DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH000-0575-01(028) CHEROKEE COUNTY
I-75/I-575 Reversible Lane
P.I No. 713640

DATE December 22, 2009

FROM Paul V. Liles, Jr., P.E., State Bridge Engineer

TO Darryl VanMeter, P.E., State Innovative Program Delivery Engineer
Attn: John Hancock

SUBJECT **WIDENING I-575 OVER NOONDAY CREEK NORTH, BRIDGE NO. 40**

The Hydraulic and Hydrological Study and preliminary layout prepared by J. B. Trimble, Inc. for the above crossing were received in the Bridge Office on December 7, 2009, and have been reviewed by the Bridge Design Office. The hydraulic study and preliminary layout can be made acceptable, subject to addressing the review comment listed below:

1. Since the study and layout were previously approved, the layout should be marked as a revision and the study should be titled "Revised Hydraulic and Hydrological Study."
2. Due to concerns with the proposed 69'-3" Type II PSC beam proposed in the widening, please provide a preliminary design for this girder.
3. The channel velocities and backwater depths increase from the previous existing condition to the current proposed condition. Please check this.
4. Correct the markup on the attached preliminary layout.

Please note that only a very cursory review was made of the Hydraulic and Hydrological Study by the Bridge Design Office. The computer models were not checked and only obvious discrepancies were noted in the study. The Consultant is ultimately responsible for assuring that the hydraulic study adheres to the policies and guidelines contained within Chapters 14 and 2 of the Georgia Drainage Manual and will be held accountable for the accuracy and contents of the study. Copies of these chapters can be obtained by contacting Susan Beck of the Office of Bridge Design.

The Bridge Design Office will be unable to provide multiple reviews for consultant studies. Also, due to space limitations, we cannot keep hard copies of these studies. Please provide the Office of Bridge Design with electronic copies of the final hydraulic study and preliminary bridge layout (and FEMA package if applicable) for our records. These electronic copies are required to be in Adobe Acrobat Portable Document Format (.PDF). Do not password protect these PDF files. This Adobe Acrobat (.PDF) electronic copy of the study is a requirement for all hydraulic studies initiated after January 1, 2001. The cover sheet of the hydraulic study, as well as the preliminary bridge layout (and

FEMA package if applicable), are required to be stamped and signed by a registered Professional Engineer. Please send these electronic copies to the attention of Susan Beck. In addition, please send five half-size copies of the final preliminary bridge layout to the Bridge Design Office for our use.

Any future revisions of the Hydraulic and Hydrological Study and/or preliminary bridge layout should be forwarded to the Bridge Office in the above format.

If you have any questions and/or comments, please contact Susan Beck of the Bridge Design Office at (404) 631-1862 or at email address sbeck@dot.ga.gov.

PVL/STB

Attachments

cc: Bill DuVall (Susan Beck)
Ron Wishon, State Project Review Engineer