



# MEMO

February 11, 2019

**To:** District Engineers

**From:** Michael A. Chacon, P.E.  
Director, Traffic Safety Division

DocuSigned by:

*Michael A. Chacon, P.E.*

06D7FD6C5CEC46B...

**Subject:** Work Zone Intelligent Transportation Systems (ITS) Standard Sheets – Temporary Queue Detection Systems (WZ-ITS(1)-19, WZ-ITS(2)-19 and WZ-ITS(3)-19)

The Traffic Safety Division has prepared the attached standard sheets for the Work Zone Intelligent Transportation Systems (ITS) application of a queue detection system. The standards consist of the following two types of queue detection systems:

- Temporary Queue Detection System Type 1 (WZ-ITS(1)-19 and WZ-ITS(2)-19).
  - Details for a temporary queue detection system with a maximum design queue of 7.5 miles.
  - Operational guidelines for associated portable changeable message sign messages.
- Temporary Queue Detection System Type 2 (WZ-ITS(3)-19).
  - Details for temporary queue detection systems with a maximum design queue of 3.5 miles.
  - Operational guidelines for associated portable changeable message sign messages.

Basic guidelines for the consistent and uniform application of various work zone ITS strategies, including queue detection systems, are summarized in a TxDOT publication titled Smart Work Zone Guidelines. The intent of work zone ITS applications is to improve safety and mobility for motorists as well as work zone personnel. Other benefits include reducing traffic delay through work zones, providing effective construction-related information to the public, and providing performance metrics for future work zone design improvements.

The work zone ITS queue detection system standard sheets may be used immediately. The standard sheets are available in Microstation and PDF formats at the following address:

<http://www.txdot.gov/insdtdot/orgchart/cmd/cserve/standard/toc.htm>

The Smart Work Zone Guidelines publication can be found at:

<http://ftp.dot.state.tx.us/pub/txdot-info/trf/smart-work-zone-guidelines.pdf>

OUR VALUES: *People • Accountability • Trust • Honesty*

OUR MISSION: *Through collaboration and leadership, we deliver a safe, reliable, and integrated transportation system that enables the movement of people and goods.*

An Equal Opportunity Employer

If you have any questions or need additional information, please contact Henry Wickes at (512) 506-5125.

cc: ADM  
AUD  
BRG  
CST  
DES  
MNT

Stephen Ratke, FHWA TX Division  
Thomas Johnston, P.E., AGC  
Thomas Bohuslav, P.E., AGC  
Gregory Brinkmeyer, P.E., ATSSA  
Kathy Stone, TEEX  
Dawn Hinton, UTA