

Shoreline Middle School Santa Cruz County, California

Civil and Structural Engineering





Client Reference:

Steve Sutherland, Principal SSA Landscape Architects, Inc. 303 Potrero Street, Suite 40-C Santa Cruz, CA 95060 (831) 459-0455

Budget: \$9 million

Mesiti-Miller Engineering designed the civil and structural site improvements for this state-funded middle school in Santa Cruz County. Site improvements included vehicle access and parking facilities for 90 cars, an outdoor amphitheater, several masonry and concrete retaining structures, a lengthy gabion retaining structure and the storm water collection system including an outfall structure for a 54-inch pipe discharging into a sensitive riparian habitat.

To minimize erosion of the adjacent riparian habitat, we developed a simple, cost-effective energy dissipater to reduce the storm water outflow velocity from 6.5 fps to 2.4 fps, less than the scouring velocity of fine sands.