



Diocese of San Jose San Jose, CA

Structural Engineering



As the popularity of solar energy begins to grow, solar systems are becoming a necessity for large school districts such as the Arch Diocese of San Jose.

Mesiti-Miller Engineering (MME) provided structural engineering services for 5 different sites: Holy Spirit, Queen of Apostles, St. Christopher, Holy Family and Gate of Heaven. The combined sites' needs included 11 different roof top systems and 4 ground mount systems.

MME designed the structural solar frame system, the connection to the roof and evaluation of the existing building structures. MME designed different frame systems to adapt to the difficult parameters encompassing each individual roof slope and building structure. Most of the buildings have been in existence for over 50 years and had no pre-existing plans or drawings, so extensive field documentation of existing conditions was necessary in order to properly evaluate the existing structure and prepare construction documentation suitable for approval by the Division of State Architects (DSA).

This project exemplifies MME's ability to custom fit solar systems to many different building types while maintaining the integrity of the structure and to optimize solutions to overcome design challenges.

Client Reference

Robert Laubach
MBL & Sons, Inc.
1698 Rogers Ave.,
San Jose, CA 95112
(408) 467-0150
Budget: \$6M
Photovoltaic Size: 886 kW

