

# ZO15 FOURTH QUARTER

LATEST SOUND & COMMUNICATIONS TECHNOLOGY NEWS

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Sprig Electric Wires New Avaya Stadium



A View Of The New Avaya Stadium From The Sky



State-Of-The-Art Northern California Sound and Communication Technology Training Center







A publication of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) of Northern California.



## San Jose Earthquakes Select Sprig Electric To Connect High-Tech Systems For New Avaya Stadium

prig Electric's work at the new Avaya Stadium in San Jose brings state-of-the-art technology systems to the San Jose Earthquakes and their world-class soccer facility.

In addition to completing the \$7.5 million electrical

infrastructure build-out for the stadium, Sprig Electric's Data Division provided low voltage services for the facility, including wiring the Wi-Fi system, fire alarm system, lighting control system, and fiber optic transmission system.

Sprig Electric installed the structured cabling for the stadium's low voltage systems via the cable trays that line the interior of the stadium and act

as the main pathway for low voltage cable distribution.

Sprig Electric also installed the duct structure for wiring into the stadium's data center and supplied

the cable infrastructure for broadcasting into the sky box. (See center spread aerial view)

The 18,000-seat facility is located on Coleman Avenue across from the San José International Airport. The \$60 million Avaya Stadium is a two-story structure that is 75 feet tall

and has seating going up about 60 feet high. A European roof design covers all stands to hold in sound and build atmosphere. The Stadium is designed by 360-CA Schrock Architects to meet Major League Soccer (MLS) standards.

The stadium includes 12 luxury suites and 576 club seats on the field level, as well as a sky box built for

broadcasting. Sprig also wired the team's adjacent 24,000 square foot two-story office building, installing all of the Network CAT6 cable for the wireless access point cabling in the offices, as well as the cable for the fire alarm.



Sprig Electric Senior Project Manager Ron Piovesan led the Wi-Fi and data communications build-out of the new Avaya Stadium.

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Sprig Electric provided low voltage services including wiring the Wi-Fi system, fire alarm system, and lighting control system.

# San Jose Earthquakes Select Sprig Electric To Connect High-Tech Systems For New Avaya Stadium

Led by Senior Project Manager Ron Piovesan and Low Voltage Manager Darrin Allison, Sprig Electric provided the cable infrastructure for the Wi-Fi system around the concourse levels, allowing fans to connect through a smart device into the Internet.

Fans can use their smart device to access the Avaya Stadium app, which allows them paperless entry to the stadium, lists the various parking lots for the stadium, and provides directions to the site from any point. It also allows them to

contact guest services directly, and offers answers to commonly asked questions. The app also lists the amenities within the stadium on a map.

"This is a big league ballpark," said Piovesan.
"We are really excited to be a part of it."

Sprig Electric connected the network structured cabling system at the stadium's Data Center, and also provided the center's network racks and wire management. Sprig Electric then connected the network cable in the data center to multiple

station locations, including computers, wireless access points, and any other IP enabled devices. A fiber optic cable runs from the Data Center to each of the five intermediate distribution frame (IDF) locations in the stadium. A fiber optic cable also runs from the Data Center to each of the IDF locations in the team building.

Sprig Electric's technicians from the International Brotherhood of Electrical Workers (IBEW) Local 332 in San Jose completed the data division cabling and installed the lighting control

### Avaya Stadium Sprig Electric Data Division Services:

- CAT6 Structured Cabling Throughout Stadium
- Fiber Optic Transmission Wiring
- Copper Backbone Cabling To IDF's
- Data Center Duct Structured Cabling + CAT6 Cabling
- Wi-Fi System
- Fire Alarm System
- Lighting Control System
- Skybox Broadcasting System
- Security Surveillance Camera System CAT6 Cabling
- Emergency Two-Way Communication System
- Cabling For Point-Of-Sale System



Sprig Electric installed the lighting control system for the playing field.



Sprig Electric wired the CAT6 cabling for the security surveillance camera system.





Sprig Electric completed all cabling for point-of-sale system used for concessions and retail.

system for both the interior and exterior public spaces in the stadium. The control panel for the lighting control system is located in the electric rooms. The lighting control functions as an on/off system for the concourse and upper concourse areas and parking lot and has both local and remote control capabilities.

Sprig Electric installed the lighting control system for the playing field, which was custom designed by Musco Sports Lighting, LLC. and offers remote on/off capabilities. The team's two-story office building has individual Watt Stopper room controls. Each room control has

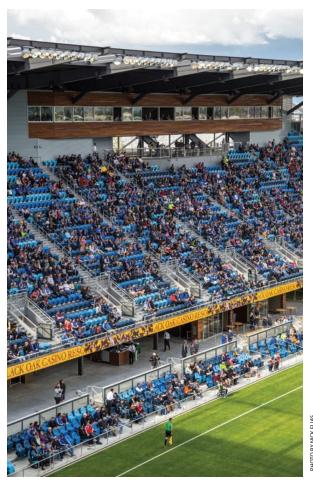
a motion sensor as well as daylight sensor controls in order to meet Title 24 requirements.

