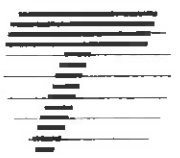



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| To: |  | <p style="text-align: center;">New York State Department of Transportation</p> <p style="text-align: center;">ENGINEERING BULLETIN</p> | <p style="font-size: 2em; font-weight: bold;">EB</p> <p style="font-size: 1.2em; font-weight: bold;">09-004</p> |
| Expires one year after issue unless replaced sooner | | | |
| <p>Title: HIGHWAY DESIGN MANUAL REVISION NO. 55 - Chapter 2, Chapter 7, and COMPREHENSIVE PAVEMENT DESIGN MANUAL REVISION NO. 3 - Chapter 3</p> | | | |
| <p>Distribution:</p> <p><input type="checkbox"/> Manufacturers (18)</p> <p><input checked="" type="checkbox"/> Local Govt. (31)</p> <p><input checked="" type="checkbox"/> Agencies (32)</p> | <p><input type="checkbox"/> Surveyors (33)</p> <p><input checked="" type="checkbox"/> Consultants (34)</p> <p><input checked="" type="checkbox"/> Contractors (39)</p> <p><input type="checkbox"/> _____ ()</p> | <p>Approved:</p> <p></p> <p>Stephen Zargham, P.E.</p> <p>Director, Design Quality Assurance Bureau</p> | <p style="text-align: right;">2/26/2009</p> <p style="text-align: right;">Date</p> |

ADMINISTRATIVE INFORMATION:

- **Effective Date.** This Engineering Bulletin (EB) is effective for all projects that will receive Design Approval on or after July 1, 2009.
- **Superseded Issuances.** The following Engineering Instructions are superseded:
 - EI 73-26 Landscape Items Which May be Included in Rehabilitation and Preservation Contracts.
 - EI 01-031 2R Projects
- **Other Superseded.** Non-Freeway 3R Standards

PURPOSE: To announce the availability of Revision No. 55 to the Highway Design Manual (HDM) and Revision No. 3 to the Comprehensive Pavement Design Manual (CPDM).

TECHNICAL INFORMATION:

HDM Chapter 2- HDM users should replace their entire existing Chapter 2 with the version dated 1/30/2009. Chapter 2 has been revised to provide U.S. Customary values for the Standards listed in Section 2.7. These standards should be used to progress future U.S. Customary designs.

Changes to HDM Chapter 2 include:

- Emphasis that the established design speed should be based on the anticipated (post construction) off-peak operating speed and should consider the impact of any traffic calming measures being proposed in accordance with HDM Chapter 25 Traffic Calming.
- Additional emphasis on the importance of a shoulder, particularly for non-motorized traffic.
- Elimination of guidance to use the minimum lane and shoulder widths.
- Requirement that a 5' (1.5 m) minimum shoulder should be used instead of no shoulder for urban arterials, collectors and streets where a wide travel lane or other provisions (e.g., multi-use path) are not included for bicyclists. A 0 to 4' (1.2 m) shoulder may be used where wide curb lanes are provided (12' (3.6 m) minimum) or separate facilities (e.g., multiuse path) are provided.
- Updated references to HDM Chapters 17 Bicycle Facility Design and 18 Pedestrian Facility Design.
- Reduction of the maximum design speed permissible for local rural roads from 60 mph (100 km/h) to 55 mph (90 km/h). 55 mph (90 km/h) was chosen as a maximum design speed since many rural

EB 09-004 Page 2 of 3

roads are not posted and have a state statutory speed limit of 55 mph. Local urban streets continue to have a maximum design speed of 30 mph (50 km/h).

- Reduction of the maximum rural arterial design speed from 70 mph (110 km/h) to 60 mph (100 km/h).

HDM Chapter 7 – HDM users should replace their entire existing Chapter 7 with the version dated 1/23/2009. Resurfacing, Restoration and Rehabilitation combines the 1R, 2R, and 3R freeway and non-freeway standards into one chapter of the HDM. Revisions to the material are based on the latest research, Department initiatives, federal requirements, and Department experience. All guidance has been updated for U.S. Customary and a metric appendix is included for active projects.

Changes to the 1R, 2R, and 3R practice include:

- Elimination of the requirement to provide an explanation to widen to the cost-effective width.
- Requiring a 4' (1.2 m) minimum paved shoulder for all rural facilities (except local roads).
- Using the safety assessment form for 3R projects.
- Including ADA curb ramps, paved shoulders, crosswalks, ped signals in the safety assessment.
- Requiring treatment of pavement edge drop-offs.
- Allowing the width of very wide travel lanes to be reduced to provide for wider shoulders.
- Adding pedestrian accommodation as a critical design element.
- Elimination of duplicate and conflicting guidance for freeway 3R projects.

CPDM Chapter 3 – CPDM users should replace the table of contents and Appendices 3C, 3D, and 3E. Appendices 3C, 3D, and 3E have been replaced with pages referencing HDM Ch 7. The SAFETAP and the 1R requirements are superseded by HDM Chapter 7. An updated table of contents for Chapter 3 and an updated Table 3-1 are included.

IMPLEMENTATION: This issuance may be applied prior to the effective date.

TRANSMITTED MATERIALS: None.

DISTRIBUTION: HDM Revision 55 will be distributed separately and contains an updated Table of Contents for the entire HDM. Consultants and others who are required to purchase the HDM may purchase Revision 55 by sending a check or money order for \$3.50 payable to the New York State Department of Transportation at the following address:

Plan Sales Unit
New York State Department of Transportation
50 Wolf Road
Albany, N.Y. 12232

This revision and the entire Highway Design Manual are available, free of charge, in a downloadable Adobe® Acrobat® format on the NYSDOT internet site. Go to the NYSDOT Home page (www.nysdot.gov/portal/page/portal/index) and click on "Site Index," "H," and "Highway Design Manual."

CPDM Revision 3 is available, free of charge, in a downloadable Adobe® Acrobat® format on the NYSDOT internet site. Go to the NYSDOT Home page (www.nysdot.gov/portal/page/portal/index) and

EB 09-004 Page 3 of 3

click on "Site Index," "C," and "Comprehensive Pavement Design Manual."

CONTACT: General questions regarding this revision should be addressed to Kevin Stanley of the Design Quality Assurance Bureau at (518) 485-8612 or via e-mail at kstanley@dot.state.ny.us. Technical questions should be addressed to Rick Wilder of the Design Services Bureau at (518) 457-5922 or via e-mail at rwilder@dot.state.ny.us.