

## <u>BRIDGE DESIGN MEMORANDUM – DM0520</u>

TO:

**RPG Structural Design Engineers** 

Structural Design Consultants

DATE:

October 6, 2020

RE:

Neglecting the Effect of Elastic Gains in the Design of Prestressed Concrete

Girders

Apply these updated requirements to all projects where plans have not progressed beyond final submittal with signed and sealed drawings.

Add the following paragraph to the end of Section 15.5.3.4 of the Bridge Design Manual.

When designing prestressed concrete girders, do not count the effects of elastic gains when calculating prestress losses.

Please note the changes below in your copy of the SCDOT Bridge Design Manual.

Terry B. Koon, P.E.

Structural Design Support Engineer

TBK:hl

ec:

John Boylston, Director of Preconstruction Robbie Isgett, Director of Construction David Cook, Director of Maintenance Robert Perry, Director of Traffic Engineering Chris Gaskins, Design Build Engineer Rob Bedenbaugh, Precon. Support Engineer David Rister, Acting Dir. Of Mega Projects Jennifer Necker, RP Engineer - Lowcountry Leah Quattlebaum, RP Engineer - Pee Dee Philip Sandel, RP Engineer - Midlands Julie Barker, RP Engineer - Upstate Tad Kitowicz, FHWA

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File: PC/TBK/HL

