

Structures Conference Room C
February 6, 2023
10:30 am

MEETING MINUTES

- 1) Meeting Kick-off – Came to order @ 10:35 am

ATTENDEES

Brian Hanks – NCDOT Structures Management Unit
Gichuru Muchane – NCDOT Structures Management Unit
David Stutts – NCDOT Structures Management Unit
Tierre Peterson – NCDOT Structures Management Unit
Hoang Dieu – NCDOT Structures Management Unit
Domenic Coletti – HDR
Anup Shah – Arcadis
Elizabeth Lawes – WSP
Tom Koch – Wetherill Engineering
Bradley Bell – Michael Baker

Review of Previous Meeting Minutes

- a) Previous Meeting Minutes were emailed for review and comment prior to the subcommittee meeting. A few additional clarifications to the minutes were discussed. These clarifications will be addressed and revised minutes redistributed to the Subcommittee for final approval.
- 3) Bridge Design Workshop Series
- a) Workshop scheduled for March 1, 2023: “High Load Multirotational Bearings for Bridges and NCDOT FIB Standards” to be delivered by Ron Watson & Ahmad Ighwair
- i) Order of presenters to be determined; Ron will most likely speak first
- ii) Confirmed NCDOT staff are receiving the ACEC invite emails.

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- b) Spring/Summer Topics: Bridge Design Workshop tracking spreadsheet update
 - i) Topic 57 is a strong contender for the summer workshop. Josh Deyton (D14 project engineer) would be a good candidate for a speaking assignment. Additional speakers to include personnel presenting consultant (possibly Nicole Brown) and contractor perspectives.
 - ii) Topic 56 could be ready for the fall presentation. Trey Carroll would be the presenter.
 - iii) Topic 55 was revisited as a potential candidate. Would be beneficial to present findings of the Department's integral end bent research project as well as review NCDOT's integral end bent policies and details.
 - iv) Removing Topic 59 from the workshop topic list was discussed, as the logistics of facilitating a project tour are complex. Firms can reach out to David Stutts to discuss potential site visits if interested. The possibility of the Department posting drone footage of various construction operations was also discussed as an option.
 - v) A topic relating to the recently performed corrosion research and impacts on the corrosion chapter of the SMU manual will be added to the topic list. The research is complete, report finalized and could be ready to present fall '23 or spring '24.
 - vi) Adding a new topic pertaining to rehabilitation details and materials was discussed. This presentation would focus primarily on concrete repairs. Discussion relating to the approved product list could also be covered. Tim Sherrill would be a good candidate for delivery.

- 4) Training Opportunities
 - a) PCI Seminar Update
 - i) Nicole has been having a difficult time getting in touch with Ray Clark. Gichuru volunteered to send Ray an email alerting him to be on the lookout for correspondence from Nicole.

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- b) 4th Annual NCDOT Research and Innovation Summit
 - i) 3/29 – 3/30 at the McKimmon Center
 - ii) Three bridge related topics will be presented:
 - (1) Experimental research of the Bonner Bridge
 - (2) Strut and tie modeling
 - (3) Concrete models for the prediction of P/S concrete girder damage

- 5) Anticipated PEF Opportunities
 - a) SMU has started a new prescreening list consisting of 60 – 70 bridges, with results expected in early summer. It is anticipated planning and design of these projects will initiate in 2024.

 - b) The Department is currently revisiting the 5-year budget and looking at impacts due to escalating costs.

 - c) The RFP for the 2023 LSC will drop at the end of July with LOI's submitted in August. The advertisement will be similar to past RFP's. Submitters are reminded to be clear in terms of the work areas for which they would like to be considered. New contracts will be awarded at the end of the year.

 - d) The need to make NCDOT PMs aware of non-bridge related scope creep was reiterated.

- 6) Technical Discussion
 - a) Manual Revisions:
 - i) Becca Gallas has taken over design manual revision responsibilities.
 - ii) Link slab pour sequence details are in development. These will be similar to the Wisconsin and Optional pour sequences for continuous decks currently in the design manual.

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- b) Research Projects:
 - i) Integral end bent research is scheduled to conclude this summer.
 - ii) NC State is scheduled to test beams repaired with FRP in order to determine effectiveness.
- 7) Open Discussion Other Topics
 - a) NCDOT is migrating to Windows 11 late 2024/early 2025. Windows 11 does not support MicroStation V8i, and V8i will no longer be supported by Bentley. The LSC ad scheduled for July will contain verbiage requiring firms to work in OpenX and on ProjectWise. Nick Pierce will continue to present on transition developments and serve as the point of contact regarding questions.
 - b) 55% of the state's bridges in poor condition are in Divisions 11, 13, and 14. Many of these are timber bridges on low volume dead end roads. The Department is looking into timber repair/replace solutions to avoid more expensive cored slab/box beam alternatives with large footprints. NCDOT plans to replace timber decks in kind to keep the work simple and materials economical in effort to rapidly reduce the number of poor condition bridges.
 - c) The Department is developing an approach to address interstate bridges in poor condition. Most of the poor condition bridges are in Divisions 12 and 13. Currently there are 40 bridges rated as "poor" on the interstate system and an additional 100 bridges over 50 years old with a condition rating of "5".
 - d) The Western part of NC is where NCDOT expects to focus over the next few years, but they need to encourage growth of the contractor pool in that part of the state.
- 8) Next Meeting: May 1, 2023