

Thurgood Marshall Elementary School Oxnard, CA

This project is a new 55,000 square foot elementary school located in the Oxnard School District. The school consist of various buildings, including classrooms, administration, library, cafeteria and multipurpose room.

As part of the scope of work, a study was performed to evaluate two options for the HVAC system. The option chosen was a packaged rooftop VAV system.

This system utilizes package rooftop gas electric air conditioners. The air conditioners are designed to serve multiple zones by utilizing a simplified variable volume, variable temperature (VVT) system. The engineering application for this type of system is small to medium buildings. It allows for the economy of larger central systems, while utilizing off the shelf commercial package units.

The plumbing systems provided for two central toilet facilities, classroom sinks and a cafeteria as part of a multipurpose building. All of the fixtures were selected for the use of an elementary school, with maintenance and vandal resistance a top priority. The plumbing system included a site natural gas system to each of the buildings.

The design team worked together to provide a 18% savings over the California Energy Standards. The savings included efficient lighting, high efficiency HVAC systems and efficient windows and insulation.

