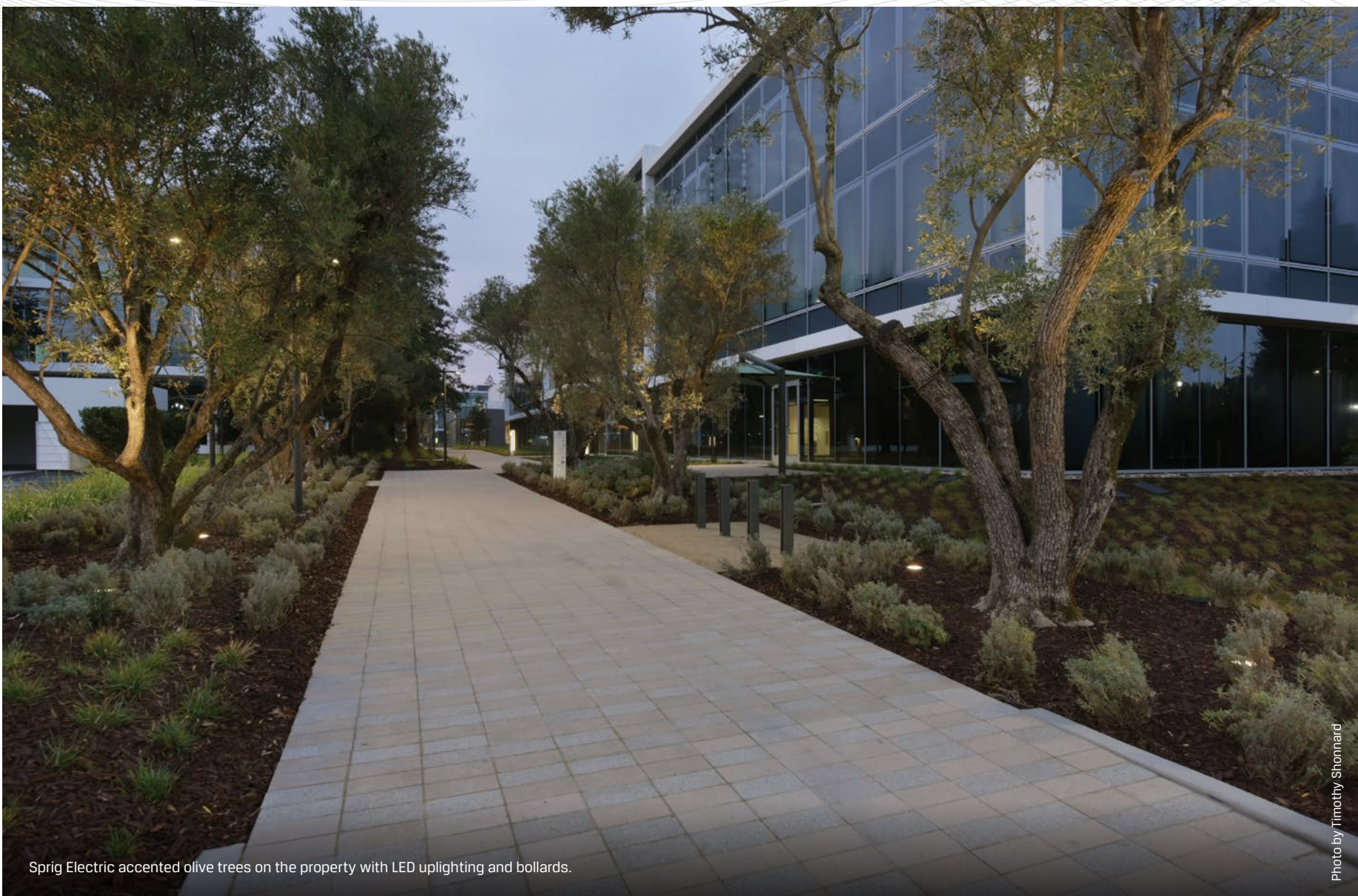
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Each of the two amenity buildings on the Pathline Park property will provide a collaborative environment with a café and cafeteria.

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Sprig Electric accented olive trees on the property with LED uplighting and bollards.

Photo by Timothy Shonnard

# Sprig Electric Wires New Pathline Park Office Development

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development features beautiful glassed buildings with etched architecture that offers large open spaces and tall rooflines, surrounded by trees, foliage, and concrete paver pathways.

