Getting Started with Intersection Safety Technology

An Overview for Agencies Wanting to Learn More About Intersection Conflict Warning Systems and LED STOP Signs

Intersection safety technologies are a great tool to consider to improve intersection safety but can be confusing and intimidating for agencies that have not used them in the past. This guidebook funded by the Local Road Research Board (LRRB) contains basic information about alternative solutions to traffic safety concerns at side-street STOP controlled intersections. It is the intent of this guide to provide the engineer information to aid in the consideration, selection and deployment of Intersection Conflict Warning Systems (ICWS) and LED STOP signs at these intersections.

The guidebook includes:

- History of the evolution of intersection safety technologies in Minnesota
- Usage and research related to each technology
- Design considerations and costs associated with each technology
- Case studies that highlight experiences and lessons learned for eight agencies in Minnesota that have installed an LED Stop Sign or ICWS systems on their roadways
- Example design plans

A shorter, quick reference version of this guidebook was developed as well.

ICWS Signs

Intersection Conflict Warning System (ICWS) have dynamic flashing signs and detection that provide active warning about traffic on the major road, minor road, or both roads at the intersection.

LED STOP Signs

LED STOP signs provide increased visibility and awareness of the upcoming stop condition.

Get a copy here:

Project Overview:
http://dotapp7.dot.state.mn.us/projectPages/pages/projectDetails.jsf?id=5954&type=PROJECT

Guidebook:
http://www.lrrb.org/media/reports/2016RIC10.pdf

Quick Reference Guidebook:
http://www.lrrb.org/media/reports/2016RIC10A.pdf

Appendix D: Example Design Plans:
http://www.lrrb.org/media/reports/2016RIC10B.pdf