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TRAFFIC ENGINEERING AND OPERATIONS BULLETIN 21-07

DATE: November 1, 2021

TO: District Traffic Operations Engineers, District Safety Administrators, District Design Engineers, District Project Development Engineers and Administrators

FROM: Trey Tillander
Director, Traffic Engineering and Operations

COPIES: Will Watts, Tim Lattner, Jennifer Marshall, State Traffic Engineering and Operations Office

SUBJECT: **Manual on Intersection Control Evaluation (ICE)**

DocuSigned by:
Trey Tillander
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This bulletin announces the release of the 2022 Manual on Intersection Control Evaluation (ICE) which is available on the State Traffic Engineering and Operations website:
<https://www.fdot.gov/traffic/trafficservices/intersection-operations.shtm>

SUMMARY OF REVISIONS

- **Chapter 2 Intersection Control Evaluation**
 - **Section 2.2:** Updated with the 2021 Strategic Highway Safety Plan (SHSP) and new intersection crash data. Added references to the FDOT Design Manual (FDM) and context classification and included ramp terminal intersections in SPICE.
 - **Section 2.3:** Updated to specifically exempt signalization at midblock crosswalk from ICE analysis.
 - **Section 2.4:** Updated with the reference to the 2021 FDOT Traffic Analysis Handbook.
 - **Section 2.5:**
 - Added language and Metrics in Stage 1, 2 and Table 3 and 4 regarding the addition of the Safe System for Intersections (SSI) safety analysis in SPICE.
 - Introduced new thru-cut intersection to ICE analysis.
 - Added further discussion on FDOT ICE Tool’s Stage 2 form to include both with and without benefit-cost analysis and updated how to set up forms.
 - Added language regarding Stage 1 and Stage 2 ICE analysis in a PD&E Study and updated tables.
 - Added and modified tools and resources for ICE in Table 6.

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- **Appendix A Intersection Type References**
 - Added some reference materials for DLT, RCUT, and MUT in Table A1. Also added thru-cut intersections (signalized and unsignalized) at the end of the table.
 - Added new Table A2 for considerations for ramp terminal intersections design and operations.

- **Appendix B FDOT ICE Forms**
 - Added thru-cut intersection to Stage 1 ICE Form (at-grade intersection).
 - Added new Stage 1 ICE forms for ramp terminal intersections.
 - Added discussion on setting up form for “At-Grade Intersection” or “Ramp Terminal Intersection” and then choosing the “Project Funding Source” in Stage 1 Form.
 - Added new information required for “Ramp Terminal Intersections”.
 - Expanded the Screening Evaluation section for considerations in comparing SPICE’s crash prediction to the SSI analysis and rank.
 - Added SSI discussion under Safety Performance in Stage 2 ICE Form.

- **Appendix C Analysis Considerations**
 - Added new discussion on Safe System Performance and SSI Analysis along with new tables C1 and C2.
 - Updated the language to Target Speed under Control Strategy Evaluation Consideration to note that FDM has discussion on the target speed.
 - Modified language to Crash Prediction and Evaluation under Control Strategy Evaluation Consideration.

COMMENTARY

The non-editorial revisions and additions to the ICE manual and forms in this bulletin will advance Vital Few Safety and Mobility throughout the State. All sections have been reviewed by Districts counterparts and all comments from reviewers have been address accordingly. All revisions in this bulletin will ensure accurate and consistent implementation with no shift of risk issues.

IMPLEMENTATION

These changes are effective on projects beginning design on or after January 1, 2022, and on projects currently in the design phase where implementation will not adversely impact production schedules.

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