

The Ryan Company, Inc.

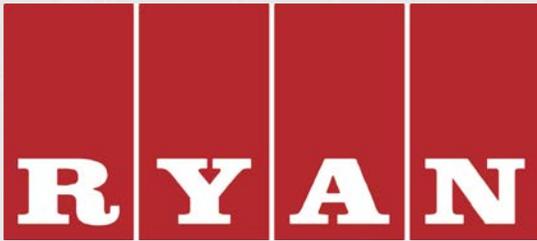
A  QUANTA SERVICES COMPANY

MEDIUM VOLTAGE

.....Experience



Contact Us
508-742-2500
ryancompany.net



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Case Study:

Electrical Infrastructure Upgrade Project at California State University- Fresno

Project Overview:

- Construction of new 12 kV switchgear building including switchgear, cable units, incoming PG&E service conduits, manhole and interrupter switch, 12 kV loop feeder distribution control system and campus power monitoring system
- 12 kV loop feeder distribution system comprised of four feeder loops as follows:
 - Feeder Loop 1- feeds 26 facilities on West side of campus
 - Feeder Loop 2- feeds 17 facilities in the Central/South sides of the campus
 - Feeder Loop 3- feeds 24 facilities on the North/East sides of the campus
 - Feeder Loop 4- feeds Central Plant and the new switchgear building on the North side of campus
- Building incoming low-voltage service feeders, switchboards and power meters, including connecting the power meters to the local building, intermediate distribution frame for connection to the new campus power monitoring system
- Underground PG&E infrastructure between Cedar and Chestnut Avenues located on the North side of Barstow Avenue as part of the PG&E Rule 20 design project to underground the existing overhead 12 kV pole as part of a street widening project to add a bicycle lane in the future
- The design includes equipment pads on grade for transformers and capacitors

KEY POINTS

Substation Projects- Selected Experience:

- Electrical Infrastructure Upgrade Project at California State University- Fresno
- Constructed new 12 kV switchgear building
- Start Date- January 2015
- Completion Date- September 2016
- Constructed eight backup power generation systems.

The Ryan Company, Inc. - Substation Projects

Project Name- Location	System Size	Date Completed
East Mansfield Substation, Mansfield, MA	115Kv/13.8kV	Jan-12
Denton Lovell Substation Upgrade, West Boylston, MA	115Kv/13.8kV	Aug-17
Port of Long Beach, Long Beach, CA	25 kV/6.6 kV	Dec-14
North Substation Equipment Replacement at the Ronald Reagan International Airport	34.5kV	Feb-14
White River Substation, Fresno, CA	115Kv/34.5kV	Aug-14
Delmont Substation, Greensburg, PA	115Kv/34.5kV	Sep-14
Centech Substation, Shrewsbury, MA	115Kv/13.8kV	Oct-14
Avalon I, Sahuarita, AZ	46Kv/34.5kV	Nov-14
Port of Long Beach, Long Beach, CA	25 kV/6.6kV	Dec-14
Corcoran II, Corcoran, CA	115Kv/34.5kV	Apr-15
Atwell 2 Substation, CA	115Kv/34.5kV	Aug-15
Corcoran III, Corcoran, CA	115Kv/34.5kV	Oct-15
Oasis Substation, Palmdale, CA	66Kv/34.5Kv	Nov-15
Avalon II, Sahuarita, AZ	46Kv/34.5kV	Nov-15
Wallace Substation, Wakefield, MA	115Kv/13.8kV	Jan-16
CSU Fresno, Fresno, CA	12kV	Sep-16
Decatur Parkway Solar, Bainbridge, GA	115Kv/34.5kV	Oct-16

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