



Complete Streets Where We Are Going

Paul Hiers, P.E., State Roadway Criteria Administrator
DeWayne Carver, AICP, State Bicycle/Pedestrian Coordinator
Florida Department of Transportation
Roadway Design Office

Complete Streets Policy



- “right size” our streets to fit their contexts
- Promotes more cost-effective solutions to transportation issues



COMPLETE STREETS IMPLEMENTATION PLAN

M2D2: Multimodal Development and Delivery

December 2015



The Florida Department of Transportation and Smart Growth America



- Four Workshops summer of 2015
- Prepared by Smart Growth America working with FDOT
- It's a road map, not a vehicle!
- Provides a “common vision” within the agency
- Requires a multi-disciplinary approach...



Smart Growth America
Making Neighborhoods Great Together



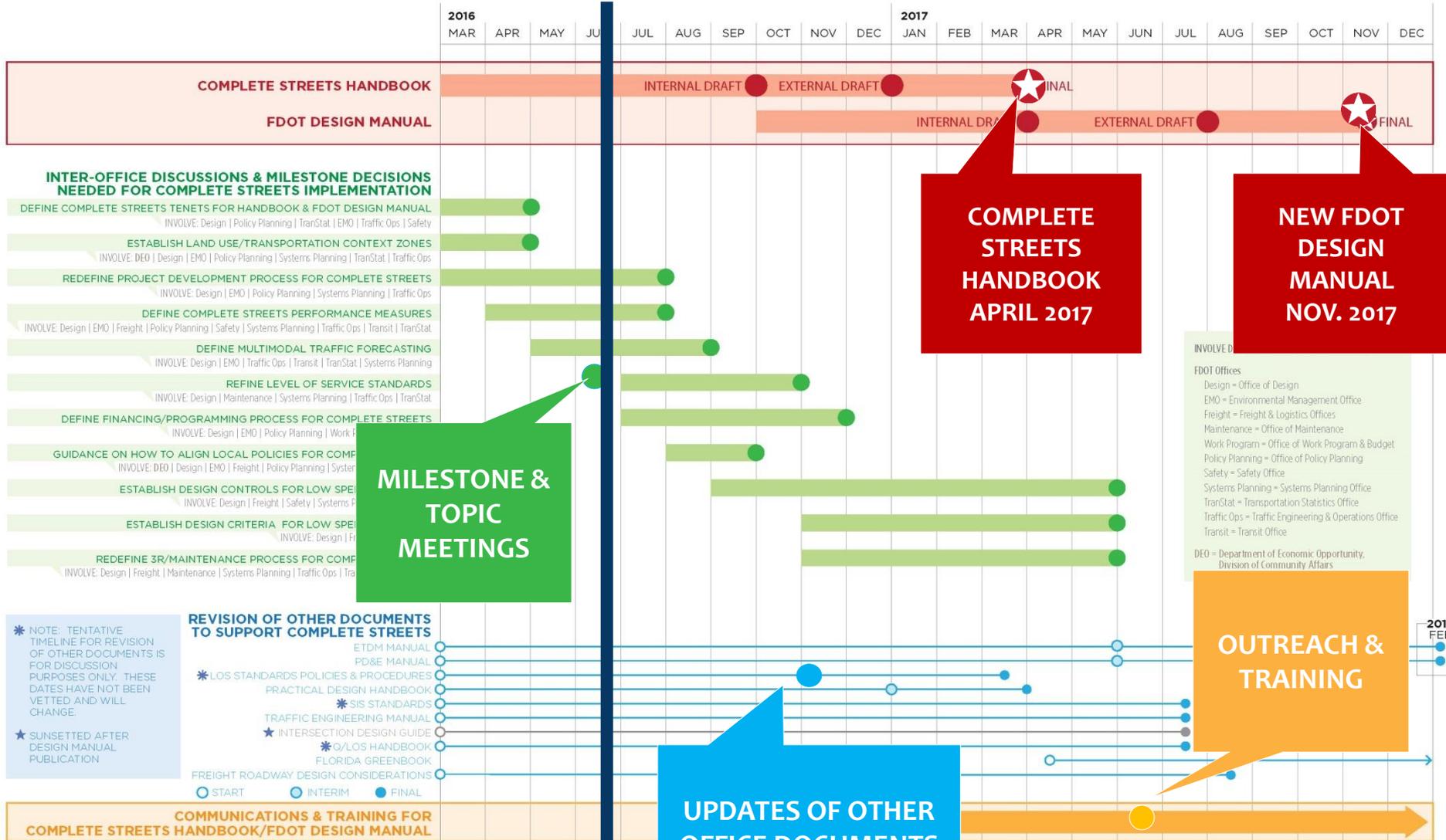
Implementation Plan

Five-part Implementation Framework:

