

MINUTES OF AGC-DOT JOINT BRIDGE SUBCOMMITTEE MEETING
(Approved: June 12, 2019)

The AGC-DOT Joint Bridge Subcommittee met on February 13th, 2019. Those in attendance were:

Brian Hanks	State Structures Engineer (Co-Chairman)
Berry Jenkins	Carolinas AGC – Highway Division Director (Co-Chairman)
Gichuru Muchane	Assistant State Structures Engineer
Jay Boyd	Balfour Beatty Infrastructure, Inc.
Lee Bradley	Blythe Construction, Inc.
Chris Britton	Buckeye Bridge, LLC
Tim Kincaid	Conti Enterprises
Patrick Buckley	Crowder Construction Company
Adam Holcomb	Dane Construction, Inc.
Michael Zicko	Flatiron Construction Corporation
David Yates	Fred Smith Company
Chris Powers	Lee Construction Company
Chris Brown	Sanford Contractors, Inc.
Brian Weathersby	Sloan Construction
Jorge Gambini	Thalle Construction Company
Larry Cagle	Thompson-Arthur Div., APAC-Atlantic, Inc.
Damien Hollifield	Young & McQueen Grading Company
Kevin Knuettel	Zachery Construction Corporation
Cameron Cochran	Construction Unit – Regional Bridge Construction Engineer
Aaron Earwood	Construction Unit – Regional Bridge Construction Engineer
Scott Hidden	Geotechnical Unit – Support Services Supervisor
Tom Santee	Geotechnical Unit – Regional Operations Engineer
Cabell Garbee	Material & Tests Unit – Field Operations Engineer
James Bolden	Structures Management Unit – Project Engineer
Dan Muller	Structures Management Unit – Project Engineer
Nicholas Pierce	Structures Management Unit – Team Leader
Trey Carroll	Structures Management Unit – Team Leader

During the review of the August 8th, 2018 meeting minutes, the following items were discussed:

1. Anchor Bolt Layout

Mr. Carroll shared a proposed anchor bolt layout table for an end bent and bent. Some Contractors noted that they produce the anchor bolt layout when it is not provided. There was some discussion on using the face of the cap or the centerline of the cap for the layout reference line. There was consensus to use the centerline of the cap and complete a trial project. Mr. Hanks and Mr. Earwood agreed to select a project currently under construction and provide anchor bolt layout information.

2. Rebar Sampling

Mr. Garbee noted that Materials & Tests Unit is currently updating the rebar sampling policy.

3. Stone for Overlay Sampling

Mr. Earwood stated that the Construction Unit issued a Construction Bulletin advising Resident Engineers on epoxy overlay sampling requirements.

4. Sloped Bottom of Wing Details

Mr. Hanks noted that Structures Management and Construction Unit were continuing to discuss wing details.

The minutes of the August 8th, 2018 meeting were approved.

The following items of new business were discussed:

1. BUILD Grant Bridge Replacements

Mr. Hanks shared a map showing the location of 77 bridge replacement projects that are part of a USDOT BUILD Grant. He noted that projects are required to be let by September 2020 with the expectation that the projects be closed out by September 2025. There was some discussion on opportunities to bundle projects together for efficiency in meeting the goals.

Action Item:

None

2. Integral End Bents

Mr. Bradley discussed cracking concerns in bridge deck closure pours with integral end bents, which typically occur over the girders. Contractors noted inconsistencies among the Divisions with their preferences for utilizing integral end bents. Mr. Hanks discussed the upcoming integral end bent research project and requested that Contractors submit sites of varying degrees of performance and geographic locations for the researchers to include in their investigations.

Action Item:

Construction, Geotechnical, and Structures Management Units will continue discussing integral end bent details.

3. Bridge Inspection Report Availability

Mr. Holcomb inquired if the Bridge Inspection Report could be made available in a project's advertisement package. A general discussion concluded that Structures Management will discuss adding Bridge Inspection Reports with the Contract Standards and Development Unit. If Bridge Inspection Reports are needed, contact Mr. Gichuru Muchane or Mr. Joel Russell.

Action Item:

Structures Management Unit will discuss including Bridge Inspection Reports in a project's advertisement package with the Contracts Standards and Development Unit.

4. Extra Depth Drilled Pier Reinforcement

Mr. Cochran inquired if Contractors had experienced recent issues with being required to add additional drilled pier spiral steel when the depth of the drilled pier excavation increased beyond plan details. He noted that typically Contractors only splice on additional longitudinal (vertical) reinforcement. There was some discussion on different requirements for railroad bridges versus vehicle bridges. However, in general no issues were noted.

Action Item:

None

5. Payment for Columns on Design-Build Projects

Mr. Cochran discussed a Design-Build contract that was vague in the payment for substructure columns on pile footings. He inquired if this was a common occurrence. Contractors responded in the negative, but shared suggestions for paying for substructure components on Design-Build projects such as lump sum for cap and columns and foundation length for drilled piers.

Action Item:

Construction Unit will discuss substructure pay items with the Design-Build Unit.

6. Approach Slabs

Mr. Cochran shared a Contractor's request to introduce a paving notch on an approach slab to facilitate the transition from the roadway pavement to the approach slab. Subcommittee members discussed concerns with prior paving notch details and suggested possible solutions, which included increasing the concrete cover to allow for a future paving notch. There was consensus to evaluate details that allow a smooth transition onto the approach slab.

Action Item:

Construction and Structures Management Units will continue discussion on this topic during the 2019 Structures Workshop.

7. Bridge Deck Rideability

Mr. Earwood distributed the proposed revision to the Project Special Provision (PSP) for Bridge Deck Rideability which has been revised to include the International Roughness Index (IRI). He discussed the IRI rideability criteria and noted that approach slabs are included. Mr. Earwood requested that Contractors review the proposed PSP and provide comments. In the interim, the IRI special provision will be implemented.

Action Item:

Construction and Structures Management Units will proceed with issuing the revised Bridge Deck Rideability PSP.

8. Staged Construction

Mr. Earwood discussed current staged construction policy including girder spacing and closure pour widths. He noted the policy was developed with the assistance of the Subcommittee but wondered if there was potential for additional efficiencies. The pros and cons of various girder spacings were discussed. The Construction Unit will provide feedback on current policy.

Action Item:

Construction Unit will review staged construction policy and propose revisions.

9. Disposal of Concrete Residuals

Contractors inquired if the requirements for disposal of concrete grinding residuals applies to slurry from bridge deck grooving.

Action Item:

Construction Unit will investigate and report back to the Subcommittee.

Next Meeting

The next meeting is scheduled for April 10th, 2019 in the Structures Management Conference Room C.

Post Meeting Note:

Due to a limited agenda, the April 2019 meeting was cancelled. The next meeting is scheduled for June 12th, 2019 in the Structures Management Conference Room C.