U.S. Route 15
Smart Traffic Signal System
Borough of Lewisburg, PA

Client/Owner: Borough of Lewisburg, PA
Submitted by: Pennoni, Mechanicsburg, PA

Adaptive Traffic Control Systems determine optimal signal timings based upon detected traffic volumes, autonomously adjusting signal timings in real-time. Pennoni used this technology to design a system of three signalized intersections along a portion of U.S. Route 15 in Lewisburg Borough and East Buffalo Township, Union County, PA. U.S. Route 15 is a major arterial and a critical part of the region’s transportation system, linking the Lewisburg area with Harrisburg to the south and I-80 to the north. Lewisburg is a primary commercial center and has the greatest population density in Union County. This traffic-control system is expected to reduce delay, queuing, and emissions, without expensive and disruptive roadway improvements.