Sprig Electric installed a Notifier NFS2-3030 fire alarm system with digital audio evacuation capabilities for the stadium. The fire alarm control panel is located in the fire control room, which is housed in the Earthquake's office building.

For more information about Sprig Electric and its Data Division services, contact AJ Ramirez, Marketing Coordinator (aramirez@sprigelectric.com) or call (408) 298-3134, ext. 3030.



Included in the Avaya Stadium project was cabling the team's 24,000 square foot two-story office building, which is built on the west side of the stadium.



Sprig Electric's wired the skybox for broadcasting.

### Sprig Electric Data Communications Division Team List Avaya Stadium:

### OWNER:

San Jose Earthquakes, LLC.

### ARCHITECT:

360-CA Schrock Architects, P.C.

### GENERAL CONTRACTOR:

Devcon Construction Inc.

### **ELECTRICAL CONTRACTOR:**

Sprig Electric in a Joint Venture With ERMCO, Inc. Ron Piovesan, Senior Project Manager

### DATA AND COMMUNICATIONS CONTRACTOR:

Sprig Electric Data Division Darrin Allison, RCDD, Structured Cable Project Manager

### SPRIG ELECTRIC DATA COMMUNICATIONS MANAGEMENT TEAM:

Darrin Allison, RCDD, Structured Cable Project Manager; Jerome Wingo, Structured Cable Foreman; Tom Green, Fire Alarm Project Manager; Rick Nolen, Fire Alarm Foreman

### SPRIG ELECTRIC MANAGEMENT TEAM:

Mike Glogovac, Vice President; Ron Piovesan, Senior Project Manager; Dan Lira, General Foreman; Sean Lockard, Foreman

## TECHNICIAN INSTALLERS FROM INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW) LOCAL 332, SAN JOSE:

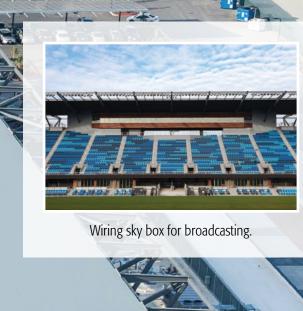
Jerome Wingo, Foreman; Armando Vega, Foreman

### LIGHTING CONTRACTOR:

Musco Sports Lighting, LLC. Mark Flesner, Senior Project Manager

# Sprig Electric's Data Division Brings Wi-Fi & Installation of lighting control system. CAT6 Structured Cabling throughout stadium Installation of duct structure for wiring throughout stadium. Two-Design and installation of fire alarm system. **FAST FACTS ABOUT AVAYA STADIUM:** • 18,000 seats on a 74-acre site Two-story stadium, 75 feet high Wi-Fi System Wiring throughout • \$60 million construction cost concourse. • 12 luxury suites and 576 club seats • Sky box for broadcasting • Built to LEED Silver specifications Designed to meet Major League Soccer (MLS) standards Largest bar in North America (310 feet long) Cabling for poin

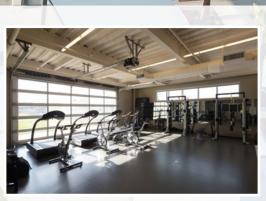
# High Tech Improvements To Avaya Stadium Fiber optic cabling Data center cabling to IDFs Security surveillance camera system CAT6 cabling





nication

t-of-sale system





Wiring of the team's adjacent 24,000 square foot two-story office building, installing all of the CAT6 cable for the building network and wireless access points, as well as the cable for fire alarm system.



## A new state-of-the-art training facility, recently opened in the East Bay, offers the equivalent of an Ivy League education for those in the electrical industry who are Sound and Communication Apprentices.

The newly renovated Northern California Sound and Communication Technology Training Center, headquartered in San Leandro, provides Northern California Sound and Communication members with a cutting-edge technology education.

The IBEW/NECA training center is overseen by a board of directors comprised of representatives from IBEW Locals in the Bay area, as well as Bay Area electrical contractors who are signatories to the National Electrical Contractors Association (NECA) and International Brotherhood

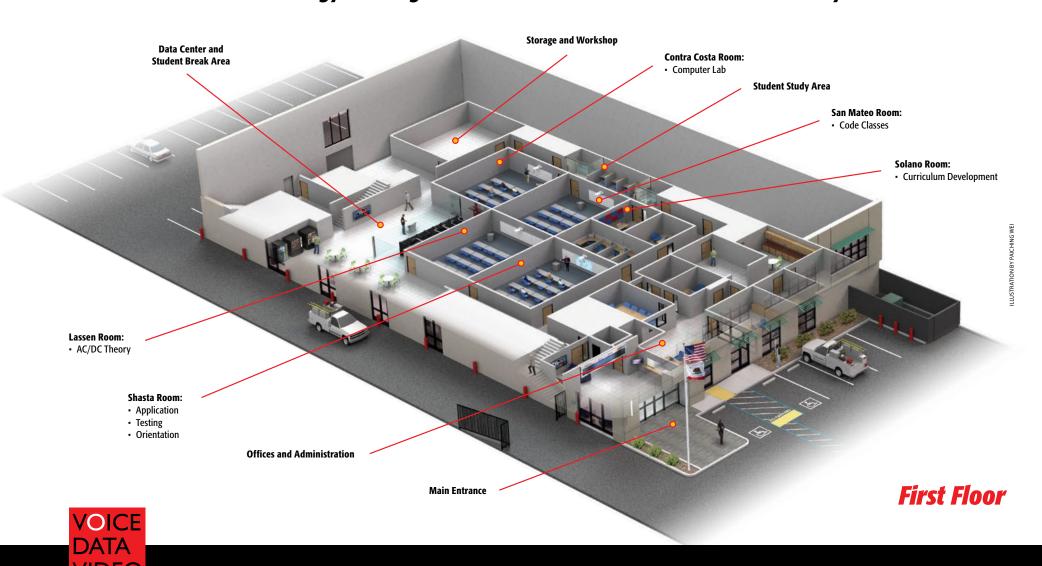
SOUND AND COMMUNICATIONS of Electrical Workers (IBEW) sound and communication agreement. The NECA/IBEW funded program is directed by the Northern California Sound and Communication Joint Apprenticeship and Training Committee (JATC).

"We are pleased to be able to offer a training center of this quality and scope," said Ken Miller, Training Director for the Center. "Our Trustees have been extremely supportive of our efforts to provide a center that has become a national model."

Over 2,000 Apprentices and Installer-Technicians have access to classes there and online, learning the latest technologies in the fast-growing and rapidly evolving Sound and Communication field. The curriculum covers such disciplines as audio video, fire and life safety systems, access control systems, distributed antenna systems (DAS), wireless systems, and structured cabling.

The Sound and Communication Technology Training Center offers a centralized state of the art learning environment that utilizes the latest

### First Floor Of The Technology Training Center Includes Classrooms, Data Center, Study Areas, & Offices





Labs at the new training center include enhanced hands-on training covering all aspects of low-voltage systems theory and installation.

technology and real world hands-on labs.

study spaces. It provides multiple labs for

enhanced hands-on training, including labs

card access; audio video; structured cabling;

telephone; public address; CATV; master

for electrical theory; fire alarm; security; CCTV;

clocks; mass notification; nurse call; relay logic;

literacy. An area has also been constructed to

serve as a fully functional wire pulling lab.

All of the classrooms are built with the most

distributed antenna systems (DAS); and computer

The new building features a number of "smart"

classrooms, meeting rooms, and collaborative

current technology, including room occupancy sensors, room control systems, and interactive white boards. A projector and ceiling speakers are in each room to aid in lecture presentations.

The first floor contains a workshop, computer lab, curriculum development lab for online learning, and a study area. The second floor, which houses most of the vocational labs, also features a Boardroom and Meeting room.

The first floor Data Center, which showcases seven networked equipment racks that can be observed through a floor-to-ceiling glass surround, also offers students the option of



Classrooms contain an interactive white board and projector



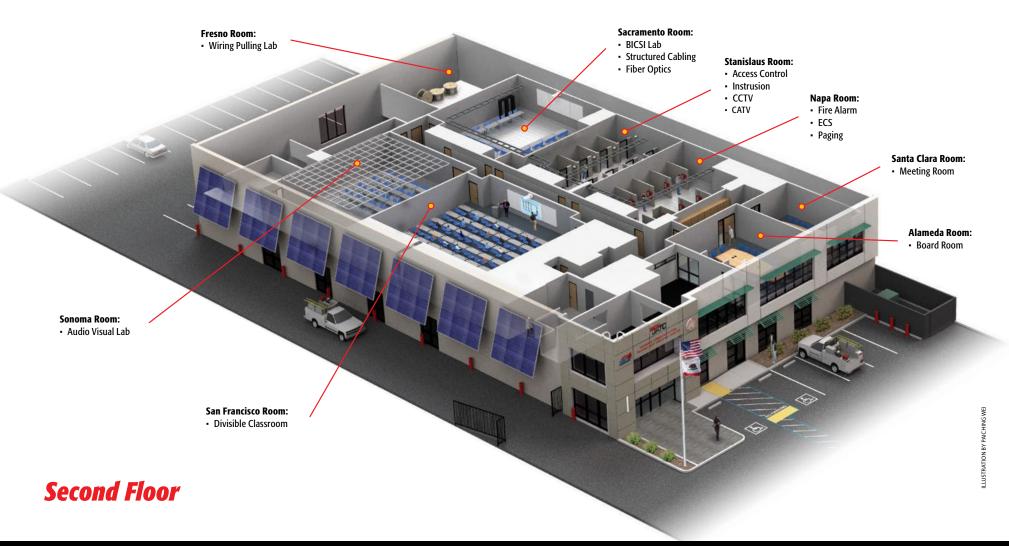
Data Center and Student Break Area

learning about the function of each equipment rack by using an interactive touch screen.

