



Project Spotlight

Green Beach Bridge - San Diego, CA



Owner: The North County Transit District (NCTD)
Engineer: HDR

Installer: Cell-Crete Corporation
Contractor: Granite Construction

Background Information

The Green Beach North Bridge 208.6 is located on Camp Pendleton near San Diego, California, and serves as a primary transport for freight and passenger trains between San Diego and the rest of the California coastline transit system. Originally built in 1926, the all-timber bridge was in need of repairs by 2021.

Project Details



While the bridge was in need of structural repairs, it was essential that interruption to the transit system remain minimal. To this end, AQUARIX® permeable low-density cellular concrete (PLDCC) manufactured by Aerix Industries® was placed to create an embankment four feet below the bridge track elevation. The construction crew from Cell-Crete Corporation placed 580 cubic yards of PLDCC in a step-lift formation utilizing two-foot lifts underneath the bridge structure. The AQUAERIX was placed within a two-week period, further accelerating the project timeline. The rebar shown in the picture will be the anchor for the shotcrete slope protection panel.

Aerix Added Value

The use of Aerix AQUARIX PLDCC enabled this project to be completed with minimal disruption to the transit system, but it also provided a unique level of permeability, which was essential for construction within such close proximity to the San Onofre Creek. Due to its permeable nature, PLDCC maintains its structural strength and integrity in areas with high water levels, making it ideal for waterfront construction.