DelDOT Manuals, Guides, and Other Documents

2021 Update

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Manuals, Guides, and Other Documents

• Standard Specifications – **COMPLETED**
• Standard Construction Details – **COMPLETED**
• Pipe Inspection and Remediation Guide – **COMPLETED**
• Road Design Manual – **UPDATING**
• PAS Manual – **UPDATING**
• Team Support Manual – **NEW**
• Materials Manual – **UPDATING**
• Development Coordination - **UPDATING**
• Survey Guidebook – **UPDATING**
• Traffic Design Manual – **UPDATING**
• Lighting Policy – **COMPLETED**
• Project Delivery Selection Process Manual - **COMPLETED/NEW**
• Quality Manual – **UPDATING**

• Bridge Design Manual - **UPDATING**
• Bridge Inspection Manual - **COMPLETED**
• Bridge Element Inspection Manual (BEIM) - **COMPLETED**
• Bridge Load Rating Manual (BLRM) – **NEW**
• Bridge Modeling & Forecasting Manual – **NEW**
• New Wiki Pages – **NEW/UPDATING**
  - CADD
  - ProjectWise
  - ES2M Design Guide
• September 2020

• Major effort to remove the passive voice and replace it with the active voice in the imperative mood.

• Make document more clear and concise.

• Projects not at or beyond SF Plans by November 1, 2020 will use the 2020 Standard Specifications.
• September 2020
• Guardrail and Barrier MASH Compliance
• Clean up dimensions and notes to be consistent with specifications
• Projects not at or beyond SF Plans by November 1, 2020 will use the 2020 Standard Details.
Pipe Inspection and Remediation Guide

• Developed to provide pipe video inspection, acceptance, and remediation guidance
• Compiles industry best practices and does not have contract governance unless specifically cited.
• Inspection procedures, equipment, deliverables
• Inspection and evaluation of defects in RCP, Thermoplastic, and CMP
• Available on DelDOT Publications Page and linked from the Construction Manual Wiki
Re-write Manual, last revision to the Manual was in 2011

Surveyed RDM users

- Outdated references to other documents
- Delaware specific design criteria
- Adopt national manuals, standards, and publications
- Streamline the document
- Relocate some other guidance/examples to DRC

Goal: Completion by end of 2021
Pedestrian Accessibility Standards (PAS)

- Re-write PAS Manual to remove ambiguity, improve clarity, and ease of understanding for users.
- Establish minimum standards compliant with federal requirements.
- Provide design guidance to exceed minimum requirements.
- Refine, develop, and memorialize RPE (Design, Construction, Administrative) and ADA Inspection and Acceptance Processes.
- Goal: Completion by Summer 2021
• Outline the basic processes and requirements for developing and reviewing R/W plans.

• Manual to include...
  • Outline the services that Team Support offers
  • Chart to outline the plan review process;
  • Description of Standards and Formats for documenting and submitting survey and property ownership and right-of-way research;
  • Guide to available records and resources within DelDOT and the State of Delaware;
  • Right-of-way plan presentation;
  • Templates and samples of various agreements.
  • Concurrence Meetings Requirements
  • Recordation of right-of-way dedications

• Goal: Draft Manual Summer 2021
• Early stages of re-write
• Provide guidelines for material sampling, testing, and analysis for M&R staff and suppliers.
• Design and Construction can use it as a reference to understand the tests and procedures
• First effort has been precast, nearing final draft
• Updating all of the inspection forms

• Goal: Completion 2022
• Updating Chapter 2, Traffic Analysis & Improvements

• Re-structure to reflect the PDCA and follow the current process:
  • Traffic Impact Studies (TIS)
  • Traffic Operational Analysis (TOA)
  • Transportation Improvement Districts (TID)
  • Area Wide Study (AWS)
  • Agreements: Signal, Off-Site Improvements...

• Regulatory Update and subject to public review/comment

• Goal: Fall 2021
• Evaluate content and update for current processes
• Goal: Completion July 2021
• Outlines processes and procedures for design of signals, ITMS devices, etc.

• Review of the proposed updates for a few pertinent Departmental groups in the Spring

• Goal: Completion Summer 2021
• Updated July 2020
• Prior version (2012) Lighting Design Guidelines
• Modeled similar to Traffic Design Manual
• Includes process (flowchart) to determine when lighting is warranted.
• Lighting analysis guidelines and factors to consider for photometric calculations.
Project Delivery Selection Process

• Formal structured approach for selecting project delivery methods for highway projects.
• Outlines project delivery methods (Design-bid-build, Design-Build, CM/GC), process, instructions, and evaluation worksheets.
• Provide documentation of the selection decision.
  • Forms/worksheets assist with generating Project Delivery Selection Report for each individual project considered.
• Goal: Completed/Updating March 2021
• Last update January 2009
• Updating/replace this plan to capture current practices for quality assurance and quality control
• Revise outdated links and references
• Goal: Completion Early 2022
• MASH details and other minor miscellaneous updates
  • Goal: 2021 update by early March 2021
• Finish typical details in Section 300 and adopt 9th edition of AASHTO LRFD Design Specs
  • Goal: 2022 update by early 2022
• Minor updates to Chapter 4 related to QC procedures
• Recently Updated
• Added a new bridge element and incorporated changes to the NBI Condition Rating guidance tables
• Recently Updated
New Bridge Manuals

• **Bridge Load Rating Manual (BLRM)**
  • New manual outlining bridge load rating, posting restrictions, and hauling permit review procedures.
  • Goal: Completion Spring 2021

• **Bridge Modeling and Forecasting Manual**
  • New manual describing the development of bridge deterioration models and bridge condition & budget forecasting process.
  • Goal: Completion Spring 2021
New DelDOT Wiki Pages

• CADD Wiki
  • https://caddwiki.del.dot.gov/

• Projectwise (PW) Wiki
  • https://projectwisewiki.del.dot.gov/

• Erosion, Sediment & Stormwater (ES2M) Wiki
  • https://es2mdesignguide.del.dot.gov/
Thank you!

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