

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

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

OFFICE Materials and Research
Forest Park, GA.

DATE March 10, 2010

Z.G. for
FROM Georgene 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-285 West Bound to I-75 Reversible Lanes - Bridge 7

As requested, we have reviewed the Bridge Foundation Investigation report, dated December 3, 2009, prepared by Willmer Engineering Inc. for the aforementioned site. We recommend as follows:

- 1. Foundation Recommendations:** We recommend a pile footing at Bent 6 be used.
- 2. Elevations:** We recommend combining Bent 6 Left and Right and 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>
3			810	
5			825	
7			860	
9			910	
11			955 (ALT)	
14 Left			921	
14 Right			925	

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

3. **Points:** Because several of the minimum tips will be raised, points are not needed on this project. Therefore, we recommend deleting them from the report.
4. **Temporary Shoring:** Temporary shoring may be required at Bents 10, 11 and 15. We recommend adding to the report.
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.

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