

ERRATA for

Nebraska Department of Roads – Roadway Design Manual

June 2016

The Roadway Design Manual (*RDM*) was last updated in 2006. In the intervening years some design guidance has become obsolete, new/updated guidance has become available, offices of responsibility have changed, design procedures have been streamlined, etc. The NDOR is in the process of updating the *RDM* but, in the interim, the obsolete/incorrect guidance is being addressed through this document and a re-issued *RDM*. Page numbers cited in this document are referenced to the June 2016 Errata RDM. Deleted text will be shown in the June 2016 Errata RDM in green with a strike through (~~errata~~) and new/corrected text will be in red (**correct**). The following chapters have already been addressed:

- Contents (updated in June 2016)
- List of Exhibits (updated in June 2016)
- Chapter Three: Roadway Alignment (updated on June 17, 2011)
- Chapter Four: Intersections, Driveways and Channelization (updated on April 19, 2012)
- Chapter Six: The Typical Roadway Cross-Section (updated on February 18, 2016)
- Chapter Eight: Surfacing (updated on December 15, 2015)
- Chapter Nine: Guardrail and Roadside Barriers (updated on October 16, 2012)
- Chapter Sixteen: Pedestrian and Bicycle Facilities (added on February 8, 2016)
- Chapter Seventeen: Resurfacing, Restoration and Rehabilitation (3R) Projects (added on March 26, 2014)

The Index was updated in June 2016.

| Page | Existing Text | Corrected Text |
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| Chapter One | | |
| 1-1 | Section 1: DESIGN STANDARDS - “NDOR has also developed additional guidelines for 3R projects called the Needs Study Criteria.” | Remove this text. |
| 1-2 | Section 1: DESIGN STANDARDS – “The Federal Highway Administration (FHWA) sets forth specific policies and procedures for projects on the National Highway System (NHS), (See Section 7A).” | “The Federal Highway Administration (FHWA) sets forth specific policies and procedures for projects on the National Highway System (NHS), (See Section 5A).” |

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| Chapter One | | |
| 1-2 | <p>Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “Also included are typical cross-sections for new and reconstructed rural highways and rural roads.”</p> | Remove this text. |
| 1-2 | <p>Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “To ensure uniform practice on a statewide basis, designs not meeting the minimum design standards may not be used without a design relaxation (See Section 6).”</p> | <p>“To ensure uniform practice on a statewide basis, designs not meeting the minimum design standards may not be used without a design relaxation (See Appendix H, “Application of Standards”).”</p> |
| 1-3 | <p>Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “In addition, it is NDOR policy to use <u>EXHIBITS 1.1, 1.2 AND 1.3</u> for typical urban cross-sections. These exhibits are not in the <u>Nebraska Minimum Design Standards</u> (Reference 1.1); therefore deviation from these typical sections only requires Division Head and Traffic Engineering Division approval.”</p> | <p>Remove this text. The typical urban cross-sections are now in Chapter Six: <u>The Typical Roadway Cross-Section</u>.</p> |
| 1-3 | <p>Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “3. Determine the roadway segment’s national functional classification, (See Section 7B).”</p> | <p>“3. Determine the roadway segment’s national functional classification, (See Section 5B).”</p> |
| 1-3 | <p>Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “4. Determine if the project roadway is on the priority commercial system, (See Section 7.D).”</p> | <p>“4. Determine if the project roadway is on the priority commercial system, (See Section 5.B).”</p> |