Sprig Electric's \$30 million plus project also includes wiring all the site lighting on the campus, and running raceways for much of the telecommunications work, including DAS, Wi-Fi, AV, fire alarm and security. Sprig Electric began the project in 2017 by setting up temporary power. The core and shell phase of the project is expected to be completed later this year.

Each building's electrical service

comes through the underground utility lines brought to the site by PG&E. The underground conduit infrastructure extends to pad-mounted PG&E transformers located on site adjacent to each building. The cable is then pulled from the pad-mounted transformer to the main switchboard.

## CORE AND SHELL

Sprig Electric's core and shell work on the 11 office buildings is in various stages of construction. To initiate the core and shell wiring, Sprig Electric brought in the electrical service from the main electrical room/main

switchboard located in each building. Electrical service to each building is either 2000 amps or 3000 amps.

Sprig Electric then distributed the electrical service from the main electrical room to the tenant electric rooms, via a busway that runs vertically into each electrical room. Panels in these rooms feed the tenant spaces. There are 3 tenant electrical rooms in each building.

On the upper level of the building a mechanical feed distributes power to the mechanical units up on the roof. Some 60 electricians from the International Brotherhood of Electrical



Power is brought in by Sprig Electric at either 2000 or 3000 amps through the main electric room and distributed to 3 tenant electrical rooms in each office.