- I. Revising guidance, standards, manuals, policies, and other documents
- II. Updating decision-making processes
- III. Modify approaches for measuring performance
- IV. Managing internal and external communication and collaboration during implementation
- I. Providing ongoing education and training



FDOT DESIGN TRAINING EXPO DECISION FRAMEWORK & TIMELINE FOR COMPLETE STREETS IMPLEMENTATION

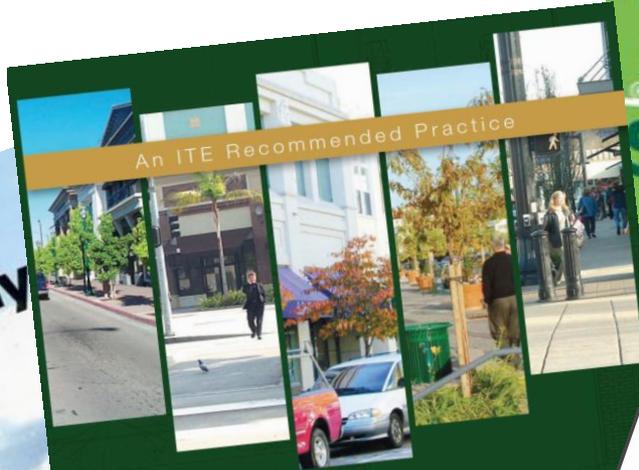


APPROVED BY EXECUTIVE LEADERSHIP 2/18/16
REVISED DRAFT 5/6/16



Flexibility in Highway Design

U.S. Department of Transportation
Federal Highway Administration



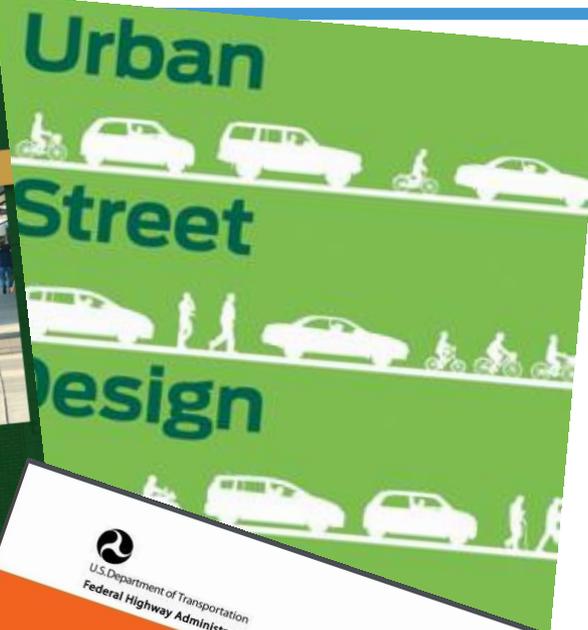
An ITE Recommended Practice

Designing Walkable Urban Thoroughfares:
A Context Sensitive Approach



Institute of Transportation Engineers

CONGRESS FOR THE NEW URBANISM



Urban Street Design



U.S. Department of Transportation
Federal Highway Administration

GUIDEBOOK FOR DEVELOPING PEDESTRIAN & BICYCLE PERFORMANCE MEASURES



MARCH 2016

ITE/CNU Context Zones

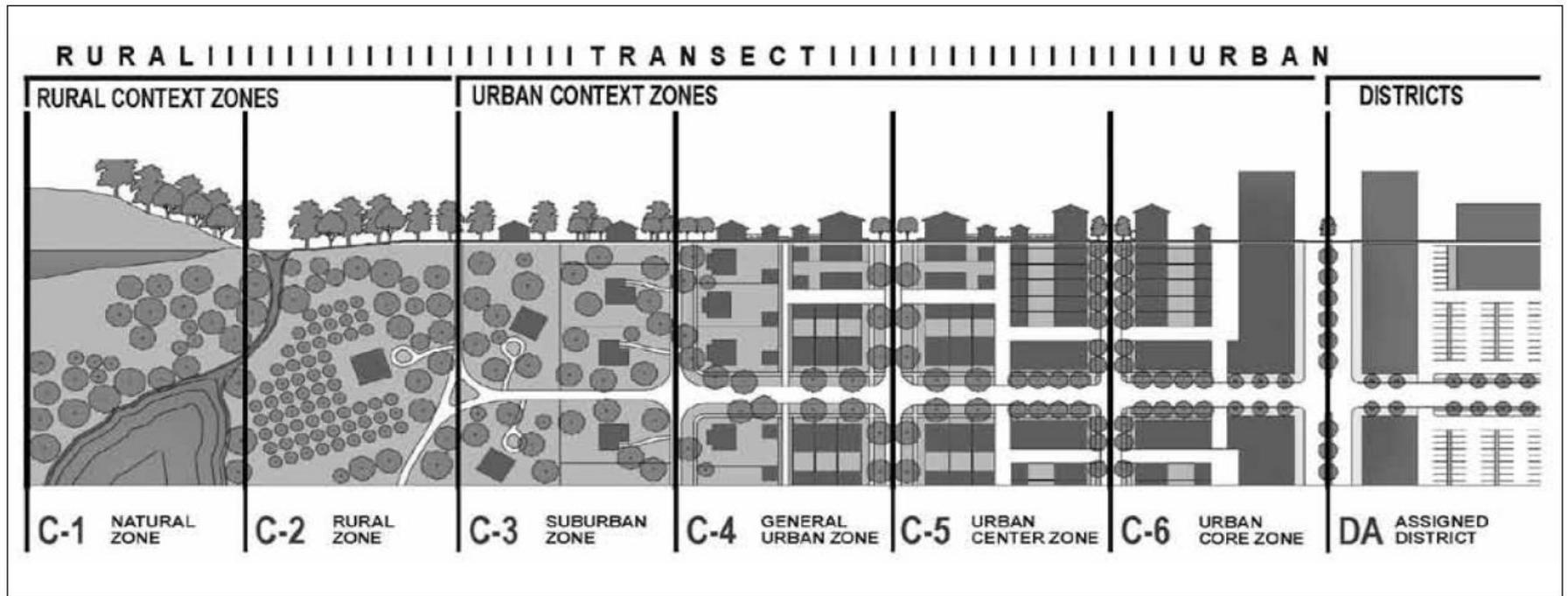


