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Chapter 2: Project Management

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Section 2-5 ............ Program vs. Project Management
Section 2-10 ............ Performance Management
Section 2-15 ............ Project Integration Management
Section 2-20 ............ Project Type - Design/Planning
Section 2-25 ............ Design Phase
Section 2-30 ............ Construction Phase

Chapter 3: Facilities Development Process

Section 3-1 ............ Process Overview
Section 3-4 ............ Environmental Scoping, Evaluation and Documentation
Section 3-5 ............ Improvement Concepts

- Revise 3-5-5.2.1 (Federal Aid Requirements and WisDOT Procedures) to change Traffic Operations Infrastructure Plan (TOIP) items to Intelligent Transportation Systems (ITS) equipment.
- Revise 3-5-5.3.4 (Other) to change guidance title and information from Traffic Operations Infrastructures Plan (TOIP) Items to Intelligent Transportation Systems (ITS) Equipment.
- Revise 3-5-10.7 (Documentation for LFA Local and State Agreements ≤ $5,000 and > $5,000) to add guidance and contact information for LFA - State project agreements ≤5000 and LFA - State > $5000.
- Revise 3-5 Attachment 10.1 (A Policy on Construction of State and Federal-Aid Highway Projects by Forces and Equipment of Counties or Other Local Governmental Units) to change threshold value from $25,000 to $50,000.
- Revise 3-5 Attachment 10.6 (Correspondence/Memorandum (State System)) to clarify title of document.
- Removed Attachment 10.7 (Letter of Approval for Programmatic Cost Effectiveness Finding) since the information was out of date.

Section 3-10 ............ Scheduling and Programming
Section 3-15 ............ Complex or Unique Projects
Section 3-20 ............ Local Program Related Topics

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Section 4-5 ............ System Alterations
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Chapter 5: Agency Coordination

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Section 5-2 U.S. Department of Transportation
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Section 6-5 Process Development
Section 6-10 Public Involvement Meetings
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Chapter 7: Access Control

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Section 7-5 Access Management System Plan
Section 7-10 Methods of Control
Section 7-15 Administrative Access Control (Control by Section 84.25)
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Section 7-25 STH Connection Permitting
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Section 7-35 Corridor Access Management
Section 7-40 Freeway/Expressway Designation Statute 84.295
Section 7-45 Interstate Access Points
Section 7-50 Land Division Review
Section 7-55 Scenic Easements

Chapter 8: Consultant Services

Section 8-1 Introduction
Section 8-5 Securing Consultant Services

Revise 8-5-3.2 (Employment of Current or Former WisDOT Employees by Consultants) to rewrite the guidance.

Revise 8-5-15.3 (Interviews) to revise the design contract threshold value from $1,000,000 to $1,300,000 and revise the number of firms from five or more to three.

Section 8-10 Contract Negotiation
Section 8-15 Contracts
Section 8-20 Contract Procedures
Section 8-25 Contract Management

Chapter 9: Surveying and Mapping

Section 9-1 Introduction
Section 9-5 Policies
Section 9-10 Public Relations
Section 9-20 ..........Spatial Reference Systems
Section 9-25 ..........Monumentation
Section 9-30 ..........Real Time Kinematic (RTK) Surveys
Section 9-35 ..........Horizontal Control - Traverse
Section 9-40 ..........Vertical Control
Section 9-43 ..........Planning and Scheduling
Section 9-45 ..........Geospatial Projects
Section 9-50 ..........Alignments - Reference Line With Stationing
Section 9-55 ..........Drainage Structure Surveys
Section 9-60 ..........Structure Surveys
Section 9-65 ..........Cross Sections/Digital Terrain Models (DTMs)
Section 9-70 ..........Topography
Section 9-75 ..........Right-of-Way
Section 9-80 ..........Survey Mathematics

**Chapter 10: Erosion Control and Storm Water Quality**

Section 10-1 ..........General Introduction
Section 10-5 ..........Developing An Erosion Control Plan
Section 10-10 ........Erosion and Sediment Control Devices
Section 10-15 ........Appendix
Section 10-25 ........Stormwater Quality
Section 10-30 ........Stormwater Quality Analysis
Section 10-35 ........Stormwater Control Measure Selection
Section 10-40 ........Maintenance Best Management Practices (BMPs)

**Chapter 11: Design**

Section 11-1 ..........Introduction
Section 11-2 ..........Alternative Contracting
Section 11-3 ..........Community Sensitive Design
Section 11-4 ..........Reports

Revise 11-4-10.4.3 (Content) to add a Design Study Report template for perpetuation projects.

