

MINUTES OF AGC-DOT JOINT BRIDGE SUBCOMMITTEE MEETING

(Approved: June 21, 2017)

The AGC-DOT Joint Bridge Subcommittee met on February 8th, 2017. Those in attendance were:

Tom Koch	State Structures Engineer (Co-Chairman)
Berry Jenkins	Carolinas AGC – Highway Division Director (Co-Chairman)
Brian Hanks	Assistant State Structures Engineer
Lee Bradley	Blythe Construction, Inc.
Ben Wilson	Dane Construction, Inc.
Tom Meador	Lane Construction, Corp.
Chris Powers	Lee Construction Co.
Michael Moore	Palmetto Infrastructure, Inc.
Randall Gattis	Sanford Contractors, Inc.
Larry Cagle	Thompson-Arthur Div., APAC-Atlantic, Inc.
Andy Jenkins	Vecellio & Grogan, Inc.
Aaron Earwood	Construction Unit – Area Construction Engineer
Cameron Cochran	Construction Unit – Area Construction Engineer
Scott Hidden	Geotechnical Unit – Support Services Supervisor
Dan Muller	Structures Management Unit – Project Engineer
David Snoke	Structures Management Unit – Team Leader
Trey Carroll	Structures Management Unit – Engineer

1. Approval of Minutes

Berry Jenkins made a motion to approve the minutes of the December 14th, 2016 meeting and Randall Gattis seconded the motion. Minutes were approved unanimously.

2. Virtual Fabrication of Steel Girders

Tom Koch and Brian Hanks shared information related to Virtual Assembly (VA) in the steel fabrication process. Randy Porter with the Materials & Tests Unit plans to schedule a presentation from a fabricator to explain the process. There was discussion that if this method is allowed, a special provision or a specification change would be required. **Materials and Tests Unit will continue to investigate the Virtual Assembly process.**

3. Pay Items for Pile Driving

Randall Gattis discussed the pay items for pile driving. Scott Hidden and Aaron Earwood shared with the group that for pile driving there will be two pay items. The first pay item will pay for the length of pile driven on a linear foot basis. The second pay item will be paid at a “per each” cost to cover setup, crane, etc. Mr. Hidden and Mr. Earwood emphasized that these pay items only apply to piles that are driven (i.e. a hammer must be used on the pile).

The intentions of separating the cost associated with pile driving into two pay items is to reduce the risk for both the contractor and the Department.

4. Improvements to Storm Damage Contracts

Randall Gattis discussed the construction contract process related to an event that causes the governor to declare a state of emergency. During a state of emergency, the Department can negotiate with a contractor without requiring the competitive bid process. Mr. Gattis stated that during such events there appears to be confusion on who is responsible (Division or Central) for awarding a project. **Construction Unit will internally discuss and seek guidance from the Chief Engineer's Office.**

5. Culvert Inlet Undermining

Randall Gattis stated after Hurricane Matthew the inlet end of many pipe culverts and reinforced concrete box culverts (RCBC) were undermined. For RCBC there was discussion of using sheet piling at the toe of the inlet end of the culvert. For pipe culverts there was discussion of also using sheet piling and the type of back fill material that is used during construction. **Construction Unit will discuss improvements that can potentially be made.**

6. Post Tensioning Box Beams and Cored Slab Spec Update

Aaron Earwood informed the committee that the information presented and discussed in the previous meeting concerning the post tensioning of box beams and cored slabs will be included in the 2018 Standard Specifications. Mr. Earwood stated that all jacking will be required along the skew and double action jacks will be required for all skews including 90 degree skews. Randall Gattis requested jack supplier contact information. **Construction Unit will provide jack supplier contact information.**

A general discussion was held on the use of post tension rods as an alternative. The discussion covered topics related to cost, safety, and availability. **Construction Unit and Structures Management Unit will discuss allowing the use of rods.**

7. Concrete Overlay

Aaron Earwood mentioned a request was made to pour the concrete overlay for a project prior to casting of the barrier rails and stated this request was not approved due to concerns of potential cracking of the overlay. Randall Gattis stated on past projects he received approval and was successful in pouring the overlay. Mr. Gattis stated that having the barrier

rail already in place makes the process of pouring the overlay more difficult. **Construction Unit will discuss internally.**

8. Structure Management Website

Berry Jenkins requested that the AGC-DOT Joint Bridge Meeting section of the Structures Management Unit website be kept up-to-date with the latest information. **Structures Management Unit will update website.**

9. Bridge Approach Fill

Scott Hidden discussed ideas for modifying and improving the current bridge approach fills. Mr. Hidden displayed three types of bridge approach fills the Geotechnical Unit is investigating and requested feedback from the members. The Geotechnical Unit intends to have the revised approach fills included in the 2018 Standard Specifications. **Geotechnical will continue investigating the proposed different types of bridge approach fills.**

10. Next Meeting

The next meeting is scheduled for April 12th, 2017 in the Structures Management Conference Room C.