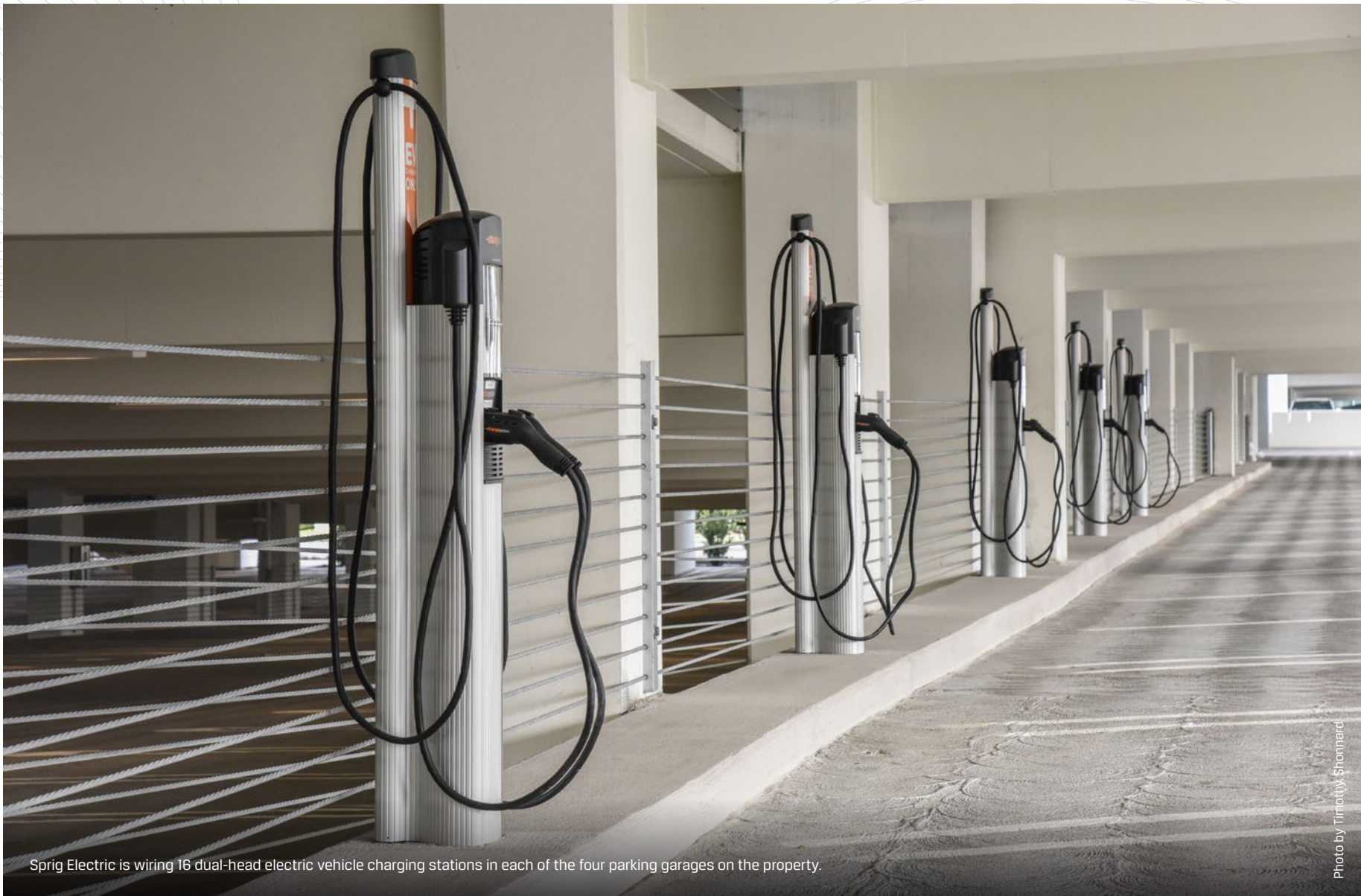
Photo by Timothy Shonnard



Sprig Electric installed LED lighting throughout the campus.

Photo by Timothy Shonnard





Sprig Electric is wiring 16 dual-head electric vehicle charging stations in each of the four parking garages on the property.

Photo by Timothy Shonhard

Workers (IBEW) Local 32 in San Jose worked with Sprig Electric on the project. Brad Foster served as the Group Executive for Sprig Electric and Albert Aviso is the project manager.

### TELECOMMUNICATIONS RACEWAYS

In order to complete raceways for the telecommunications work, Sprig Electric wired a telecommunications room on each of the upper floors of each office building (floors 2 and up). A four-inch conduit runs through the floors to connect the stacked telecommunications rooms to each other. Each building also has a telecommunications room on the main floor. Sprig Electric ran the raceways for the telecommunications wiring, including fire alarm, security, DAS and Wifi.

### PARKING GARAGE CHARGING STATIONS

In each of the four garages Sprig Electric wired 16 dual head electrical vehicle charging stations, providing an option to charge up to 32 cars. Sprig Electric also ran raceways on the same garage floors, so that more chargers can be installed in the future. In addition, the outside parking lots have an additional 10 electrical vehicle charging stations.

### PARKING GARAGE CORE AND SHELL

Sprig Electric is also completing the core and shell work for each of the garages. The feeders come from the main electric room inside the garage. Sprig Electric runs conduits out of the electrical room up the columns to the

### SPRIG ELECTRIC TEAM LIST PATHLINE PARK

- CLIENT:**  
The Irvine Company  
Basil Anber, Project Manager
- GENERAL CONTRACTOR:**  
Devcon Construction  
Tony Taromino, Project Manager  
Tony Vitale, Site Manager
- ELECTRICAL CONTRACTOR:**  
Sprig Electric, San Jose  
Brad Foster, Group Executive  
Albert Aviso, Project Manager  
Alex Velasquez, Project Engineer  
Erik Beckmen, Superintendent  
Jose Recio, Site Superintendent  
Scott Tomlin, Foreman  
Chris Furtado, Garage Foreman  
Brian Ordner, Garage Foreman  
AJ Ramirez, Executive Business Administrator
- ELECTRICIANS:**  
60 electricians from the International Brotherhood of Electrical Workers (IBEW) Local 332

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Sprig Electric ran busways vertically between floors to feed power to the tenant electrical rooms.

Photo by Timothy Shonhard



Key members of the Sprig Electric team for Pathline Park (from left to right) Foreman Scott Tomlin; Superintendent Erik Beckmen; Garage Foreman Chris Furtado; Site Superintendent Jose Recio; Garage Foreman Brian Ordner

Photo by Timothy Shonhard





CH Reynolds programmed the lighting in preset zones that can work together or can be programmed to work independently.

Photo by Timothy Shonhard

# CH Reynolds Powers Up Exhibits And Lighting At The Computer History Museum

**Electrical contractor CH Reynolds installed 25 different lighting configurations in the exhibit displays, as well as lighting for the patio and museum entrance**

The lighting CH Reynolds completed at The Computer History Museum makes walking up to the building's main entrance a dynamic experience—more like being on a dance floor than visiting a museum.

CH Reynolds installed kinetic, strobe-effect LED lighting under an overhead canopy leading to the Museum's lobby. As you approach the front

door, the lights under the canopy change colors from blue and red to yellow and green, giving you a lively introduction to the building.

The computer history museum is dedicated to preserving and presenting the stories and artifacts of the information age, and exploring the computing revolution and its impact on society. It is home to the



CH Reynolds provided a comprehensive design build portfolio of electrical, data construction, and energy management services for the Computer History Museum.

