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OFFICE OF DESIGN BULLETIN 24-01
TRAFFIC ENGINEERING AND OPERATIONS BULLETIN 24-01
(FHWA Approved: 09/20/23)

DATE: January 26th, 2024

TO: District Directors of Transportation Operations, District Directors of Transportation Development, District Design Engineers, District Construction Engineers, District Maintenance Engineers, District Pavement Engineers, District Consultant Project Management Engineers, District Structures Design Engineers, District Roadway Design Engineers, District Geotechnical Engineers, District Traffic Operations Engineers, District Program Management Engineers, District Drainage Engineers, District Materials Engineers, District Specifications Engineers, District Estimates Engineers, District Safety Engineers, District Safety Administrators

FROM: Michael Shepard, P.E., Director, Office of Design
Rudy Powell, P.E., Director, Traffic Engineering and Operations

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COPIES: Will Watts, Dan Hurtado, Tim Lattner, Lance Grace, Jennifer Marshall, Xiaoyan Zheng, Derwood Sheppard, Rick Jenkins, Lora Hollingsworth, Will Potter, Patrick Overton, Scott Arnold, Kevin Burgess (FHWA), Mark Perry (FHWA), Khoa Nguyen (FHWA), Bren George (FHWA), Ananth Prasad (FTBA)

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 devices 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.

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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 240.3*** *(Transportation Operations Plan)* with ***DDC 240.3***.
    b. Replace ***FDM 240.4*** *(Public Information Plan)* with ***DDC 240.4***.
    c. 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)*

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

3. ***Smart Work Zone (SWZ) Design and Operation Guidebook***
    https://www.fdot.gov/traffic/doc-library/doc-library.shtm

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The associated ***SWZ Developmental Specifications; Dev102SWZ*** *(Maintenance of Traffic)* and ***Development Specification, Dev990SWZ*** *(Temporary Traffic Control Device Materials)*, have already been released and can be found at the Developmental Specifications website:

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 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***.

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