BD ELECTRICAL & SOLAR

COMMERCIAL ELECTRICAL SERVICE UPGRADE

1200A Service Upgrade for School Solar Canopy Interconnection

Project Highlights:

- 1200A service entrance upgrade
- Utility CT cabinet installation
- Commercial PV interconnection
- Secondary conductor rerouting
- Service disconnect installation
- Elementary school electrical infrastructure
- Commercial solar canopy support

Scope:

- Installation of new 1200A service disconnect
- Installation of new utility CT cabinet
- Installation of new service splice cabinet
- Installation of dedicated 1200A PV service disconnect
- Installation of dedicated PV CT cabinet
- Utility secondary conductor modifications
- Service entrance conduit installation
- Utility coordination and commissioning

Project Overview

BD Electrical completed a major electrical service upgrade at an elementary school to support the installation of a new commercial solar canopy system. The project involved installing new utility service equipment, intercepting the existing secondary service conductors, and reconfiguring the electrical distribution to accommodate the photovoltaic (PV) interconnection.

The completed installation provides a code-compliant service entrance that supports both the existing electrical infrastructure and the new commercial solar generation system.

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The Challenge

The existing service entrance was not configured to accommodate the new commercial photovoltaic canopy system.

To integrate the new solar generation equipment, the utility secondary conductors feeding the building's main switchgear had to be intercepted and rerouted through newly installed service equipment while maintaining compliance with utility and National Electrical Code requirements. The work required detailed coordination between the utility company, solar contractor, and school administration to safely modify the facility's primary electrical infrastructure.

Our Solution

BD Electrical installed a complete service entrance upgrade consisting of:

- New 1200-amp utility service disconnect
- New utility CT cabinet
- New service splice cabinet
- Dedicated 1200-amp PV service disconnect
- Dedicated PV CT cabinet

Our team intercepted the existing secondary conductors supplying the building's main switchgear and rerouted them through the new service disconnect before reconnecting the existing distribution system.

This configuration provides a utility-approved interconnection point for the new solar canopy while maintaining reliable electrical service to the school.

Why Service Upgrades Matter

Large commercial solar projects frequently require modifications to a building's electrical service before interconnection can occur.

Properly designed service upgrades provide:

- Utility-compliant interconnection
- Improved electrical safety
- Code-compliant service disconnecting means
- Future electrical expansion capacity
- Simplified maintenance and service access
- Reliable long-term operation

Whether supporting renewable energy, facility expansion, or increased electrical demand, service entrance upgrades are often the foundation of a successful commercial electrical project.

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