

SR 18 (Hermitage Rd) Traffic Signal Retiming Project

CITY OF HERMITAGE SIGNAL RETIMING PROJECT

PROJECT LOCATION:

MERCER COUNTY



CITY OF HERMITAGE CONTACT INFORMATION

City of Hermitage 800 North Hermitage Road Hermitage, PA 16148

Mr. Jeremy Coxe
Department of Planning &
Development
Phone: 724-981-0800
jcoxe@hermitage.net

PROJECT PARTNERS:

Shenango Valley Area Transportation Study

Federal Highway Administration

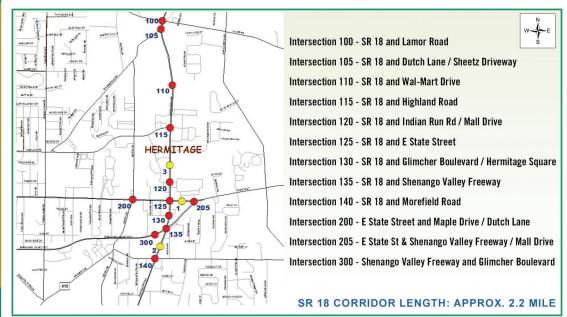
Pennsylvania Department of Transportation, District 1-0

City of Hermitage

Whitman, Requardt, & Associates, LLP

The Shenango Valley Area Transportation Study (SVATS) MPO funded the development of a signal retiming project along a 2.2 mile portion of State Route 18 (Hermitage Road) as well as two (2) nearby intersections along Business Route 62 (State Street) and one (1) intersection on U.S. Route 62 (Shenango Valley Freeway) for the City of Hermitage.

The City of Hermitage SR 18 Signals In Coordination Project is a signal retiming project with the goal of optimizing signal operations along the SR 18 corridor while considering all users of the intersections.



Traffic Signal Coordination:

- Improves safety because vehicles stop less often, which reduces the probability for rear-end crashes
- Benefits the environment by reducing vehicle emissions
- Reduces travel costs by reducing the amount of time stopped at red lights
- Saves money at the gas station by reducing fuel use







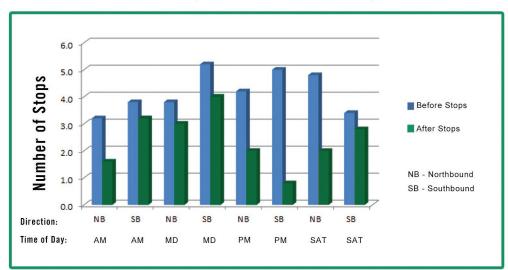


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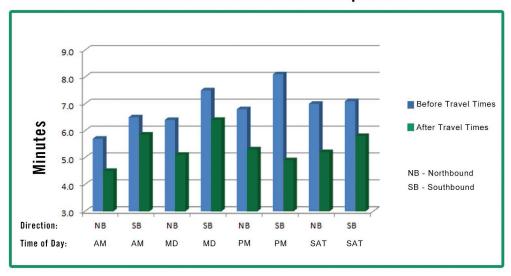
Travel Improvements:

The results show that the Peak-Hour travel times were reduced significantly. Travel times typically decreased by 1.3 to 1.7 minutes, with an average 21% improvement in travel time. Also, there were approximately 40% fewer stops along SR 18, and an average 55% decrease in signal delays.

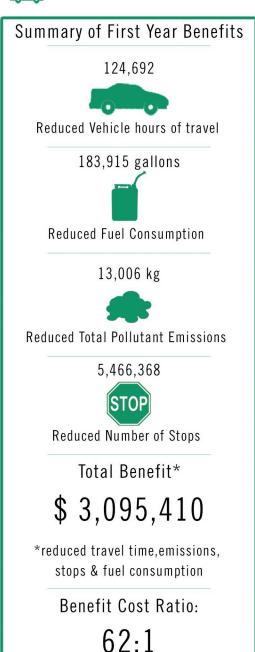
Number of Stops: Before & After Comparison



Travel Time: Before & After Comparison







Prior to this signal retiming project, motorists typically experienced moderate delays and the frustration of consecutive stopping at traffic signals. This project coordinated the traffic patterns among these intersections which alleviated consecutive stopping, which reduced the frustration of consecutive stopping for motorists. In addition, a Special School plan was implemented for school arrivals that helped eliminate back-ups onto SR 18.