Figure 4.4 Illustration of a gradient of development patterns ranging from rural in Context Zone 1 (C-1), to the most urban in C-6. Source: Duany Plater-Zyberk and Company.

FDOT Draft Land Use Context Zones

NCHRP 15-52: DEVELOPING A CONTEXT SENSITIVE FUNCTIONAL CLASSIFICATION SYSTEM FOR MORE FLEXIBILITY IN HIGHWAY DESIGN

Context Zones	Context Classification	Description
Rural	C1	Natural
	C2	Rural
 Rural Town	C2T	Rural Town
 Suburban	C3R	Suburban Residential
	C3C	Suburban Commercial
Urban	C4	General Urban Residential
	C5	Urban Center
 Urban Core	C6	Urban Core

Context Based Design Criteria

- Currently Based on Functional Classification
 - Area (urban or rural)
 - Design Speed (low speed and high speed)
- Implementing Context Based Design
 - Context Classification
 - Design Speed (**low-low speed**, low speed and high speed)

Context Classification	Travel (feet)			Auxiliary (feet)			Continuous Left (feet)		
	Design Speed (mph)			Design Speed (mph)			Design Speed (mph)		
	≤ 35	40-45	≥ 50	≤ 35	40-45	≥ 50	≤ 35	40-45	≥ 50
C1									
C2									
C3									
C2T, C4									
C5, C6									

Design Speed?
Expected LOS?
Bike/Ped Facility Type?