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| Chapter One | | |
| 1-3 | Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “5. Determine whether the terrain is level or rolling, (See Section 8.D).” | “5. Determine whether the terrain is level or rolling, (See Section 6.D).” |
| 1-3 | Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “7.If changes cannot be made, follow the design relaxation procedures (See Section 6).” | “7.If changes cannot be made, follow the design relaxation procedures (See Appendix H, “Application of Design Standards”).” |
| 1-4 to 1-6 | Exhibits 1.1, 1.2 & 1.3 | Remove these exhibits, new exhibits are in Chapter Six: <u>The Typical Roadway Cross-Section</u> . |
| 1-7 | Section 2.B: <u>Resurfacing, Restoration and Rehabilitation (3R) Projects</u> | Remove this section. Refer to Chapter Seventeen: <u>Resurfacing, Restoration and Rehabilitation (3R) Projects</u> . |
| 1-8 to 1-12 | Section 3: NEEDS STUDY CRITERIA PROJECTS | Remove this section and Exhibit 1.4 , this project category is void. |
| 1-12 | 4. MAINTENANCE AND PEP PROJECTS | 3. MAINTENANCE PROJECTS |
| 1-12 | 4.A <u>Maintenance Project Policy Guidelines</u> | Section 3.A <u>Maintenance Project Policy Guidelines</u> |
| 1-12 | Previous Section 4.A: <u>Maintenance Project Policy Guidelines</u> – “4. A grade raise of maore than ½ in. (13 mm) at the edge of the pavement will require an investigation for the need of guardrail work, (See Chapter Nine: <u>Guardrail and Roadside Barriers</u> , Section 1.L).” | “4. A grade raise of maore than ½ in. (13 mm) at the edge of the pavement will require an investigation for the need of guardrail work.” |
| 1-13 to 1-14 | Previous Section 4.B: <u>Pavement Extension Plan (PEP) Policy</u> | Remove this section, this project category is void. |
| 1-15 | 5. OTHER TYPES OF PROJECTS | 4. OTHER TYPES OF PROJECTS |

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| Chapter One | | |
| 1-15 | <u>5.A Safety Improvement Projects</u> | <u>4.A Safety Improvement Projects</u> |
| 1-15 | <u>5.B Enhancement Projects</u> | <u>4.B Enhancement Projects</u> |
| 1-15 | <u>5.C Off-System Urban Projects</u> | <u>4.C Off-System Urban Projects</u> |
| 1-16 | <u>5.D Secondary Roads - Off-System Rural Projects</u> | <u>4.D Secondary Roads - Off-System Rural Projects</u> |
| 1-16 | Previous Section 5.D: <u>Secondary Roads – Off-Road System Rural Projects</u> – “The Government Affairs Division deals with all off-system rural roads for which local road standards have been developed.” | “The Local Projects Section of the Materials & Research Division deals with all off-system rural roads for which local road standards have been developed.” |
| 1-16 | Previous Section 5.E: <u>Accessibility Requirements for Handicapped Individuals</u> | Remove this section. See Chapter Sixteen: “Pedestrian and Bicycle Facilities” |
| 1-17 to 1-21 | Section 6. DEPARTURE FROM STANDARDS | Remove this section; see Appendix H, “Application of Design Standards” |
| 1-21 | 7. HIGHWAY SYSTEM CLASSIFICATION | 5. HIGHWAY SYSTEM CLASSIFICATION |
| 1-21 | <u>7.A Federal Classification</u> | <u>5.A Federal Classification</u> |
| 1-21 | Previous Section 7.A: <u>Federal Classification</u> – “NHS highways also meet national defence requirements and serve interstate and interregional travel (Reference 1.9).” | “NHS highways also meet national defence requirements and serve interstate and interregional travel (Reference 1.7).” |
| 1-21 | Previous Section 7.A: <u>Federal Classification</u> – “In addition to being a funding source for these routes, the STP specifies some set aside funds for obstacle elimination projects and for transportation enhancement activities (See Section 5.C).” | “In addition to being a funding source for these routes, the STP specifies some set aside funds for obstacle elimination projects and for transportation enhancement activities (See Section 4.C).” |