The new facility is fully Title 24 compliant and includes a number of sustainable elements such as solar tubes, skylights, LED lighting, TPO roof topping, window glazing, electric vehicle charging stations, and drought-resistant landscaping. A voluntary seismic upgrade was also performed during construction.

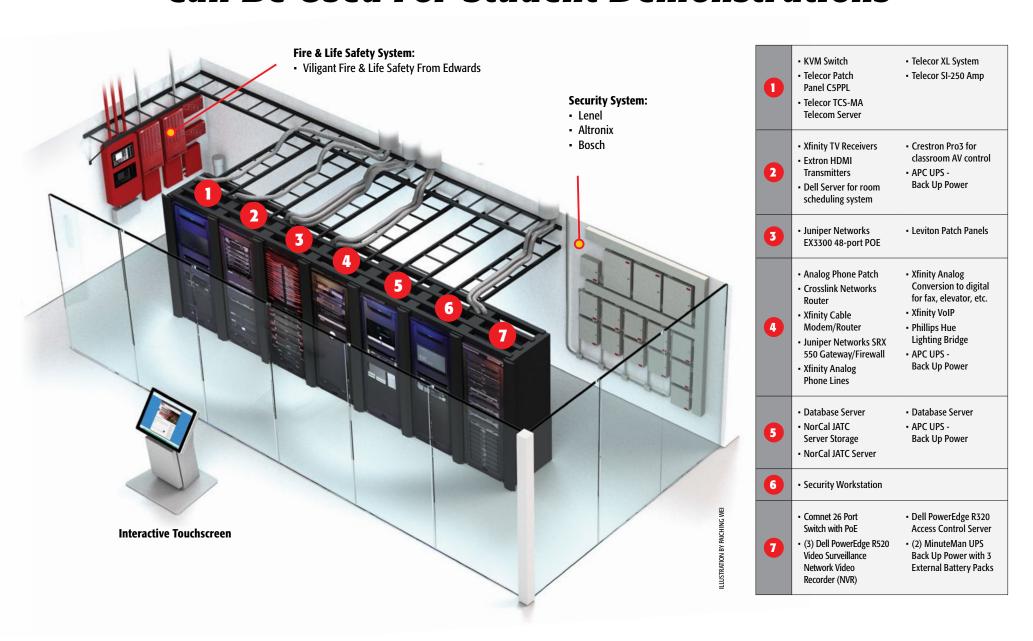
For more information about the new training center, contact Norcal S&C JATC at 510.560.2032 or go to www.norcal-jatc.com.

### Second Floor Of The Technology Training Center Includes Labs, Divisible Classroom & Boardroom





# The Data Center, The Nerve Center For The New JATC, Can Be Used For Student Demonstrations



To see more photos of the new Northern California Sound & Communication Technology Training Center, please visit: www.Facebook.com/NorCalVDV

Northern
California
Sound &
Communication
Technology
Training Center
Project Team

#### NORCAL S&C JATC, BOARD OF DIRECTORS

Gerald Pfeiffer, Trustee Dan Chivello, Trustee Scott Stephan, Trustee Jack Buckhorn, Trustee Doug Lung, Trustee Greg Armstrong, Trustee Tom Coleman, Trustee Pat McMurray, Trustee

### **NORCAL S&C JATC, STAFF**

Ken Miller, Training Director Terry Monroe, Assistant Training Director Michael Sheriff, Special Projects Coordinator

### ARCHITECT

Kobza & Associates

### **GENERAL CONTRACTOR**

SC Builders

### **AV INTEGRATION**

Integrated Communication Systems (ICS)

### **VOICE/DATA**

McMillan Data Communications

### SECURITY/ACCESS CONTROL

Netronix Integration

### **ELECTRICAL/LIGHTING**

Red Top Electric

### **FIRE ALARM**

Red Top Electric
Point One Electrical Systems

Union Contractors (IBEW/NECA) in Sound & Communications combine a skilled and trained work force with world class technology. For the best installations in voice/data/cabling, network systems, data center facilities, audio/video systems, sound systems, fiber optics, wireless, security systems, fire/life safety systems and CATV, call a union contractor or visit www.norcalvdv.org.

