

Design Manual Revisions

The following general revisions have been made throughout the Roadway Design Manual:

Section	Summary of General Revision(s)
Cover, title page, footers	Updated revision date to May 2023
Cover, title page, footers	Revised Roadway Design Manual acknowledgement page

The following sections of the Roadway Design Manual have been revised to provide clarification and/or new guidance on current design practice:

Section	Summary of Revision(s)
4.3	Revised Chapter 9 cross reference to 9.4.2.1 and changed traveled way to lane
4.12.1	Revised guidance for residential and commercial driveway profile grades
4.12.1	Deleted paragraph containing extra level of detail
4.14.1	Revised paragraph about minimum railing height for pedestrian and bicycle facilities
4.14.1	Added cross reference for lateral offset guidance on bridges
4.15.1	Changed speed limit from about 35 mph to above 35 mph in third paragraph
5.3.2.1	Added drainage coordination guidance for determining deck width
5.3.4.1	Revised railroad clearance guidance and moved pedestrian clearance to Table 5-3
5.3.4.2	Added statement providing details on SMU Manual Figure 6-1
5.3.5.4	Changed Regional Bridge Construction Engineer to Area Construction Engineer
5.3.6.3	Included material from Section 5.3.6.5 and removed Section 5.3.6.5 from RDM
5.3.7	Added bridge constructability guidelines section
5.4	Provided cross reference to bicycle and pedestrian barrier rail height guidance
6.3.3	Removed sentence with outdated guidance for guardrail length computation
9.2.2.5	Added DDI design considerations
9.3.1	Revision to interchange stationing guidance
9.4.2.1	Revision to ramp width language
11.3	Revised title and language of section
12.6.1	Corrected link to the Public Involvement Map Information Guide. Added the website link for the roadway design QC/QA checklists
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Section	Summary of Revision(s)
13.5.1	Added guidelines regarding use of grade point and crown point on typical sections
13.5.1	Revised last bullet for updated geotechnical information
13.5.2.5	Added Geotextile for subgrade stabilization and non-woven geotextile interlayer item to pavement schedule letter codes
13.7.3	Changed the sixth bullet to Geotextile for subgrade stabilization
15.2	Updated RDM section cross references
15.2.4	Updated RDM section cross references
15.3.5	Revisions to Proprietary Products to follow updated NCDOT policy

The following tables in the Roadway Design Manual have been revised:

Table	Summary of Revision(s)
5-3	Revised vertical clearances for pedestrian and railroad bridges
9-5	Revised table to match AASHTO Green Book 2018

The following figures in the Roadway Design Manual have been revised:

Figure	Summary of Revision(s)
4-4	Revised description and notes for Typical Section A to “other multi-lane facilities”
4-8	Added Figure for Commercial & Residential Driveway Profile
5-7	Revised Note 6 for clarity on bridge approach width
5-8	Added Note 6 for clarity on bridge approach width
5-20	Added figure for minimum offset between permanent and detour bridges
5-25	Revised figure by removing mismatched drafting lines for clarity
5-26	Revised figure by adding “4” Concrete Paved Ditch – Roadway Pay Item” for clarity. Added Note 10.
8-3a	Revised figure with 2'-6” curb on the outside EOT
9-1	Revised text for Loop D added alignment names to the loops
13-1	Added Figure for Crown Point and Grade Point on a typical section