Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

March 1, 2016

MEMORANDUM TO: Glenn W. Mumford, P.E.
State Roadway Design Engineer

ATTENTION: Tony Houser, P.E.
Roadway Design Project Engineer

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FROM: John L. Pilipchuk, P.E., L.G.
State Geotechnical Engineer

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John L. Pilipchuk
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STATE PROJECT: 50125.1.FS1 (I-5710)
FEDERAL PROJECT: NHPP-0540 (030)
COUNTY: Wake
DESCRIPTION: West Bound Ramps Along I-540 at SR 1839 (Leesville Rd.), NC 50 (Creedmoor Rd.), SR 1005 (Six Forks Rd.) and SR 2000 (Falls Of The Neuse Rd.)

SUBJECT: Geotechnical Report - Design and Construction Recommendations

The Geotechnical Engineering Unit has completed a subsurface investigation for this project and presents the following recommendations.

I. Slope/Embankment Stability

A. Slope Design

Recommend that all slopes be constructed at a ratio of 2:1 (H:V) or flatter.

The Geotechnical Engineering Unit has no further recommendations other than what is listed in the Geotechnical Recommendations for Pavement Design report dated January 6, 2016.

Prepared by,

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Project Geological Engineer