Revise 11-4 Attachments to add attachment 10.4 (Perpetuation Design Study Report Template) and renumber remaining attachments.

Section 11-5 ..........General Design Considerations
Section 11-10 ..........Design Controls
Section 11-15 ..........Cross-section Elements for Rural Highways and Freeways
Section 11-20 ..........Cross Section Elements for Urban Highways
Section 11-25 ..........Intersections at Grade

Revise 11-25-3.1 (Intersection Control Evaluation (ICE)) guidance.

Revise 11-25-3.1.1 (ICE Project Triggers) guidance.

Add 11-25-3.1.1.2 (Local Projects and ICE) guidance.
<table>
<thead>
<tr>
<th>Section 11-25 ..........</th>
<th>Guidance and Criteria for Traffic Control Options and Intersection/Interchange Types guidance.</th>
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<td>Section 11-25 ..........</td>
<td>Safety Considerations guidance.</td>
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<td>Existing Crash Information guidance.</td>
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<td>Section 11-25 ..........</td>
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<td>Section 11-25 ..........</td>
<td>ICE Amendments guidance.</td>
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<td>Phase II: ICE Worksheet guidance.</td>
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<td>ICE Submittal Checklist guidance.</td>
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<td>Low Volume, Non-STH Side Road Approaches guidance.</td>
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<td>Section 11-26 ..........</td>
<td>Approach Markings guidance at roundabouts.</td>
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<td>Section 11-26 ..........</td>
<td>Example Pavement Markings for Typical Designs guidance for roundabouts.</td>
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<td>Section 11-26 ..........</td>
<td>Roundabout Pavement Marking Bid Item and Product Type guidance.</td>
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<td>Resurfacing, Restoration and Rehabilitation (3R) Projects for Highways other than Interstate</td>
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<td>Other Elements Affecting Geometric Design</td>
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<td>Section 11-46 ..........</td>
<td>Bicycle and Pedestrian Accommodations</td>
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<td>Section 11-50 ..........</td>
<td>Traffic Control</td>
</tr>
<tr>
<td>Section 11-50 ..........</td>
<td>TMP Strategies Matrix Overview guidance and delete former sub-sections 5.11.2 to 5.11.9.</td>
</tr>
<tr>
<td>Section 11-50 ..........</td>
<td>Mitigation Contracts guidance for various mitigation contracts.</td>
</tr>
<tr>
<td>Section 11-50 ..........</td>
<td>Pavement marking guidance for roundabouts.</td>
</tr>
<tr>
<td>Section 11-50 ..........</td>
<td>Roundabout Pavement Marking Bid Item and Product Type guidance.</td>
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**Chapter 12: Right-of-Way Plat Development**

**Section 12-1**: General
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**Section 12-5** ..........Making Right-of-Way Determinations
**Section 12-10** ..........Transportation Project Plat Preparation
**Section 12-15** ..........Traditional Right-of-Way Plat Preparation

**Chapter 13: Drainage**

**Section 13-1** ..........Drainage Practice
**Section 13-5** ..........Field Work
**Section 13-10** ..........Hydrology
**Section 13-15** ..........Hydraulic Design of Culverts
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**Chapter 14: Pavements**

**Section 14-1** ..........General
**Section 14-5** ..........Base Course
**Section 14-10** ..........Pavement Design

| Revise 14-10-5.9.1 (Gradation Selection) to change terminology from surface mix to upper layer to match standard specification language. |
| Revise 14-10-5.9.2 (Traffic Category Selection) to delete former Table 5.2 due to redundancy, renumber remaining tables and revise guidance language. |
| Revise 14-10 Attachment 5.6 (WisDOT Allowable Mix Types) to add new bid items (4 MT 58-34V and 5 MT 58-34V). |
| Revise 14-10-15.1.1 (Interstate, US Highways or Other Roadways with Traffic Volumes > 3500 AADT) to revise guidance relating to structure approach slab. |
| Revise 14-10-15.1.2.3 (HMA Pavement with Bridge Skew ≤ 20 Degrees) to add guidance for structure approach slab. |

