

Introduction To Traffic Engineering Manual

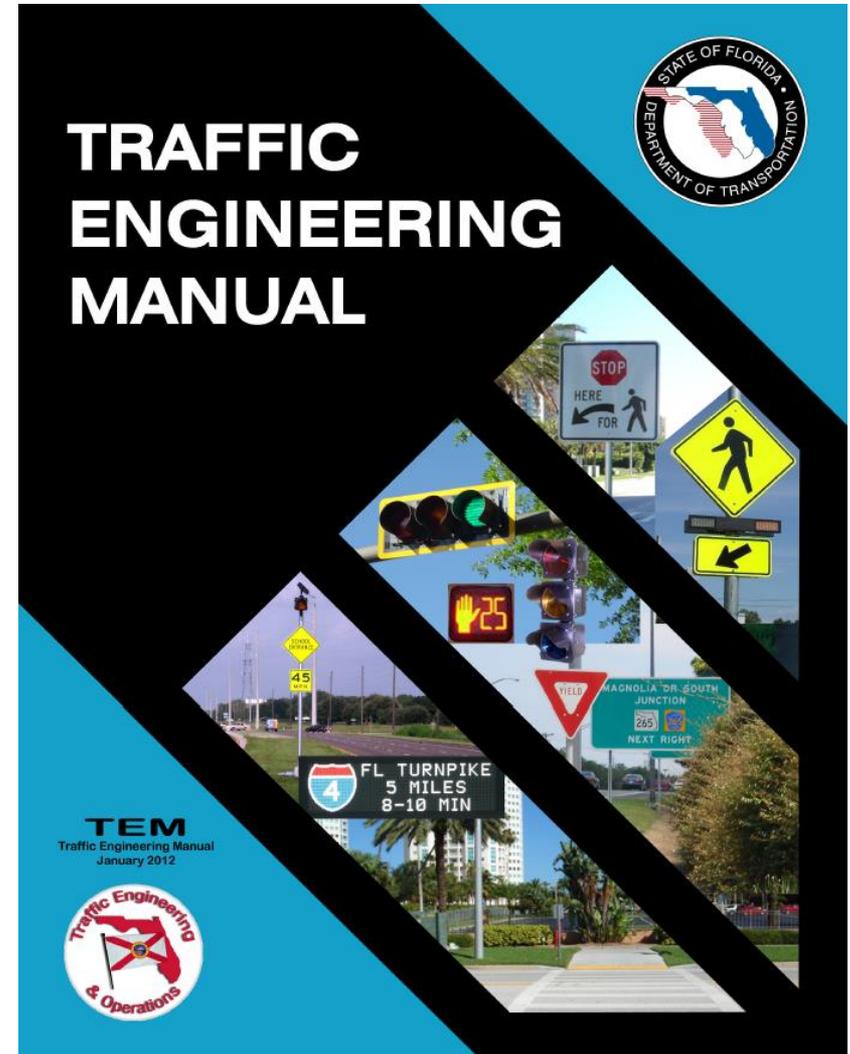


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What is the Traffic Engineering Manual (TEM)

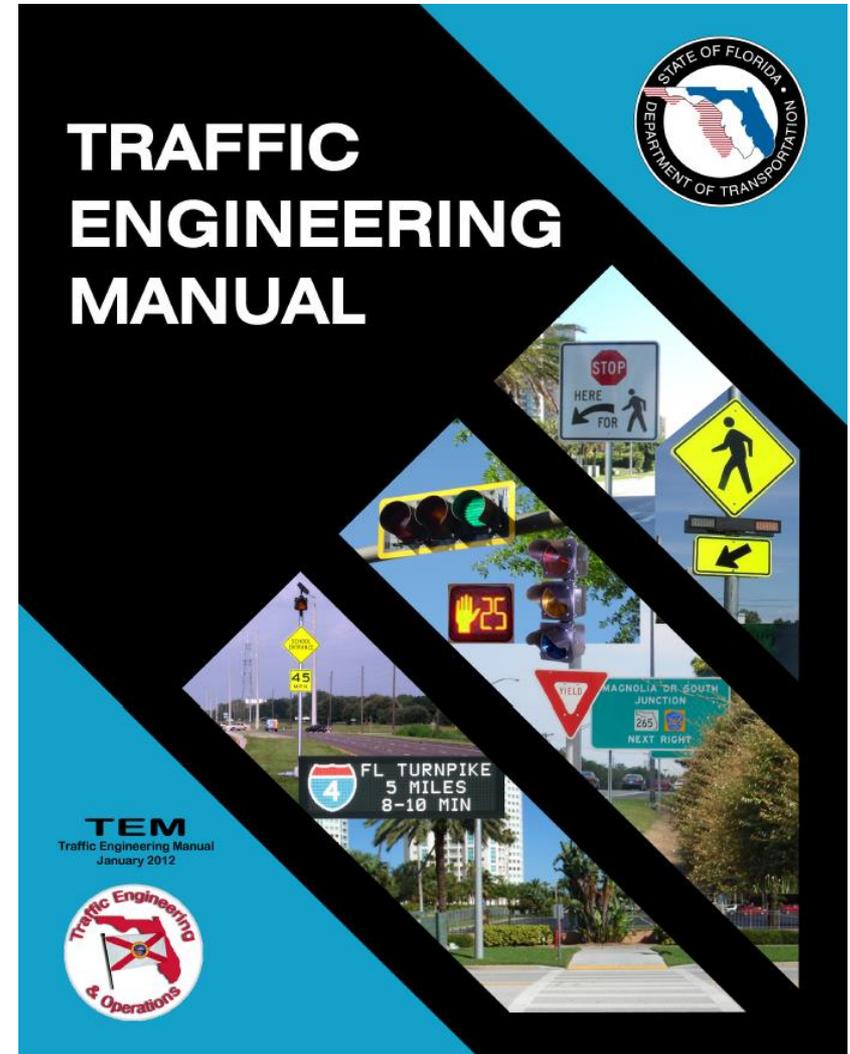
“Provide traffic engineering standards and guidelines to be used on the State Highway System”

