



FACILITIES DEVELOPMENT MANUAL

Wisconsin Department of Transportation

T407

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Revise and rewrite 4-5 (Highway Systems - System Alterations) and add Attachments 1.1 to 1.9, 5.1 to 5.5 and 15.1 to 15.7 to provide new guidance and forms for state truck highway alterations.

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Revise 8-10-30.4 (Non-Labor Direct Costs) to add language specifying travel policy.

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Revise 8-20-5.1 (Design and Construction Engineering Services) to modify language to clarify when the Notice to Proceed may be sent and clarify that project IDs on construction engineering contracts may be authorized at different times. Remove former sub-section 8-20-5.2 (Construction Engineering Revised Authorization to Begin) and revise remaining heading numbers.

Revise 8-20 Attachments 5.1, 5.2 and 5.3 to submit electronic copy of form to Division of Transportation Investment Management (DTIM).

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Add subsection 11-20-1.2.1.1 (Gutter Cross Slope) to guide designers with selection of gutter cross slope for all curb and gutter types. A 4% gutter cross slope is the new standard slope (refer to SDD 8d1). Label gutter cross slope in contract plans as described in this subsection.

[Section 11-25](#) Intersections at Grade
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[Section 11-46](#) Complete Streets

Revise 11-46-10.2 (Curb Ramps and Detectable Warning Fields) guidance relating to Type 2 curb ramps and the typical type 2 curb ramp figure installation guidance.

Revise 11-46-10.2.1 ((Detectable Warning Field Placement) title (formerly titled Truncated Domes) and guidance contents.

Add subsection 11-46-10.2 (Radial Detectable Warning Fields). Radial detectable warning fields are applicable to various curb ramp applications and replaces staggered detectable warning field applications.

Revise 11-46-10.3 (Curb Ramp Design Considerations) to reference 4% gutter cross slope with new construction, reconstruction and pavement replacement projects.

Revise 11-46 Attachment 10.1 (Legal Crosswalk and Crosswalk Closure Figures) to update the figures.

Section 11-50 Traffic Control

Revise 11-50-1.2.2 (Bureau of Traffic Operations (BTO)) review and approval guidance.

Add 11-50-5.4.1 (WisTMP System) to develop a system for developing, routing, approving, and storing TMPs.

Revise 11-50-5.7 (TMP Approval Process) routing process.

Revise 11-50-5.7.6 (Post Construction Evaluation) guidance.

Revise 11-50-5.11.5 (Corridor/Network Management Strategies) to contact BTO when considering movable traffic barrier systems.

Revise 11-50-5.12.1 (Multi-Trip Vehicle Dimension Considerations) to change the width from 14 feet to 15 feet.

Revise 11-50-5.12.2 (Wind Tower Corridor Considerations) to route "Wind Tower Base" through Autoturn to confirm tracking in work zones.

Add 11-50-5.12.3 (High Clearance Routes) to provide information on the statewide high clearance routes for oversized loads up to 20 feet in height.

Revise 11-50 Attachments 5.9 to 5.19 (Transportation Management Plan (TMP) Strategy Matrixes) to update the TMP strategies.

Revise 11-50-20.7.2 (Modification of Type I and Type II Signs) to measure one sign covering per location.

Revise 11-50-20.7.8 (Traffic Control Quantities) guidance regarding the bid item traffic control (Item 643.5000).

Section 11-52 Traffic Engineering and Operations

Section 11-55 Special Features

Revise 11-55 Attachment 20.1 to reference fatigue criteria guidance found in FDM 15-1-20.10 instead of in standard spec 461.2.9.

Section 11-60 Detours

Chapter 12: Right-of-Way Plat Development

Section 12-1 General

Revise 12-1-5.2 (Easements) to revise guidance.

Section 12-5 Making Right-of-Way Determinations

Section 12-10 Transportation Project Plat Preparation

Revise 12-10-15.2 (Amendment Plat) guidance related to TPP amendments.

Section 12-15 Traditional Right-of-Way Plat Preparation

Chapter 13: Drainage

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Chapter 14: Pavements

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Revise FDM 14-10-10.7 ((Filling Joints) formerly titled "Sealing") to add guidance for filling joints on low speed urban concrete pavements.

- [Section 14-15](#) Pavement Type Selection
- [Section 14-25](#) Pavement Rehabilitation

Chapter 15: Plan Preparation

- [Section 15-1](#) Standards

Revise 15-1 Attachment 5.4 (Sample Detail Sheet (Construction Details)) example overhead sign supports to show how designers should show fatigue load categories on their detail sheets.

Revise 15-1-20.10 (Permanent Signing) to specify that designers must show the fatigue design criteria for overhead sign supports as a bullet point on their details.

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Revise Attachment 1.2 (Central Office PS&E Contacts) and Attachment 1.5 (Proposal Preparation Process Schedule) with updated information.

[Section 19-5](#) Estimates

Revise 19-5-5.7.2 (Payment of Plan Quantities) estimating guidance.

[Section 19-7](#) Bid Items

Revise 19-7-1.1 (Bid Items - Updated/Newer Bid Items) guidance to reflect 2018 bid item updates.

Revise 19-07-1.2 (Usage Guidance for Other Items) guidance for hot mix asphalt cold weather paving.

[Section 19-10](#) PS&E Transmittal and Composition

Revise 19-10-15.1.2 (Plan Letter - Introduction) guidance regarding anticipated all work completion date.

[Section 19-15](#) Special Provisions

Revise 19-15-1 (Special Provisions - Introduction) to reiterate that materials specified within special provisions are covered under the Buy America Provision.

[Section 19-21](#) Quality Management Program

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[Section 19-25](#) Local Force Account Agreements

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Revise FDM 19-40 Attachment 1.2 (Standard Detail Drawings (Examiner's List)) with updated information.

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