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I-78 Open Road Tolling – Design/Build

Williams Township, Pennsylvania

PROJECT NAME

Design / Build Services for I-78 Open Road Tolling at the Delaware River Crossing on Interstate I-78

PROJECT OWNER

Delaware River Joint Toll Bridge
Commission (DRJTBC)

PROJECT CLIENT

A.P. Construction Company

START/END DATES

2009 – 2010

PROJECT DESCRIPTION

KS Engineers, P.C. (KSE) was the design engineer for this fast-track Design/Build project.

On the Pennsylvania side, the existing Interstate 78 (I-78) toll facility is located in Williams Township, PA, approximately one mile west of the Delaware River. At this facility, tolls are collected in the westbound direction only and the existing toll plaza is a seven-lane facility that accommodates both manual toll collection and E-ZPass. Westbound I-78 is a three-lane Interstate freeway that widens to four lanes in the vicinity of the Cedarville Road overpass, prior to expanding to the full seven lanes approximately 800 feet from the existing toll plaza.

The Commission is committed to implementing Open Road Tolling (ORT) at its I-78 river crossing. When the I-78 ORT project is completed, motorists equipped with E-ZPass will have the option of paying their tolls at highway speeds. ORT customers would pass under a space frame canopy of high-speed transponder readers, avoiding the necessity of slowing down or stopping.

The design work associated with this project includes partial demolition and removal of the existing toll plaza canopy, supports, and HVAC equipment; relocation of the HVAC equipment into the remaining existing canopy; architectural treatments to match the existing canopy; provision for a new access stairway, walkway, and entrance door; installation of new Daktronic signs on the existing canopy; installation of a new space frame canopy and all ORT toll collection equipment; modifications to the electrical system; installation of four new overhead sign structures; and MPT during construction.