www.dot.state.fl.us/TrafficOperations/Operations/Studies/TEM



Who Uses The Traffic Engineering Manual (TEM)

- ◆ Design
- ◆ Maintenance
- ◆ Construction
- ◆ Operations
- ◆ Local Municipalities
- ◆ Consultants



History Of Traffic Engineering Manual

- ◆ The Traffic Engineering Manual was compiled in 1991

- ◆ What makes up the Manual?
 - ✓ Bulletins
 - ✓ Memorandums
 - ✓ Procedures

Chapters Of Traffic Engineering Manual

- ◆ Ch. 1: Procedure
- ◆ Ch. 2: Signs – 2.1 thru 2.40
- ◆ Ch. 3: Signals – 3.1 thru 3.9
- ◆ Ch. 4: Markings – 4.1 thru 4.4
- ◆ Ch. 5: Specialized Operational Topics – 5.1
- ◆ Ch. 6: Safe Mobility for Life
- ◆ Ch. 7: Technology – 7.1

Chapter 1: Procedure

- ◆ Purpose
- ◆ Authority
 - ✓ F.S. 20.23 and 334.048
- ◆ Distribution/Availability
- ◆ Registration
 - ✓ Subscribe thru website
- ◆ Revisions/Additions
 - ✓ Manual Review Committee
 - ✓ Email notification of revision
- ◆ Variations
 - ✓ Specific conditions
 - ✓ Case-by-case basis
 - ✓ Process
 - Written request to DTOE
 - Forward to STOE for approval

Chapter 1: Procedure

◆ Update Information

✓ Review Process

- DTOE's, Statewide internal distribution,

✓ Department's Forms/Procedure Process

Chapter 2: Signs

- ◆ 2.1-Use of Slippery When Wet Signs
- ◆ 2.2-Overhead Street Name Signs
- ◆ 2.3-Signs and Markings at Divided Highways and Crossroads
- ◆ 2.4-Symbol Signs on the State Highway System
- ◆ 2.5-Destination Distance Signs at Rural Interstate and Freeway Exit Ramp Terminals
- ◆ 2.6-Bridge Signs and Markings
- ◆ 2.7-Place Name Signs on the State Highway System
- ◆ 2.8-Move Accident Vehicles from Travel Lane Signs
- ◆ 2.9-No Passing Zone Signs
- ◆ 2.10-Vending Machine Signs
- ◆ 2.11-Guidelines for Bicycle Warning Signs
- ◆ 2.12-Recycling Collection Center Signs
- ◆ 2.13-Signing for Safety Belt Use and Child Restraint Laws
- ◆ 2.14-Signing for Evacuation Routes
- ◆ 2.15-Smoke on Highway Signs
- ◆ 2.16-Signing for Supplemental Guide Signs and Motorist Services on Limited and Non-Limited Access Highways
- ◆ 2.17-Emergency Highway Traffic Plan
- ◆ 2.18-FHP Highway Assistance Program
- ◆ 2.20-Call Box/Mile Marker Signs
- ◆ 2.21-Florida Litter Law Signs
- ◆ 2.22-Traffic Control for Toll Collection Facilities
- ◆ 2.23-Florida's Turnpike and Toll Road Numbering and Signing Program
- ◆ 2.24-Placement of Crime Watch Signs on State Highway System
- ◆ 2.25-Distance Signing for Non-Limited Access Facilities
- ◆ 2.26-Advance Guide Signs on Limited Access Facilities
- ◆ 2.27-Commuter Assistance Signs
- ◆ 2.28-Mile Markers Along Arterial Highways
- ◆ 2.29-Use of Fluorescent Yellow-Green Sheeting
- ◆ 2.30-One-Stop Career Center Signs
- ◆ 2.31-Unique Transportation Symbol Signs
- ◆ 2.32-Telephone Service Sign
- ◆ 2.33-Signing for Nature-Based Tourism and Heritage Tourism Trails
- ◆ 2.34-Signing for the Florida Scenic Highways Program and National Scenic Byways Program
- ◆ 2.35-Signing for Memorial Road Designations
- ◆ 2.36-Community Wayfinding Guide Signs
- ◆ 2.37-Advance Street Name Signs
- ◆ 2.38-Use of Temporary Stop Signs at Non-Functioning Signalized Intersections
- ◆ 2.39-Warning, Stop, and Yield Sign Sizes
- ◆ 2.40-Display Messages on Dynamic Message Signs Permanently Mounted on the State Highway System