SR 50 in Sumter County



Design Speed?
Expected LOS?
Bike/Ped Facility Type?



Design Speed?
Expected LOS?
Bike/Ped Facility Type?

Design Speed?
Expected LOS?
Bike/Ped Facility Type?



Design Speed?
Expected LOS?
Bike/Ped Facility Type?





& DIAMONDS

Design Speed?
Expected LOS?
Bike/Ped Facility Type?

HOLLYWOOD BLVD.

Design Speed?
Expected LOS?
Bike/Ped Facility Type?



Complete Streets Handbook

- Explains why Complete Streets is important, what it is, and FDOT's implementation
- Outlines tenets and best practices
- Directs users to the various FDOT standards and procedures to implement Complete Streets
- Published prior to completion of the new FDOT Design Manual
- Introduces various context zones language/terminologies
- Explains context-based design criteria and standards

New FDOT Design Manual (FDM)

DESIGN MEMO 16-01 TO ANNOUNCE NEW FDOT DESIGN MANUAL

- Incorporates Context-based Design Criteria
- Organized as a three part Manual
 - **Part 1 – Processes**
 - **Part 2 – Criteria**
 - **Part 3 – Plans Production**
- 5 new chapters, 7 major chapter re-writes, minor revisions to numerous other chapters
- Structured and formatted as a web-based document
- Posted November 2017 for January 2018 implementation
- There will be extensive training.

FDM Table of Contents

Plans Preparation Manual (PPM)		FDOT Design Manual (FDM)	
Current Chapter Number	Current Chapter Name	Proposed Chapter Number	Proposed Chapter Name
PART 1 - DEVELOPMENT / PROCESSES			
<i>Introduction</i>			
--	Introduction	100	Intro/Complete Streets ** - Title TBD
--	--	101	Glossary of Terms *
<i>Plans Development Processes</i>			
V1, 13	Initial Engineering Design Process	110	Initial Engineering Design Process
V1, 14	Final Engineering Design Process	111	Final Engineering Design Process
V1, 15	Update Engineering Design Process	112	Update Engineering Design Process
V1, 12	Right of Way	113	Right of Way Requirements
<i>Plans Submittal, Review & Processing</i>			
V1, 16		120	
V1, 26		121	
V1, 23		122	
V1, 17		123	
V1, 18		124	
V1, 24		125	
<i>Final Plans Processing</i>			
V1, 19	Sealing Design Documents	130	Sealing Design Documents
V1, 20	Plans Processing and Revisions	131	Plans Processing and Revisions
<i>Lump Sum Projects</i>			
V1, 22	Lump Sum Project Guidelines	140	Lump Sum Projects
PART 2 - DESIGN CRITERIA			
<i>Context Based Design</i>			
V1, 1	Design Controls	200	Context Based Design **
<i>Roadway Geometrics</i>			
V1, 2	Design Geometrics and Criteria	210	Arterials and Collectors **
		211	Limited Access Facilities *
V1, 25	Florida's Design Criteria for Resurfacing, Restoration and Rehabilitation (RRR) of Streets and Highways	212	Resurfacing, Restoration and Rehabilitation (RRR) **
--	--	213	Intersections *

