

STONE ZOO

Solar Canopy Electrical Installation



Scope:

- Complete electrical installation
- Interior LED lighting
- Branch circuit wiring
- Electrical panel installation
- Dedicated laboratory receptacle circuits
- Equipment power connections
- Surface-mounted raceway installation
- Final testing and commissioning

Phased Construction Around Zoo Operations

The project occupied areas normally used for vehicle and pedestrian circulation. Rather than taking the entire work area offline, construction was completed in phases to maintain safe access throughout the facility. BD coordinated its work with Solect and zoo personnel so construction zones could be isolated while pedestrian and vehicle traffic was safely routed around active work areas.

Maintaining Critical Operations During Shutdown

A major component of the electrical scope was coordinating the facility shutdown required to complete the solar interconnection. Because Stone Zoo has critical electrical loads that needed to remain operational, BD planned and provided temporary power during the shutdown. This allowed essential zoo operations to continue while our electricians completed the required electrical work and brought the new solar infrastructure online.

Location: Stoneham, Massachusetts

Project Overview

TBD Electrical & Solar was selected by Solect Energy to perform the electrical installation for the solar canopy project at Stone Zoo in Stoneham, Massachusetts. Working within an active zoo presented challenges beyond the electrical installation itself. Construction had to be carefully phased around zoo operations while maintaining safe access for visitors, employees, vehicles, and ongoing animal-care activities.

Commercial Solar in Complex Operating Environments

The Stone Zoo project demonstrates the planning required when commercial solar is installed at an active facility.

Beyond completing the electrical installation, BD had to account for public safety, traffic management, phased construction, shutdown coordination, and continuity of critical electrical loads.

The result was a large-scale solar canopy installation completed while allowing Stone Zoo to continue operating throughout construction.