

ROADWAY DESIGN BULLETIN 22-##
TRAFFIC ENGINEERING AND OPERATIONS BULLETIN 22-##
PROGRAM MANAGEMENT BULLETIN 22-##

DATE: October ##, 2022

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Maintenance Engineers, District Consultant Project Manager Engineers, District Roadway Design Engineers, District Traffic Operations Engineers, District Program Management Engineers, District Safety Administrators

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SUBJECT: Smart Work Zone (SWZ) Devices and Strategies

This Bulletin introduces new ***FDOT Design Manual (FDM) Developmental Design Criteria (DDC)***, ***Developmental Specifications***, ***Developmental Standard Plans***, and the ***Smart Work Zone (SWZ) Design and Operation Guidebook*** to support Smart Work Zone (SWZ) devices and strategies.

COMMENTARY

The ***FDM***, ***Standard Plans***, and ***Standard Specifications*** have been updated and expanded to aid in the design, construction, and operation of SWZ technologies used during Temporary Traffic Control (TTC). Additionally, a new ***Smart Work Zone (SWZ) Design and Operation Guidebook*** has been created to provide guidance on incorporating SWZ device and strategies into projects from project planning through construction. The use of these SWZ devices and strategies are directed at improving traffic safety and efficiency in work zones through use of portable technologies to collect real-time traffic data and share real-time road conditions with travelers.

The following provides a list of the documents released with this Bulletin and website links where they can be found:

1. ***Developmental Design Criteria (DDC), D240 (Transportation Management Plan)***:
 - a. Replace ***FDM 240.2.1.2 (Work Zone Speed)*** with ***DDC 240.2.1.2***
 - b. Replace ***FDM 240.3 (Transportation Operations Plan)*** with ***DDC 240.3***.
 - c. Replace ***FDM 240.4 (Public Information Plan)*** with ***DDC 240.4***.
 - d. Add ***DDC 240.6 (Smart Work Zones)***

Developmental Design Criteria (DDC) website: <https://www.fdot.gov/roadway/fdm/dev>

2. **Developmental Standard Plans, 102 Series:**

- a. **Index D102-608a** (Dynamic Queue Detection and Warning - Two-Lane, Two-Way Temporary Diversion Connection)
- b. **Index D102-608b** (Dynamic Speed Harmonization - Two-Lane, Two-Way Temporary Diversion Connection)
- c. **Index D102-613a** (Dynamic Lane Merge – Multilane Roadway, Lane Closures)
- d. **Index D102-613b** (Dynamic Queue Detection and Warning – Multilane Roadway, Lane Closures)
- e. **Index D102-613c** (Dynamic Speed Harmonization – Multilane Roadway, Lane Closures)
- f. **Index D102-620a** (Dynamic Lane Merge – Multilane Roadway, Temporary Diversion)
- g. **Index D102-620b** (Dynamic Queue Detection and Warning – Multilane Roadway, Temporary Diversion)
- h. **Index D102-620c** (Dynamic Speed Harmonization – Multilane Roadway, Temporary Diversion)
- i. **Index D102-655** (Traffic Pacing)

Developmental Standard Plans website: <https://www.fdot.gov/roadway/ds/dev.shtm>

3. **Developmental Specifications:**

- a. **Development Specification, Dev102SWZ** (Maintenance of Traffic)
- b. **Development Specification, Dev990SWZ** (Temporary Traffic Control Device Materials)

Developmental Specifications website:

<https://www.fdot.gov/programmanagement/otherfdotlinks/developmental/default.shtm>

4. **Smart Work Zone (SWZ) Design and Operation Guidebook**

<https://www.fdot.gov/programmanagement/otherfdotlinks/developmental/default.shtm>

IMPLEMENTATION

The above referenced documents are available for use on all projects. See **FDM 100** for **DDC** usage requirements. Follow the *Developmental Standard Plans Usage Process* outlined in **FDM 115** and insert appropriate **Developmental Standard Plans** into the Contract Plans in accordance with **FDM 302/910**. The **Developmental Specifications** must be requested through the District Specifications Office and included in the project *Specifications Package* in accordance with the **Specifications Handbook**.

TRAINING

In addition to the **Smart Work Zone (SWZ) Design and Operation Guidebook**, a *SWZ Designer Training* module is being developed to help introduce designers to the devices, strategies, resources, and selection process for implementing SWZs into a TTC Plan. The training module will be available on the Standard Plans training site: <https://www.fdot.gov/roadway/training/trainweb.shtm>.

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