

Client:
Pennsylvania Turnpike
Commission (PTC)

Client Reference:
Brad Updegrave
Project Engineer
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Northeast Extension Bridge Widening and Painting

Project Cost: \$650,000.00 – **Completion Years:** 2011 (widening) and 2009 (redecking)
Remington, Vernick & Beach Engineers was retained by the Pennsylvania Turnpike Commission to provide engineering design services for the redecking and widening of mainline Bridges NB-355 at Milepost A-57.66 NB-360 at Milepost A-58.58 and NB-363 at Milepost A-59.2.

Bridge NB-355 carries the Turnpike over Crackersport Road in South Whitehall Township in Lehigh County. This bridge is a three-span, simply supported steel I-beam structure and is approximately 131 feet long. The existing bridge deck carries two 12-foot wide lanes northbound and southbound, and has a four-foot wide median and three-foot wide right shoulders. Bridge NB-360 carries the Turnpike over State Route 309 in South Whitehall Township. This bridge is a single span, steel I-beam structure, approximately 99 feet long. The existing bridge deck carries two 12-foot wide lanes northbound and southbound, and has a four-foot wide median and six foot wide right shoulders.

Both bridges are being redecked and widened to provide for two 12-foot wide lanes northbound and southbound, a four-foot total width median and 12-foot wide right shoulders. The design will provide for a “rapid redecking” type of construction to allow portions of the deck to be removed and replaced within the same overnight construction. Detailed maintenance and protection of traffic (MPT) and staging plans were necessary since all existing lanes needed to be available. Also included in this contract is the painting and rehabilitation of Bridges NB-367 at Milepost A-60.33 and NB-369 at Milepost A-61.11. The steel superstructures on both bridges are to be completely cleaned and painted with a conventional multi-coat painting system, and the concrete substructures will be cleaned and coated with anti-graffiti paint. Work included detailed visual inspection, report of recommendations and contract document preparation of the recommended repairs.

Bridge and Roadway Reconstruction

Project Cost: \$318,743.00 – **Project Duration:** July 2008 to June 2011

The firm was also retained by the Pennsylvania Turnpike Commission for the widening and replacement of four mainline bridge structures and the extension of two culvert structures between Mileposts A58.2 and Milepost A-60.40 associated with the widening of this two plus mile of Turnpike Roadway. Four existing lane roadways were widened to six lanes with a 26-foot center median and two 12-foot shoulders. Engineering services included topographic and location survey, highway design, bridge design and traffic design.

Bridge and Roadway Improvements

Northeast Extension of the Pennsylvania Turnpike in Pennsylvania ENGINEERING DESIGN SUPPORT SERVICES