CURRENT LOCATION AND NAME

NEW LOCATION AND NAME

Plans Preparation Manual (PPM)		FDOT Design Manual (FDM)	
Current Chapter Number	Current Chapter Name	Proposed Chapter Number	Proposed Chapter Name
V1, 4	Roadside Safety	214	Roadside Safety ***
V1, 3	Earthwork <i>(info in Ch will be incorporated in Part 3)</i>	--	--
V1, 21	Transportation Design for Livable Communities <i>(this chapter will be incorporated throughout)</i>	--	--
<i>Other Facilities</i>			
V1, 6	Railroad Crossing	220	Highway-Railroad Crossing ***
V1, 8	Bicycle and Public Transit Facilities	221	Bicycle and Pedestrian Facilities **
V1, 9	Landscaping and Aesthetic Features	222	Landscape and Community Aesthetic Features ***
V1, 5	Utilities	223	Utilities
--		224	Public Transit Facilities *
<i>Traffic Design</i>			
V1, 7	<i>(this chapter will be separated into 4 separate chapters)</i>	230	Signing and Pavement Marking *
		231	Lighting *
		232	Signalization *
		233	Intelligent Transportation Systems (ITS) *
<i>Temporary Traffic Control</i>			
V1, 10	Transportation Management Plan	240	Transportation Management Plan ***
<i>Drainage & Permits</i>			
V1, 27	Hydraulic Data and Agency Permits	250	Hydraulic Data and Agency Permits
V1, 11	Stormwater Pollution Prevention Plan	251	Stormwater Pollution Prevention Plan
<i>Structures</i>			
V1, 28	Shop and Erection Drawings	260	Shop and Erection Drawings
V1, 29	Structural Supports for Signs, Luminaires, and Traffic Signals	261	Structural Supports for Signs, Luminaires, and Traffic Signals
V1, 30	Retaining Walls	262	Retaining Walls
V1, 31	Geosynthetic Design	263	Geosynthetic Design
V1, 32	Noise Walls and Perimeter Walls	264	Noise Walls and Perimeter Walls
V1, 33	Reinforced Concrete Box and Three-Sided Culverts	265	Reinforced Concrete Box and Three-Sided Culverts
V1, 34	Monitor Existing Structures <i>(info in Ch will be incorporated in Part 3)</i>	--	--

WHAT IS BEING DELETED, MOVED, AND ADDED

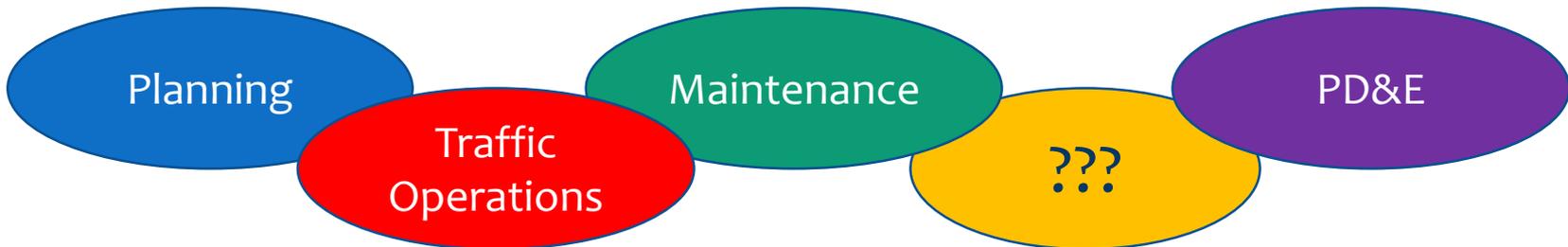
Other FDOT Documents to be Revised

- ▶ ETDM Manual
- ▶ PD&E Manual
- ▶ LOS Standards Policies & Procedures
- ▶ Practical Design Handbook
- ▶ SIS Standards
- ▶ Traffic Engineering Manual
- ▶ Intersection Design Guide
- ▶ Q/LOS Handbook
- ▶ Florida Greenbook
- ▶ Freight Roadway Design Considerations

Central Office Core Team consisting of representatives from the offices responsible for these documents are collaborating on the development of the CS Handbook

Stops along our route...

- How are Context Zones determined?
- How determine context classification (scoping)?
- What roles are played by...



- Where does the local/regional government fit in?
- How do we measure our success?
- How will the funding work?



Complete Streets Implementation

Complete Streets Implementation

Welcome



Topics

[Complete Streets - Implementation Plan](#)

[Complete Streets Policy](#)

[Complete Streets Timeline](#)

Welcome

The Florida Department of Transportation (FDOT) Complete Streets Policy and new Complete Streets Implementation Plan will let us provide safer, context-sensitive roads by putting "the right street in the right place". The Policy and the Implementation Plan can both be accessed from the links to the left. New materials and updates will be posted here as they become available.

QUESTIONS



www.FLcompletestreets.com

Paul Hiers, P.E.
paul.hiers@dot.state.fl.us

DeWayne Carver, AICP
dewayne.carver@dot.state.fl.us