



Energy Trail Bridge, Shoreline Regional Park Mountain View, California

Civil and Structural Engineering



Client Reference:

Mark Rogge (Presently with the City of Milpitas)
Senior Project Engineer
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Budget: \$600,000

As the prime design professional, Mesiti-Miller Engineering managed a large team in a coordinated effort to replace an old railroad car bridge crossing at a tidal portion of Permanente Creek in Shoreline Regional Park. MME designed the 75-foot long by 14-foot wide single-span concrete bridge and road approaches. The low arch design achieved aesthetically pleasing results by mimicking the surrounding low, rolling hills in the gentle arch of the bridge profile. The natural stone plinth faces and a palette of native estuary grasses, shrubs and trees blend the bridge into the existing environment. The guardrails were designed to provide both seating and visual access of the ambient natural surroundings along the full length of the bridge.

The bridge carries multiple utility pipes and conduits across Permanente Creek while accommodating a range of public users such as bird watchers, joggers, cyclists, golf carts, park maintenance vehicles, emergency response vehicles and periodic public concert event traffic. The MME team and its worked with numerous environmental and natural resource regulatory agencies such as US Fish and Game, Army Corps of Engineers, Bay Conservation and Development Commission, Regional Water Control Board and others to obtain permit approval.