**Section 14-15** ..........Pavement Type Selection
**Section 14-25** ..........Pavement Rehabilitation

**Chapter 15: Plan Preparation**

**Section 15-1** ..........Standards

| Revise 15-1-1.3 (Composition) to include plan submittal information. |
| Revise 15-1-1.4 (Multiple Projects in One Plan or Multiple Project Plans within One Contract) to revise title and clarify guidance. |
| Revise 15-1-4.2 (Design Process) to delete project scoping from the preliminary plan process and revise guidance. |
| Revise 15-1-4.3 (Content) to change the guidance and name of the preliminary plan worksheet used during project scoping to determine the contents of the preliminary plan. The information is now a checklist that could potentially be included in a preliminary plan. |
| Revise 15-1 Attachment 4.1 (Preliminary Plan Checklist) to revise title. |
| Revise 15-1-6 (Sample Plan Abbreviated Project) to delete subsections 6.1 to 6.4 (Title Sheet, Details, Estimate of Quantities and Plan Sheets) and add reference links to other sections of FDM 15-1. |
| Revise 15-1-10 (Title Sheets) to revise information for title sheets, project title, project numbers, order of sheets, net length of center line, and coordinates subsections to revise guidance. |
Add 15-1-12 (General Notes, Railroad, and Contracts Sheet) to add guidance for the general notes, abbreviations, utilities/railroads listing, DNR Liaison, Standard Detail Drawings List.

Add 15-1-14 (Project Overview) to add guidance.

Add 15-1-15 (Typical Section Sheet) to revise guidance for typical section sheet and sign plates and/or sign details subsections.

Revise FDM 15-1-20 (Detail Sheet) to update guidance.

Revise 15-1-20.10 (Permanent Signing) since a majority of the information has moved to FDM 11-50-55 (Signing) and FDM 11-55-20 (Overhead Sign Structures).

Revise 15-1-35 (Plan and Profile Sheet) to update guidance.

| Section 15-5 | Methods |
| Section 15-10 | Review |

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| Section 17-25 | Active Warning Device Projects |
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| Section 18-1 | Introduction |
| Section 18-5 | Agency Responsibilities and Duties |
| Section 18-10 | Project Development Process |
| Section 18-15 | Utility Company Rights and Obligations |
| Section 18-20 | Typical Processing of a Utility Project |

**Chapter 19: Plans, Specifications, and Estimates**

| Section 19-1 | Introduction |
| Section 19-5 | Estimates |

Revise 19-5-3 (Bid Item Guidance) to reflect changes to the Standard Specifications for 2019.

| Section 19-10 | PS&E Transmittal and Composition |
| Section 19-15 | Special Provisions |
| Section 19-21 | Quality Management Program |
| Section 19-22 | Post-Advertisement Activities |
Revise FDM 19-40 Exhibit 1.2 (Standard Detail Drawings (Examiner’s List)) to update.

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Section 20-5.......Major Laws, Regulations and Agreement Documents
Section 20-10......Roles and Responsibilities in the Environmental Documents Process
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Section 20-20......Categorical Exclusion Documents
Section 20-25......Environmental Assessments
Section 20-30......Environmental Impact Statements
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Section 22-30......Ambient Air Quality
Section 22-35......Prediction Techniques
Section 22-40......Nonattainment Areas
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Section 23-5.......Laws, Regulations and Policy Pertaining To Noise Analysis
Section 23-10......Project Analysis
Section 23-15......Factors Influencing Noise Levels
Section 23-20......Existing Noise Levels
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Section 24-5 .......... Aquatic Systems
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Section 25-5 .......... Impact Categories
Section 25-10 .......... Impact Identification
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Section 26-20 .......... Compensation Regarding Historic Preservation
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