

I-78 Toll Bridge - PA Approach Improvements

The Interstate 78 (I-78) Toll Bridge is one of seven toll bridges located and operated within the jurisdiction of the Delaware River Joint Toll Bridge Commission. The need for the proposed improvements to the Pennsylvania approach concrete slab roadway and approach bridge structures stems from the Commission's desire to provide a safe, dependable and efficient river crossing. The I-78 corridor is a primary truck route for traffic moving into and out of New York City and New England. With the implementation of Open Road Tolling in 2010, increased truck traffic was experienced, and this increase is expected to continue. Thus, the goal of the PA Approach roadway reconstruction was to rehabilitate the concrete pavement to accommodate heavy truck traffic along the I-78 corridor within the Commission's jurisdictional limits; to preclude major repairs or rehabilitation for a minimum of 15 years; and to address the findings in both the firm's evaluation and the previously completed pavement evaluation report.

The firm was aware of the need to provide a design that was cost-effective and which could be completed efficiently and with minimal inconvenience and delay to the customer. In order to meet the goals and needs of the Commission, the firm provided the preliminary and final design, as well as construction services, for a proposed asphalt overlay system that incorporated the use of a grouting system under the concrete slabs. This enabled the work to be completed with less disruption to the traffic and at a lower cost than complete slab replacement.

I-78 Mainline - Asphalt Paving

After

I-78 Mainline - Looking West from Cedarville Rd Bridge

Before

ACEC New Jersey

AMERICAN COUNCIL OF ENGINEERING COMPANIES

Project: I-78 Toll Bridge - PA Approach Improvements
Location: Williams Township, Northampton County, PA

Entrant:

KSE
KS Engineers, P.C.
New Jersey



I-78 Mainline - Core Drilling for Grout Operation