Photo by Timothy Shonhard





CH Reynolds installed kinetic strobe-effect LED lighting under the canopy leading into the museum's lobby.

Photo by Timothy Shonnard

largest international collection of computing artifacts in the world.

The Mountain View Museum tapped CH Reynolds to install LED lighting throughout the building, including the patio. CH Reynolds also built out the electrical infrastructure in the Museum's new wing, The Learning Center.

CH Reynolds, a NECA-IBEW contractor, began the project in 2016 and provided a comprehensive design build portfolio of electrical, data construction, and energy management services. CH Reynolds worked with 7 electricians and 7 technicians from the International Brotherhood of Electrical Workers

Local 332 in San Jose. The electrical construction budget was \$500,000 and the data budget was \$100,000.

In the new modular Learning Center, CH Reynolds installed power in the floor to light up the innovative exhibits, where kids and learners of all ages can discover more about technology. Interactive elements are featured prominently throughout the center, offering further opportunities for discovery.

One of the exhibits displays musical experimentation by the band Devo, showcasing 200 birdcalls the band created that can be controlled by

computer. Other exhibits feature deconstructed computers, allowing kids and adults to view components of the technology. Some exhibits show how computer coding works and other exhibits show how portable music has evolved from tape recorders and Walkmans to MP3 players. Another exhibit offers profiles and bios of technology industry leaders.

In all, CH Reynolds installed 25 different lighting configurations in the exhibit displays and surrounding areas. This includes lighting in the entry; lighting for the stairs going to the top of the stage; lighting of displays

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CH Reynolds installed lighting to showcase icons of technology in the Learning Center.

Photo by Timothy Shonnard



CH Reynolds wires lighting to illuminate how portable music has evolved over the decades in an exhibit in the Learning Center.

Photo by Timothy Shonnard





CH Reynolds wired several 10-foot light poles with LED down lights on the outside patio.

Photo by Timothy Shonnard

## CH Reynolds Powers Up Exhibits And Lighting At The Computer History Museum

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built into the base of the stage, and lighting of clouds in the ceiling.

The lighting, which is controlled in a nearby electrical closet, is programmed in preset zones that can work together or can be programmed to work independently. CH Reynolds utilizes the Cyber Switching PM8 power management device to remotely control specific lighting zones. The lighting control system controls the learning center, the loading dock, the outdoor lighting, the patio, and a good portion of the entire museum. All the lighting is wireless, with programmable wireless power packs,

one allotted for each zone so the lighting can be controlled individually.

CH Reynolds added several 10-foot light poles with LED down lights to the outside patio area (which is in back of the café). The patio lights are also monitored in-house, and are managed on the local network. The new lighting on the patio provides an expanded space for outdoor events in the evening.

CH Reynolds also installed network cabling throughout the learning center and the second floor, where the offices and meeting rooms are located. The cabling includes eight new data lines for security cameras.

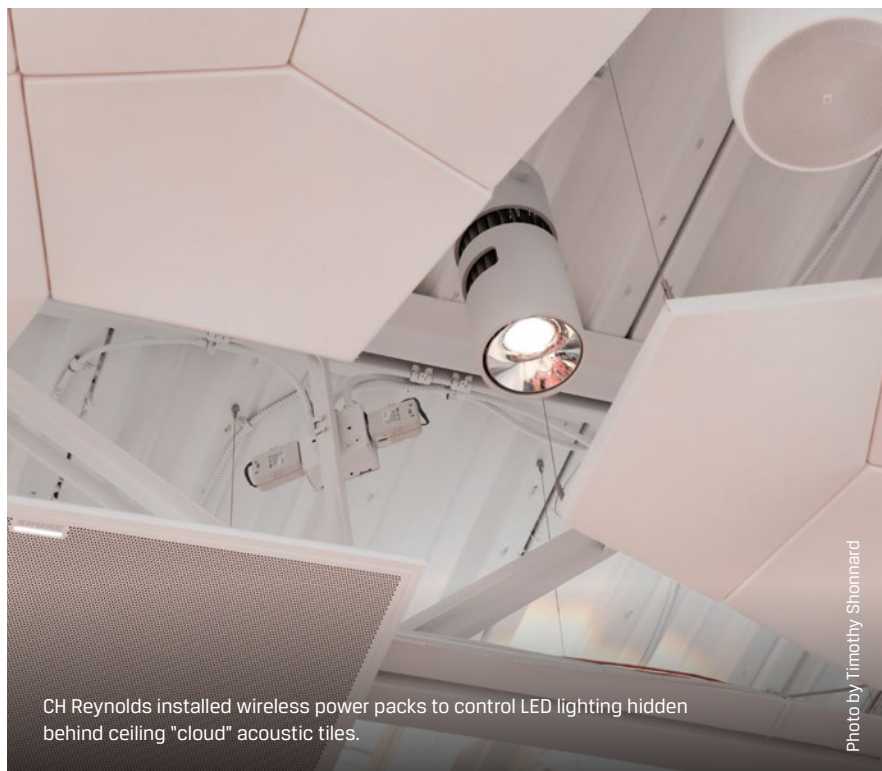
The main challenge for the job was working around the museum's customers as well as events. "There were always a lot of people coming and going," said Mark Hiura, CH Reynolds Project Manager for the Electrical Division. "But we are proud to have had a role in enabling people to understand technology's ongoing role in transforming our world."

