



This project will replace the heavily-used I-95 Providence Viaduct in downtown Providence, including two 4-lane bridges that pass over the Woonasquatucket River, Amtrak's Northeast Corridor, and other ramps and local roads. Built in 1964, the bridge has surpassed its design life and is showing signs of aggressive deterioration.

The Viaduct is a central artery in Rhode Island and with over 220,000 daily vehicle crossings, it is one of the most heavily trafficked stretches of interstate on the East Coast. RIDOT intends to replace this bridge in phases to minimize the impact of its estimated \$169 million cost by spreading it over several years.

Steere Engineering, as the engineer for Manafort Brothers, has been providing structural engineering services for many of the operations required for Phase 1 of the project. The Project includes replacing the existing structures by constructing two new independent bridges and rebuilding adjacent ramp structures. In June 2013, construction of the new bridge to the west of the existing two bridges of the Providence Viaduct was started. The replacement structure will consist of 1,290-ft-long continuous steel girder spans supporting a reinforced-concrete deck. New concrete piers and abutments will be supported on steel piles. Each bridge structure will be constructed to accommodate at least four 12-ft lanes of traffic to provide adequate capacity during construction and maintenance activities.

Through three additional phases, RIDOT will relocate I-95 northbound traffic to the original southbound bridge, replace the existing I-95 north bridge, and demolish the original highway bridges once all traffic has been relocated to new structures. Partial reconstruction of the on-ramps to the northbound structure is also included in the project. All of the work is projected to be completed in 2019. Steere conducted NBIS bridge inspections, provided design and coordination for a critical temporary ramp bridge, support of excavation designs (SOE), erection procedures, and shielding and formwork design. The project is funded in part with a \$10M TIGER grant.



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Design Completion: Phase I – 2013
Construction Completion: 2019
Project Cost: \$67 Million