

ERRATA

Nebraska Department of Transportation

Roadway Design Manual

Chapter One: Design Standards

June 2016

① February 2017

② July/August 2017

③ February 2018

④ June 2018

⑤ August 2018

⑥ December 2018

The last update to the Roadway Design Manual (RDM) was 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 NDOT 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 December 2018 Errata RDM. Deleted text in the December 2018 Errata RDM is in green with a strike through (**errata**) and new/corrected text is in red (**correct**). The following chapters have already been addressed:

- ⑥ Contents (updated in December 2018)
- ⑥ List of Exhibits (updated in December 2018)
- 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)
- ⑤ Chapter Seven: Earthwork: (updated on August 2, 2018)
- Chapter Eight: Surfacing (updated on December 15, 2015)
- ⑥ Chapter Nine: Guardrail and Roadside Barriers (updated on December 13, 2018)
- ① Chapter Eleven: Highway Plans Assembly (updated on February 21, 2017)
- ② Chapter Twelve: Cost Estimating & Funding (updated on August 16, 2017)
- ① Chapter Fourteen: Traffic (updated on October 19, 2016)
- ③ Chapter Fifteen: Right-of-Way (updated on February 26, 2018)
- Chapter Sixteen: Pedestrian and Bicycle Facilities (added on February 8, 2016)
- Chapter Seventeen: Resurfacing, Restoration and Rehabilitation (3R) Projects (added on March 26, 2014)
- ⑥ Index (updated in December 2018)

The following items pertain to the entire manual:

- June 2016 and all subsequent changes – Chapter and EXHIBIT citations have been updated to the latest edition of the *RDM*
- ② July 2017 - All references to the **Nebraska Department of Roads (NDOR)** have been changed to the **Nebraska Department of Transportation (NDOT)**
- ⑥ December 2018 – Plan Sheet numbering updated (See Chapter Eleven, EXHIBIT 11.1)

Page	Existing Text	Corrected Text
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 2: NEBRASKA MINIMUM DESIGN STANDARDS – “Also included are typical cross-sections for new and reconstructed rural highways and rural roads.”	Remove this text.
1-3	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.”	Remove this text. The typical urban cross-sections are now in Chapter Six: <u>The Typical Roadway Cross-Section</u> .
① 1-3	Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “1. Review the engineering review statement and recommendations from the Planning and Project Development Division .”	“1. Review the engineering review statement and recommendations from PDD .”
① 1-3	Section 2: NEBRASKA MINIMUM DESIGN STANDARDS – “2. Request projected traffic data from the Traffic Analysis Section in the Planning and Project Development Division .”	“2. Request projected traffic data from the Traffic Analysis Section in the Intermodal Planning Division .”
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> .

Page	Existing Text	Corrected Text
Chapter One		
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>	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 more 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 more than ½ in. 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
1-15	5.A <u>Safety Improvement Projects</u>	4.A <u>Safety Improvement Projects</u>
③ 1-15	5.B <u>Enhancement Projects</u>	Remove this section. Refer to Chapter Twelve: <u>Cost Estimating & Funding</u> , Section 2.
③ 1-15	5.C <u>Off-System Urban Projects</u>	4.B <u>Off-System Urban Projects</u>

Page	Existing Text	Updated Text
Chapter One		
③ 1-16	<u>5.D Secondary Roads - Off-System Rural Projects</u>	<u>4.C 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	7.A <u>Federal Classification</u>	5.A <u>Federal Classification</u>
1-21	Previous Section 7.A: <u>Federal Classification</u> – “NHS highways also meet national defense requirements and serve interstate and interregional travel (Reference 1.9).”	“NHS highways also meet national defense requirements and serve interstate and interregional travel (Reference 1.7).”

Page	Existing Text	Updated Text
Chapter One		
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>
1-23	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	Previous Section 7.D.1: Priority Commercial System – “The non-expressway portion of this system is being constructed with two 12 ft. driving lanes and 10 ft. shoulders, 8 ft. of which is to be paved. In addition to the system as established, any route which has a design year traffic volume (the volume at the initial year of construction plus 20 years) of 3,000 ADT or greater will be developed with 8 ft. paved shoulders. Bridges are to be widened to shoulder width.”	“For additional information, see NDOT policy DES 17-01, “Priority Commercial System: Shoulder Width.”
1-24	7.D.2 Expressway System	5.D.2 Expressway System

Page	Existing Text	Updated Text
Chapter One		
1-24	7.E <u>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	8.A <u>Design Year Forecast Traffic</u>	6.A <u>Design Year Forecast Traffic</u>
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>

Page	Existing Text	Updated Text
Chapter One		
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, DES 15-01 and DES 17-02