

ST. MARK'S SCHOOL

Commercial Solar Installation

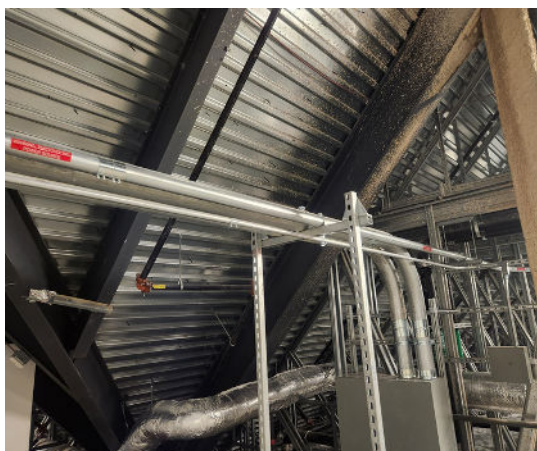


Client: St.Mark's School

Location: Southborough, Massachusetts

Scope:

- PV racking and attachment installation
- Solar module installation
- DC electrical installation
- Conduit and conductor installation
- Grounding and bonding
- Electrical equipment installation
- System wiring and terminations
- Testing and commissioning
- Coordination with Solect and other project trades



Project Overview

Solar Construction for a New Campus Facility

BD Electrical & Solar was selected by Solect Energy to complete the full solar installation for a new building at St. Mark's School in Southborough, Massachusetts.

The project required our team to work within an active new-construction site alongside multiple trades while maintaining an accelerated project schedule. The photovoltaic system spans several steep standing-seam metal roof sections, creating unique access, material-handling, and installation challenges.

Working on a New Standing-Seam Metal Roof

Protecting the newly installed metal roofing was a major consideration throughout construction.

The roof geometry and height required extensive use of aerial lifts for equipment, materials, and personnel. Lift positioning and operation had to be carefully planned to provide access to the different roof sections without contacting or damaging the finished roofing, building façade, or other newly completed work.

Racking layout also required a high level of precision to maintain consistent module alignment across the large, highly visible roof planes.



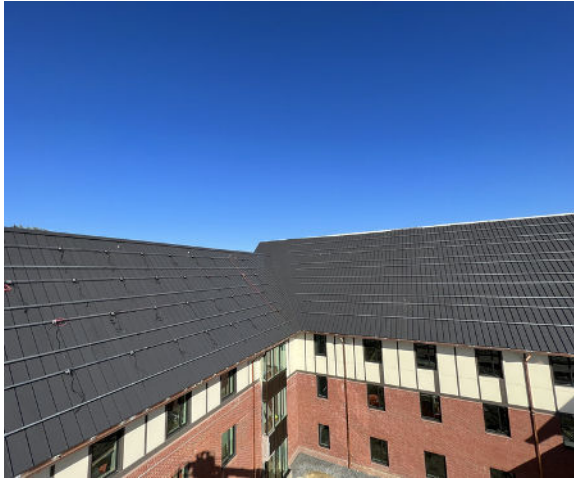
Coordination on an Active Construction Site

Solar construction took place while other portions of the building were still under construction. BD coordinated installation activities with the general contractor, Solect, and other trades working throughout the facility.

Electrical pathways had to be integrated into the developing building infrastructure, with conduit routing and equipment locations coordinated around structural steel, mechanical systems, fire protection, and other building services.

With an accelerated construction schedule, sequencing was critical. Our crews adjusted installation activities as areas became available while keeping the solar scope moving alongside the overall project schedule.





The Results

The finished system integrates a substantial solar array directly into the architecture of the new facility. The dark modules and racking complement the standing-seam roof while providing St. Mark's School with a significant on-site renewable energy resource.

The project demonstrates BD Electrical & Solar's ability to execute complex commercial and institutional solar installations where electrical expertise, construction coordination, access planning, and workmanship are equally important.

