

ERRATA

Nebraska Department of Transportation Drainage Design and Erosion Control Manual

Chapter Three: Stormwater Treatment

July 2017
① April 2018

② August 2018

The Drainage Design and Erosion Control Manual (*Drainage Manual*) was issued in August 2006 with Chapter Three and Appendices L through R being issued in September 2013. 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 *Drainage Manual* but, in the interim, the obsolete/incorrect guidance is being addressed through this document and a re-issued *Drainage Manual*. Page numbers cited in this document are referenced to the August 2018 Errata Drainage Manual. Deleted text in the August 2018 Errata Drainage Manual is in green with a strike through (~~errata~~) and new/corrected text is in red (**correct**). The following chapters have already been addressed:

- ② Contents (updated in August 2018)
- ② List of Exhibits (updated in August 2018)
- ① Chapter Three: Stormwater Treatment (updated on April 20, 2018)
- ② Index (updated in August 2018)

The following items pertain to the entire manual:

- July 2017 and all subsequent changes – Chapter and EXHIBIT citations have been updated to the latest edition of the *Drainage Manual*
- All references to the **Nebraska Department of Roads (NDOR)** have been changed to the **Nebraska Department of Transportation (NDOT)**
- Slope designation has been changed from horizontal to vertical (3:1) to vertical to horizontal (1:3)
- All references to Treatment Best Management Practices (BMPs) are now Stormwater Treatment Facilities (STFs)
- Links to web sites have been updated as required

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| Chapter Three | | |
| ② 3-2 | ACRONYMS AND ABBREVIATIONS – “RSU Roadside Stabilization Unit in PDD” | “RDC Roadside Development & Compliance Unit in PDD” |
| ② 3-4 | Section 2.B: <u>Total Maximum Daily Loads (TMDLs)</u> – “The Roadside Stabilization Unit (RSU) in the Project Development Division (PDD) will notify project designers of any potential TMDLs after its Roadside Development Coordination review.” | “The Roadside Development & Compliance Unit (RDC) in the Project Development Division (PDD) will notify project designers of any potential TMDLs after its Roadside Development Coordination review.” |
| ② 3-5 | Section 2.B: <u>Total Maximum Daily Loads (TMDLs)</u> – “Form A is initiated by the RSU, who places it on OnBase, and will be will be finalized by the designer prior to the “Plan in Hand Phase” (See the DPO, Ref. 3.1).” | “Form A is initiated by the RDC who places it on OnBase, and will be will be finalized by the designer prior to the “Plan in Hand Phase” (See the DPO, Ref. 3.1).” |
| ② 3-5 | Section 2.C: <u>Platte River Depletion</u> – “If a project is being constructed within this regulated area, the RSU will notify the designer during the Project Evaluation Process detailed in Section 3.” | “If a project is being constructed within this regulated area, RDC will notify the designer during the Project Evaluation Process detailed in Section 3.” |
| ② 3-6 | Section 3: PROJECT EVALUATION PROCESS – “A preliminary project evaluation will be completed for every project by the RSU using the project criteria provided in Section 3.B.” | “A preliminary project evaluation will be completed for every project by RDC using the project criteria provided in Section 3.B.” |

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| Chapter Three | | |
| ② 3-6 | <p>Section 3: PROJECT EVALUATION PROCESS – “Coordination between the RSU and Roadway Design will occur several times throughout the project schedule, as determined by the Unit Head, to address the stormwater treatment requirements.”</p> | <p>“Coordination between RDC and Roadway Design will occur several times throughout the project schedule, as determined by the Unit Head, to address the stormwater treatment requirements.”</p> |
| ② 3-7 | <p>Section 3.B: <u>Preliminary Project Evaluation</u> – “During the “Scoping Phase” (See the DPO, Ref. 3.1), the RSU will complete a Preliminary Project Evaluation and will document this review in Clarity, Environmental Sub-Object Section for each project.”</p> | <p>“During the “Scoping Phase” (See the DPO, Ref. 3.1), RDC will complete a Preliminary Project Evaluation and will document this review in Clarity, Environmental Sub-Object Section for each project.”</p> |
| ② 3-7 | <p>Section 3.B: <u>Preliminary Project Evaluation</u> – “If the Preliminary Project Evaluation determines further review is needed, the RSU will initiate Form A and will place the file on OnBase.”</p> | <p>“If the Preliminary Project Evaluation determines further review is needed, RDC will initiate Form A and will place the file on OnBase.”</p> |
| ② 3-7 | <p>Section 3.B: <u>Preliminary Project Evaluation</u> – “The RSU will utilize the following criteria when completing the Preliminary Evaluation:”</p> | <p>“RDC will utilize the following criteria when completing the Preliminary Evaluation:”</p> |
| ② 3-8 | <p>Section 3.C: <u>Final Project Evaluation</u> – “Upon completion of his/her review, the Unit Head will forward a copy of the signed Form A to the RSU and return the original to the designer.”</p> | <p>“Upon completion of his/her review, the Unit Head will forward a copy of the signed Form A to RDC and return the original to the designer.”</p> |