Chapter 3: Signals

- ◆ 3.1-Signalized Intersection Flashing Mode Operation and Flashing Beacons
- ◆ 3.2-Guidelines for Left Turn Treatment
- ◆ 3.3-Scheduling Traffic Signal Studies and Funding Arrangements
- ◆ 3.4-Emergency Traffic Control Signals
- ◆ 3.5-Traffic Signal Mast Arm Support Boundaries
- ◆ 3.6-Standardization of Yellow Change and Red Clearance Intervals for Signalized Intersections
- ◆ 3.7-Audible Pedestrian Signals
- ◆ 3.8-Mid-Block Pedestrian Crosswalks
- ◆ 3.9-Countdown Pedestrian Signal Head Application

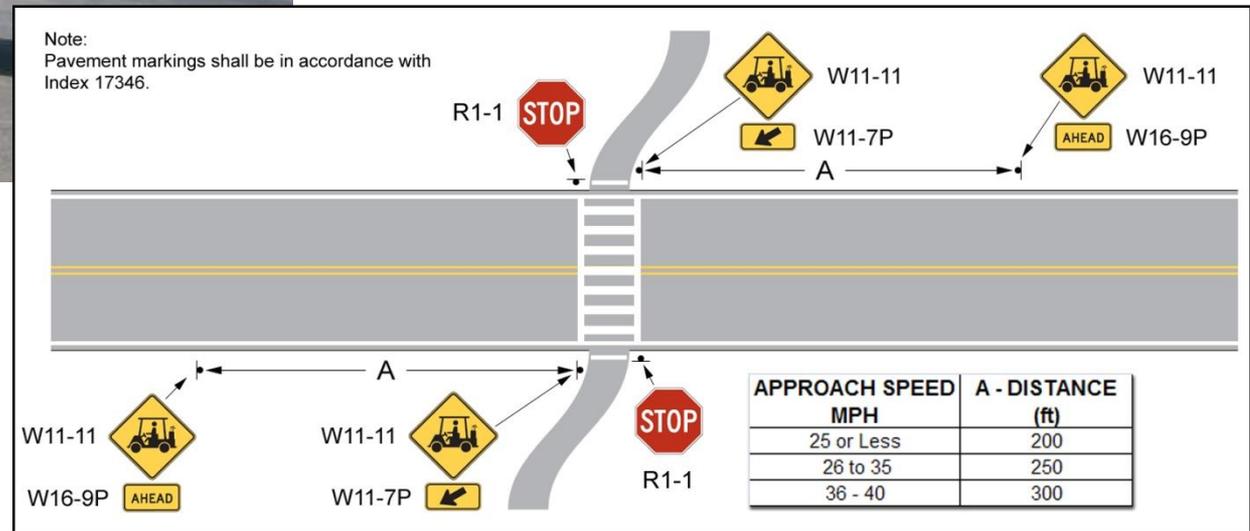
Chapter 4: Markings

- ◆ 4.1-Crosswalks in Heavy Pedestrian Concentration Areas
- ◆ 4.2-Pavement Word, Symbol, and Arrow Markings
- ◆ 4.3-Use of Blue Raised Pavement Markers to Identify Fire Hydrants
- ◆ 4.4-Roundabout Markings