**For more information about CH Reynolds and its services, contact Patty DiNapoli, Manager of Marketing and Business Development, 408.217.2172 or [pattyd@chreynolds.com](mailto:pattyd@chreynolds.com).**



CH Reynolds installed 25 different lighting configurations in the exhibit areas in the Learning Center.

Photo by Timothy Shonnard



CH Reynolds installed wireless power packs to control LED lighting hidden behind ceiling "cloud" acoustic tiles.

Photo by Timothy Shonnard





Project Manager Danielle Catangay shows how CH Reynolds pulled cabling overhead, after construction was complete.

Photo by Timothy Shonnard

### CH REYNOLDS ELECTRIC, INC. TEAM LIST THE COMPUTER HISTORY MUSEUM

**CLIENT:**  
The Computer History Museum, Mountain View  
Gary Matsushita, Electrical and  
Data Project Manager  
Jennifer Alexander, Energy Management/  
Cyber Switching Project Manager

**GENERAL CONTRACTOR:**  
MAI Construction

**DATA INSTALLATION CONTRACTOR:**  
CH Reynolds, San Jose  
John Jacobo, Project Manager, Data Division

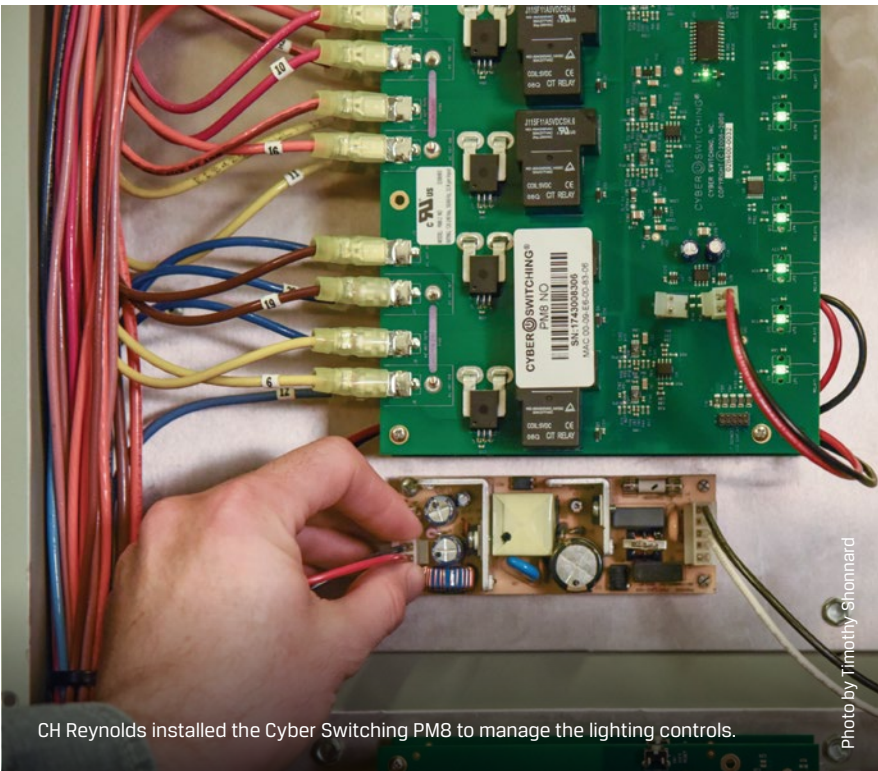
**ELECTRICAL CONTRACTOR:**  
CH Reynolds Electric, Inc., San Jose  
Mark Hiura, Project Manager, Electrical Division  
Phil Todd, Superintendent, Electrical Division  
Bob Campbell, General Foreman  
Danielle Catangay, Project  
Manager, Electrical Division  
Patty DiNapoli, Marketing Manager

