

1 VanMeter drn  
 Clowers \_\_\_\_\_  
 3 Hancock \_\_\_\_\_  
 2 Douse \_\_\_\_\_  
 Rainwater \_\_\_\_\_

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**DEPARTMENT OF TRANSPORTATION**

**STATE OF GEORGIA**

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**FILE** NH000-0073-03 (242) Cobb  
 Northwest Corridor Project  
 PI No. 714130

**OFFICE** Materials and Research  
 Forest Park, GA.

**DATE** January 21, 2010

**FROM** *U.S. For*  
 Georgené M. Geary, P. E., State Materials and Research Engineer

**TO** Darryl Van Meter, P. E., Innovative Program Delivery Engineer  
 Attn: John Hancock, Program Development Design Group Manager

**SUBJECT** Bridge Foundation Investigation Review  
 I-75 Reversible Lanes over I-75 South Bound – Bridge 12

As requested, we have reviewed the Bridge Foundation Investigation report, dated December 4, 2009, prepared by Willmer Engineering Inc. for the aforementioned site. We recommend as follows:

1. **PWR and Auger Refusal Elevations:** Boring number B-83 is not included in the report. We recommend including or taking the reference out of the report.
2. **Foundation Recommendation:** All drilled shaft information in this section should be deleted and pile footings should be recommended. Therefore an alternate will not be needed.
3. **Elevations:** We recommend the minimum tip be changed as follows:

**Elevations**

<u>BENTS</u>	<u>BOTTOM OF SHAFT</u>	<u>BOTTOM OF FTG</u>	<u>MINIMUM TIP</u>	<u>ESTIMATED TIP</u>
4-Right			865	
4-Left			910	
6			870	
7			870	

Also, the “±” symbol from all the minimum and estimated tip elevations should be removed.

4. **Temporary Shoring:** We recommend changing “will be” to “may be”.
5. **Drilled Shafts:** We recommend using pile footings. Therefore, this section should be deleted from the report. Also, the Special Provision 524 should be removed.
6. **Appendix:** The Boring Record Legend, Unified Soil Classification System Reference Sheet and Engineering Description of Rock Hardness are not included within the report. The reference on page 2 of 6 should be deleted.

This report should be revised and resubmitted to this office for further review.

If additional information is needed, please contact Nancy Smith of the Geotechnical Engineering Bureau at 404-363-7546.

GMG: NFS

Copy: Paul Liles, P. E., State Bridge and Structural Design Engineer