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| 1-22 | <u>7.B Nebraska National Functional Classification</u> | <u>5.B Nebraska National Functional Classification</u> |
| 1-22 | <u>7.C Nebraska State Functional Classification</u> | <u>5.C Nebraska State Functional Classification</u> |
| 1-22 | <u>Previous Section 7.C: Nebraska State Functional Classification</u> – “ <u>EXHIBITS 1.6 AND 1.7</u> identify characteristics of roadway types in rural and municipal settings, respectively.” | “ <u>EXHIBITS 1.1 AND 1.2</u> identify characteristics of roadway types in rural and municipal settings, respectively.” |
| 1-23 | Exhibit 1.6 Nebraska State Rural Highway Functional Classifications (Source: Reference 1.10) | Exhibit 1.1 Nebraska State Rural Highway Functional Classifications (Source: Reference 1.8) |
| 1-23 | Exhibit 1.7 Nebraska State Municipal Streets Functional Classifications (Source: Reference 1.10) | Exhibit 1.2 Nebraska State Municipal Streets Functional Classifications (Source: Reference 1.8) |
| 1-24 | <u>7.D Priority Commercial and Expressway Systems</u> | <u>5.D Priority Commercial and Expressway Systems</u> |
| 1-24 | 7.D.1 Priority Commercial System | 5.D.1 Priority Commercial System |
| 1-24 | 7.D.2 Expressway System | 5.D.2 Expressway System |
| 1-24 | <u>7.E 28 ft. (8.5 m) Surfaced Top System</u> | Remove this section, this project category is void. |
| 1-25 | 8. DESIGN CONTROLS | 6. DESIGN CONTROLS |
| 1-25 | Previous Section 8.: DESIGN CONTROLS – “See the <u>Nebraska Minimum Design Standards</u> , (Reference 1.1) and <u>A Policy on Geometric Design of Highways and Streets</u> , (Reference 1.11).” | “See the <u>Nebraska Minimum Design Standards</u> , (Reference 1.1) and <u>A Policy on Geometric Design of Highways and Streets</u> , (Reference 1.9).” |
| 1-25 | <u>8.A Design Year Forecast Traffic</u> | <u>6.A Design Year Forecast Traffic</u> |

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| Chapter One | | |
| 1-25 | Previous Section 8.A: <u>Design Year Forecast Traffic</u> – “The design year for 3R projects is the year of initial construction plus twelve years.” | “See Chapter Seventeen for the design year for 3R projects.” |
| 1-25 | 8.B <u>Design Speed</u> | 6.B <u>Design Speed</u> |
| 1-25 | 8.C <u>Sight Distance</u> | 6.C <u>Sight Distance</u> |
| 1-26 | 8.D <u>Terrain</u> | 6.D <u>Terrain</u> |
| 1-26 | 8.E <u>Access Control</u> | 6.E <u>Access Control</u> |
| 1-26 | 8.F <u>Lateral Obstacle Clearance</u> | 6.F <u>Lateral Obstacle Clearance</u> |
| 1-26 | 8.G <u>Urban/Rural</u> | 6.G <u>Urban/Rural</u> |
| 1-27 | 9. DESIGN ANALYSIS AND EVALUATION | 7. DESIGN ANALYSIS AND EVALUATION |
| 1-27 | 9.A <u>Capacity Analysis</u> | 7.A <u>Capacity Analysis</u> |
| 1-27 | 9.B <u>Economic Analysis</u> | 7.B <u>Economic Analysis</u> |
| 1-27 | 9.C <u>Accident Analysis</u> | 7.C <u>Accident Analysis</u> |
| 1-28 | 10. REFERENCES | 8. REFERENCES |
| 1-28 | Previous Section 10: REFERENCES | Remove References 1.6, 1.7, 1.11a & 1.11b. Update Reference 1.3 from 1996 to 2011 and Reference 1.11c from 2001 to 2011. Renumber Reference 1.8 as 1.6, 1.9 as 1.7, 1.10 as 1.8, and 1.11c as 1.9. |
| | Post Section 10: References | Add Policies DES 09-01 and DES 15-01 |