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| Chapter Three | | |
| ② 3-8 | <p>Section 3.D: <u>RSU Coordination with Adjacent MS4 Community</u> – “The RSU will contact the adjacent MS4 Community as part of the preliminary project evaluation during the scoping phase, notifying them of the potential for STFs on the highway project. This contact will also be used to query the MS4 Community concerning preferences in STFs. Information provided to the RSU by the MS4 Community will be provided to the designer on Form A.”</p> | <p><u>RDC Coordination with Adjacent MS4 Community</u> – “RDC will contact the adjacent MS4 Community as part of the preliminary project evaluation during the scoping phase, notifying them of the potential for STFs on the highway project. This contact will also be used to query the MS4 Community concerning preferences in STFs. Information provided to RDC by the MS4 Community will be provided to the designer on Form A.”</p> |
| ② 3-8 | <p>Section 3.E: <u>Change in Project Scope</u> – “The designer must contact the RSU Highway Environmental Program Manager as soon as possible. A re-evaluation will be completed by the RSU and Roadway Design and Form A will be updated to reflect any changes.”</p> | <p>“The designer must contact the RDC Highway Environmental Program Manager as soon as possible. A re-evaluation will be completed by RDC and Roadway Design and Form A will be updated to reflect any changes.”</p> |
| ② 3-21 | <p>Section 6.C: <u>Addressing Stormwater Run-On</u> – “If it is not feasible to treat run-on from existing impervious areas within NDOT right-of-way <u>or</u> when inseparable stormwater run-on is received from impervious areas off State right-of-way, designers will consult and coordinate with the Roadside Stabilization Unit and/or the local municipality for other on- or off-site mitigation options.”</p> | <p>“If it is not feasible to treat run-on from existing impervious areas within NDOT right-of-way <u>or</u> when inseparable stormwater run-on is received from impervious areas off State right-of-way, designers will consult and coordinate with RDC and/or the local municipality for other on- or off-site mitigation options.”</p> |
| ② 3-24 | <p>Section 7.A.4: <u>Off-Site Stormwater Mitigation</u> – “When all on-site mitigation options have been exhausted and documented, contact the RSU to determine if off-site mitigation is feasible.”</p> | <p>“When all on-site mitigation options have been exhausted and documented, contact RDC to determine if off-site mitigation is feasible.”</p> |

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| ② 3-24 | <p>Section 7.A.4.a: On-Site Stormwater Mitigation – “On-site and off-site mitigation will require the concurrence from the Roadside Stabilization (RSU) <u>and</u> Roadway Design Hydraulics Units to verify that treatment is not practical within the TDA and/or within the project limits. If off-site mitigation is justified, RSU will note the area requiring treatment and account for that treatment in a separate stormwater treatment facility within the community’s NDOT MS4 boundary.”</p> | <p>“On-site and off-site mitigation will require the concurrence from RDC <u>and</u> Roadway Design Hydraulics Units to verify that treatment is not practical within the TDA and/or within the project limits. If off-site mitigation is justified, RDC will note the area requiring treatment and account for that treatment in a separate stormwater treatment facility within the community’s NDOT MS4 boundary.”</p> |
| ② 3-26 | <p>Section 7.B.2: STF Selection Guidance – “The Unit Head will than forward a copy of the Form B to the RSU for review.”</p> | <p>“The Unit Head will than forward a copy of the Form B to RDC for review.”</p> |
| ② 3-28 | <p>Section 7.B.2.c: Design STF for WQV – “Contact the Roadway Design Hydraulics Engineer and the RSU for assistance with designing STFs for water quality requirements other than the 0.5-inch WQV goal (example: TMDL requirements).”</p> | <p>“Contact the Roadway Design Hydraulics Engineer and RDC for assistance with designing STFs for water quality requirements other than the 0.5-inch WQV goal (example: TMDL requirements).”</p> |
| ② 3-29 | <p>Section 7.B.2.e: Other Treatment Options or Project Alternative – “The designer is also encouraged to consult with the Roadside Stabilization Unit and the Roadway Design Hydraulics Section for assistance.”</p> | <p>“The designer is also encouraged to consult with RDC and the Roadway Design Hydraulics Section for assistance.”</p> |

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| ② 3-35 | <p>Section 7.C.12: Other Reasonable Practices – “If a designer would like to incorporate a treatment device not described in this chapter, please contact the RSU for approval.”</p> | <p>“If a designer would like to incorporate a treatment device not described in this chapter, please contact RDC for approval.”</p> |
| ② 3-37 | <p>Section 8: COMPLETING STF DESIGN – “The Unit Head will then sign off on the completed form and forwards a copy to the RSU. The RSU will review the form along with final plans for the STF(s) during the erosion control plan review.”</p> | <p>“The Unit Head will then sign off on the completed form and forwards a copy to RDC. RDC will review the form along with final plans for the STF(s) during the erosion control plan review.”</p> |
| ② 3-37 | <p>Section 8.A: Landscaping – “The final landscape plan will be completed by the RSU and provided to the designer for inclusion with project plans.”</p> | <p>“The final landscape plan will be completed by RDC and provided to the designer for inclusion with project plans.”</p> |
| ② 3-37 | <p>Section 8.C: Maintenance Schedule – “The RSU will utilize that information and the schedules in the Design Guides to complete “Stormwater Treatment within MS4 Communities / Form C – Maintenance” (Form C), included in Appendix Q. The RSU will forward Form C to the Operations Division.”</p> | <p>“RDC will utilize that information and the schedules in the Design Guides to complete “Stormwater Treatment within MS4 Communities / Form C – Maintenance” (Form C), included in Appendix Q. RDC will forward Form C to the Operations Division.”</p> |
| ② 3-38 | <p>Section 8.E.2: Signage – “The RSU will coordinate with the designer and the Traffic Engineering Division to determine if sign(s) are feasible and what information should be included.”</p> | <p>“RDC will coordinate with the designer and the Traffic Engineering Division to determine if sign(s) are feasible and what information should be included.”</p> |