

# SR 228 PennDOT/FHWA Road Safety Audit

## AUDIT LOCATION & BACKGROUND

On May 2<sup>nd</sup> and 3<sup>rd</sup> 2017, PennDOT District 10-0, In Conjunction with FHWA and other agencies, conducted a road Safety Audit of State Route 228 From the interchange with Interstate 79 in Cranberry Township, Butler County, to the intersection of 228 and Route 8 in Middlesex Township in Butler County.

Beginning in the early 2000's, significant economic growth originating in Cranberry Township and expanding to the east caused the need for the corridor to develop from a rural 2-lane highway to a Major Urban 5-Lane Arterial. Because of re-zoning and the expansion of public utilities, this growth is expected to continue. PennDOT and local municipalities have attempted to mitigate ever increasing traffic demand through the highway occupancy permit process, however significant improvements are needed in locations outside of those boundaries. District 10 is addressing the added capacity needs, safety concerns, and access control with a series of construction projects throughout the nearly 9 mile corridor. These projects are in various stages from preliminary engineering to completed construction. See Attached map, Exhibit "A"

## AUDIT OBJECTIVES

This Safety Audit was performed with two main objectives:

1. Gather consensus regarding general design features and controls such as lane widths, shoulder widths, design speed and posted speed, median treatment, and access control to guide current and future design projects along the corridor
2. Identify short term, project specific, and long term suggestions for issues identified on the corridor to provide to PennDOT and the appropriate Municipalities.

## AUDIT TEAM

The Safety Audit Team consisted of the following individuals:

<b>Team Member</b>	<b>Agency</b>	<b>Position</b>
Melissa Furlong, P.E.	F.H.W.A.	Transportation Engineer
Michael Castellano, P.E.	F.H.W.A.	Transportation Engineer
James Paral, P.E.	F.H.W.A.	Transportation Engineer
Jeffrey Bucher, P.E.	PennDOT Central Office	Area Engineer
Mark Rozich, P.E.	PennDOT 10-0	Sr. Design Project Manager
Chad Mosco, P.E.	PennDOT 10-0	Design Project Manager
Adam Marshall, P.E.	PennDOT 10-0	Asst. Traffic Engineer, ITS/Signals
Bryan Walker	PennDOT 12-0	Asst. Traffic Engineer
Corey Craft	PennDOT 12-0	Safety Engineer
Joshua Spano	S.P.C.	Planner

## **AUDIT SCHEDULE**

The Safety audit team performed field views, interviews, and met to prepare this report. Below is the schedule as performed:

### **Tuesday May 2<sup>nd</sup>, 2017**

1:00 PM – 3:00 PM – Kick off Meeting – PM Mark Rozich and Consultant representative provided background information on the corridor and the team reviewed appropriate crash data

3:00 PM – 5:00 PM – Safety Audit Team Field Views

8:00 Pm – 10:00 PM – Safety Audit Team night reviews

### **Wednesday, May 3<sup>rd</sup>, 2017**

7:00 AM – 9:30 AM – Safety Audit Team AM peak review

10:00 AM – 12:00 PM – Local Stakeholder Open House

1:00 PM – 5:30 PM – Report Preparation

## **AUDIT RESULTS**

After field views, interviews and much discussion, the safety audit team discussed the design factors in question for the corridor and agreed in principle to the items presented in Exhibit “B”. These items will be presented to District 10-0 management for their support. If agreed to, this criteria will be used to guide all current and future design projects on the corridor.

Additionally, 28 Safety observations were made for short term, project level, or long term improvements. These observations were location specific, or general observations on the corridor. These items will be shared with the appropriate responsible party and with future design teams on upcoming projects. See Exhibit “C”