



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: D.N. Snoke, P. E.
State Structures Engineer

DATE: August 22, 2025

SUBJECT: DESIGN MANUAL REVISIONS

The following sections in Chapters 1, 2, and 3 of the Design Manual have been revised to provide clarification and/or guidance on current design practice:

Section	Summary of Revision(s)
1.1	Updated references from "MicroStation" to "OpenBridge".
1.2.1	Removed the drawing scales figure. (These referenced scales are obsolete in OpenBridge.)
1.2.2	Updated references from "MicroStation" to "OpenBridge" and revised text to reference element templates.
2.1.8	Updated article references to current <i>AASHTO LRFD Bridge Design Specifications</i> .
2.3.4	Updated height of barrier rail for pier protection and the collision design force in accordance with the current <i>AASHTO LRFD Bridge Design Specifications</i> .
2.3.7-10	Updated article references to current <i>AASHTO LRFD Bridge Design Specifications</i> .
2.3.11	Updated references to DM figures.
2.3.12	Clarified guidance for acceptable bar size for deck in negative flexure.
2.3.17	Updated nomenclature for consistency with <i>AASHTO LRFD Bridge Design Specifications</i> .
3.1	Updated link to reference 2024 NCDOT Standard Specifications.
3.4.1	Updated reference to ASTM A615/A615M for consistency with the 2024 <i>NCDOT Standard Specifications for Roads and Structures</i>

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Project Engineers

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The updated chapters as well as the Design Manual figures have been incorporated into the Design Manual, and are available on the Structures Management Unit website.

DNS/NAP/AYG

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Division Bridge Program Managers