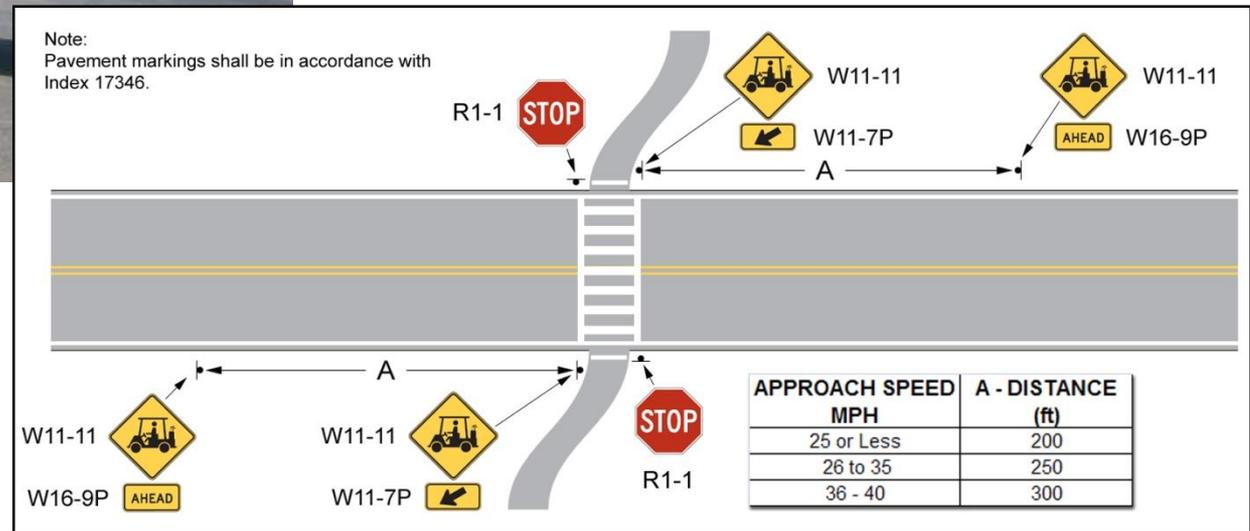
Chapter 5: Specialized Operational Topics

◆ 5.1-Golf Cart Crossing and Operation on the State Highway System



Chapter 5: Specialized Operational Topics

◆ 5.1-Golf Cart Crossing and Operation on the State Highway System



Chapter 6: Safe Mobility For Life

- ◆ In April 2007, to support the Department's aging road user program, "Safe Mobility for Life" sections in this chapter were rescinded and incorporated directly into other sections of the TEM.
 - ✓ Change made to encourage use of these roadway countermeasures that benefit older drivers to help prepare our roadway system for increases to our aging population.

- ◆ Section 6.1: Florida's Elder Road User Program
 - ✓ Direct link to program website.

- ◆ Section 6.2: Warning, Stop, and Yield Sign Size to Accommodate the Elder Roadway User in Florida
 - ✓ Section 2.39 (Warning, Stop, and Yield Sign Sizes)

- ◆ Section 6.3: Intersection Guide Signs
 - ✓ Section 2.37 (Advance Street Name Signs)

Chapter 7: Technology

- ◆ 7.1-Approved Product List Certification and Approval Process
 - ✓ “Describe the Department’s APL product certification and approval process to applicants, suppliers, and end-users.”
 - ✓ http://www.dot.state.fl.us/trafficoperations/Traf_Sys/TERL-PCH.shtm

Florida Department of Transportation
Traffic Engineering Research Laboratory

Product Certification Handbook



Florida Department of Transportation
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Traffic Engineering Research Laboratory
2612 Springhill Road
Tallahassee, FL 32305
(850) 921-7350
www.dot.state.fl.us/trafficoperations/Traf_Sys/Traf_Sys.shtm

Index

- ◆ Covers Statutes, Rules and Procedures pertaining to Traffic Engineering Manual
 - ✓ A.1.1 Statutes
 - Chapter 20
 - Chapter 258
 - Chapter 267
 - Chapter 316
 - Chapter 334
 - Chapter 479
 - Chapter 553
 - Chapter 1006
 - ✓ A.1.2 Active Traffic Engineering and Operations Procedures and Policy Statements
 - ✓ A.1.3 Rules
 - 14-15.010
 - 14.15.012
 - 14.51

Possible Future Changes

- ◆ Section 2.41 – Dynamic Messages for Express Lanes
- ◆ Section 2.11 – Bicycle Warning Signs
- ◆ Section 4.4 - Roundabouts

Become Aware

- ◆ Current registered holders of the TEM receive electronic updates when approved changes have been made.
- ◆ **TO REGISTER** for updates please email:
 - ✓ Gail.Holley@dot.state.fl.us



Questions??

