The purpose of the Wisconsin DOT Intelligent Transportation Systems Design and Operations Guide is to familiarize engineers with ITS elements and the process and information necessary to design and implement Intelligent Transportation System (ITS) elements for WisDOT. The intended audience for the guide is WisDOT regional traffic staff, regional project development staff, and consultants. The guide is written at a level that assumes working knowledge of signal design, roadway signing design, and electrical design as it applies to roadway design and installation elements. Information about the following ITS elements are included in the guide:

- ramp meters,
- system detector stations
- closed-circuit television cameras
- dynamic message signs
- portable message signs
- dynamic trailblazer signs
- ramp gates
- crash investigation sites
- law enforcement pads
- roadside weather stations
- smart work zones

The Division of Transportation System Development - Bureau of Traffic Operations (DTSD-BTO) Traffic Engineering Section, maintains the guide. The developer is required to contact WisDOT BTO for any ITS inquiries after determining the need for such ITS devices.

The ITS Design and Operations Guide can be found at:


The Traffic Engineering, Operations and Safety Manual (TEOpS) contains policy, guidelines and procedures related to traffic engineering and related functions as practiced within the Wisconsin Department of Transportation. More specifically, the region field and office forces of the Division of Transportation Systems Development, the staff of the Bureau of Traffic Operations, and other agencies of the Department which may be involved in traffic engineering. Traffic engineering functions include the installation and maintenance of traffic control devices, highway lighting facilities, traffic regulations, safety analyses, and support for the improvement program.

The TEOpS manual can be found at:


The guidance supplied by the Traffic Signal Design Manual (TSDM), is based on established practices of the Wisconsin Department of Transportation and is supplemented by research. It is applicable to all types of new traffic signal installations and revisions. The TSDM does not describe all possible situations; rather, it is intended to promote sound engineering and uniformity in the design process and operational aspects of traffic signals on the State Trunk Highway system in the State of Wisconsin. This document does not constitute a legal standard, specification, or regulation.

The TSDM can be found at: