



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

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SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: G. R. Perfetti, P. E.
State Structures Engineer

DATE: September 6, 2013

SUBJECT: DESIGN MANUAL REVISION

Chapters 5, 6 and 7 of the Design Manual have been revised to provide clarification and/or new guidance on current design practice. Below is a summary of the revisions.

Section	Summary of Revision(s)
5.1.2.1	Moved requirement to show low chord elevations to Section 5.1.3.
5.1.3	Added requirement to show low chord elevations and removed requirement to indicate ground elevations are on the upstream side of bridge.
6.2.2.8	Clarified detailing of transverse construction joints for consistency with Figures 6-38 and 6-39.
6.3.1.3	Provided guidance on clipping the top flange of modified bulb-tee girders on a skew, and added new Figure 6-75a with details.
6.3.4	Deleted section on detailing overhang falsework and temporary bracing.
6.4.1	Added verbiage to clarify cored slab unit lengths in the BSR and to promote use of cored slab standard design plans. Also added verbiage to encourage use of standard design prestressing strand patterns in non-standard designs.
6.5.1	Added verbiage to clarify box beam unit lengths in the BSR and to promote use of box beam standard design plans. Also added verbiage to encourage use of standard design prestressing strand patterns in non-standard designs.
7.2.4	Revised to clarify references to figures showing wingwall reinforcement.
7.2.6.2	Reworded for clarity on sloping bridge seats along the gradeline.
7.2.7	Added guidance on corrosion protection for sheet piles.
7.4.5.2	Reinstated detailing 3'-0" extra length of longitudinal steel in drilled shafts.

The Design Manual is available online.

GRP/BCH/GM

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Project Engineers
Page 2
September 6, 2013

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