**CYBER SWITCHING/ENERGY MANAGEMENT  
CONTRACTOR:**  
Cyber Switching, San Jose  
Ron Silorio, CTO



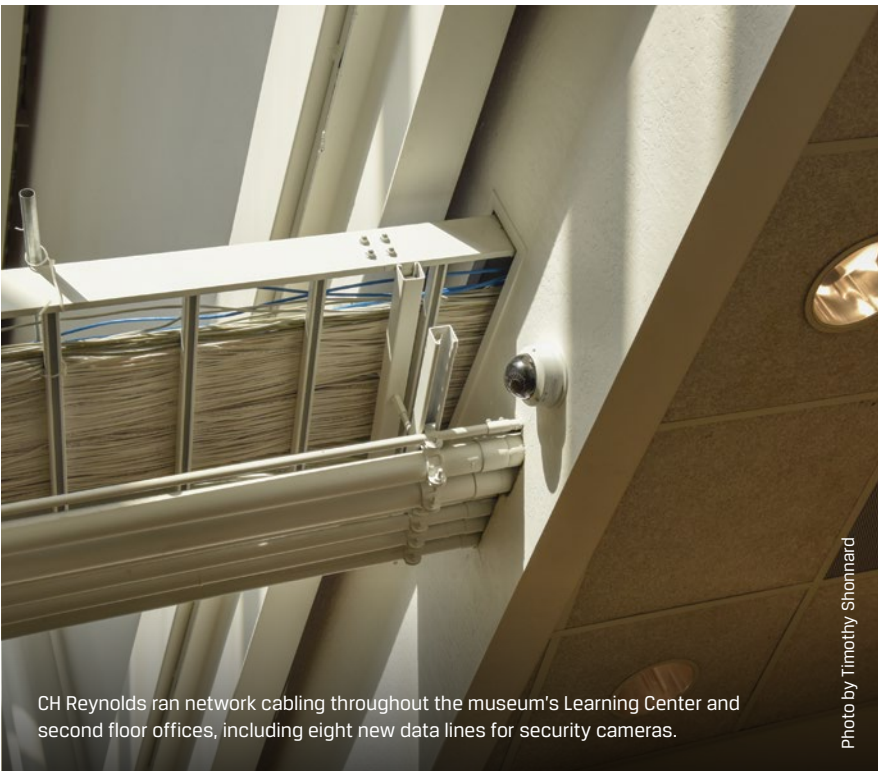
Key members of the CH Reynolds team: Marketing Manager Patty DiNapoli; Project Manager, Electrical Division Mark Hiura; Project Manager, Data Division John Jacobo; Energy Management Contractor Ron Silorio; Project Manager, Electrical Division, Danielle Catangay

Photo by Timothy Shonnard



CH Reynolds installed the Cyber Switching PM8 to manage the lighting controls.

Photo by Timothy Shonnard



CH Reynolds ran network cabling throughout the museum's Learning Center and second floor offices, including eight new data lines for security cameras.

Photo by Timothy Shonnard





Sprig Electric is wiring LED lighting to accent the sophisticated landscaping for the eleven office buildings at Pathline Park.

Photo by Timothy Shonnard

# Sprig Electric Wires New Pathline Park Office Development

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next floor and up four or six stories (two of the garages are six stories and two of them are four stories). The distribution in the garage continues to the deck pours, for lighting, electrical vehicle chargers, cameras, fire alarm, DAS, etc.

## LED LIGHTING ON PATH

Sprig Electric completed site lighting throughout the 42-acre site, including installing 5 or 6 different varieties of LED lighting such as pole lights, small bollards, accent lighting for trees, entry lighting and irrigation controllers.

## AMENITY BUILDINGS

Sprig Electric is wiring the two amenity buildings, (one is complete). These buildings include a café and coffee shop, with one of them featuring a fitness center.

## CHALLENGES

Sprig Electric said its challenges for the project included the tight schedule, and the weather, which was extremely rainy in 2018.

**For more information about Sprig Electric and its services, contact AJ Ramirez, Executive Business Administrator, 669.230.4481 or [aramirez@sprigelectric.com](mailto:aramirez@sprigelectric.com).**



Sprig Electric runs conduits slab-on-grade in the parking garage decks and up through columns before the cement is poured.

Photo by Timothy Shonnard