



Tower Pier



Anchor Pier



Project: *Underwater Inspection and Evaluation of the Mount Hope Bridge carrying Rte. 114 over the Mount Hope Bay in Rhode Island*

Location: *Bristol/Portsmouth, RI*

Owner: *Rhode Island Turnpike and Bridge Authority*

A.DiCesare Associates, P.C. performed the underwater inspection, evaluation, and report preparation of the Mount Hope Bridge. The Mount Hope Bridge is a suspension bridge built in 1929 that carries Route 114 and connects Bristol and Portsmouth, Rhode Island over the Mount Hope Bay. It is a two-lane bridge with a center span of 1,200 feet and a vertical clearance of 135 feet. With a total length of 6,130 feet, it has 9 piers that are in the water. Piers 14-15 are the south anchorage piers for the cables. Piers 18 and 19 are the tower piers whose base is 54 feet below bay bottom and support towers 285 feet tall. The underwater inspection included a hands-on evaluation of all piers. Inspection findings were recorded on CADD documents, which may be used in the preparation of rehabilitation plans.

All work was performed in accordance with OSHA regulations utilizing a three-man dive crew, led by a Professional Engineer, with surface supplied air, continuous audio and video monitoring, as well as the policies, procedures, and specifications of the Rhode Island Turnpike and Bridge Authority, US Coast Guard and Homeland Security.
