

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Structures Conference Room C

November 7, 2022

10:30 am

MEETING MINUTES

- 1) Meeting Kick-off – Came to order @ 10:30 am

ATTENDEES

Brian Hanks – NCDOT Structures Management Unit
Gichuru Muchane – NCDOT Structures Management Unit
David Stutts – NCDOT Structures Management Unit
Kevin Fischer – NCDOT Structures Management Unit
Nicole Brown – Alfred Benesch
Bradley Bell – Michael Baker
Domenic Coletti – HDR
Anup Shah – Arcadis
Elizabeth Lawes – VHB
Tom Koch – Wetherill Engineering

- 2) Review of Previous Meeting Minutes
 - a) Previous Meeting Minutes were emailed for review and comment prior to the subcommittee meeting. No further comments on the minutes; the minutes have been approved.
- 3) Bridge Design Workshop Series
 - a) Review of two workshops since August meeting
 - i) Reliable Fit-Up for Steel Girders (August 17, McKimmon Center)
 - (1) Committee agreed the lecture was to the point and engaging
 - ii) Steel Bridge Forum (October 27)
 - (1) Attendee engagement at lecture seemed less than previous lectures. Committee discussed whether the engineering community is getting used to in-person lectures again after covid. All members who attended the lecture agreed the topics and discussions were engaging. John Hastings encouraged NCDOT to let him know of any bridge topics which could be added to the Steel Bridge Forum in the future.
 - iii) Bridge Design tracking spreadsheet

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- (1) Committee agreed a combined lunch and learn on Bridge Bearings and NCDOT FIB Standards would be the best choice for a February/March lecture.
 - (a) NCDOT said SMU would be ready, and Gichuru would reach out to find the appropriate speaker.
 - (b) Dominic Coletti will reach out to Ron Watson about presenting on bridge bearings.
 - (2) Committee discussed a presentation on CMGC for next Summer.
- 4) Training Opportunities
- a) 2022 ACEC/NCDOT Transportation Conference: 11/30 and 12/1.
- 5) Anticipated PEF Opportunities
- a) The new prescreening projects (approximately 45 total) have been allocated to the Divisions & PMU, who will be managing the projects. SMU gave consultant recommendations to the divisions and PMU and they should be reaching out to consultants soon. The Divisions and PMU will be setting up scopes. All communication will go through the Project Manager at the Division or PMU. David Stutt's groups may be involved in estimating the projects. If the Division is adding to the scope or budget (ex. Resiliency, widening, etc) then the project may not be able to be funded. All the projects must be fully funded before letting and All plan to be funded in the next 3-4 months. The work on these will utilize the 2020 Limited Service Contracts (LSCs).
 - b) Division 11 is managing the RAISE grant, not SMU. The program will consist of 28 bridge replacements.
 - c) Previously, there was approximately \$50 million in STIP that is now \$150 million: \$100 million in off-system and \$50 million in on-system. All of this is currently on the structures on-call but SMU will work with the Division and PMU if the contract is used up.
 - d) In 2014, the goals were to reduce the number of structurally deficient in the state. Since then, the percentage of structurally deficient bridges on secondary roads has dropped significantly, however the percentage on

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interstates has increased. Out of these bridges: 5,000 are over 50 years old; a large percentage of these are in the western part of the state where access and staging to replace the old interstate bridges is difficult. The new goals may focus on improving and replacing older interstate bridges.

6) Technical Discussion

a) Manual Revisions:

i) No new updates.

b) Research Projects:

i) No new updates.

7) Open Discussion Other Topics

a) Several states are involved in a pooled fund research project focusing on BIM for structures and implementation. The goal is to develop IFC standards promoting compatibility of BIM and design software packages. There was a presentation topic at the ACEC Conference in October/November.

8) Next Meeting: February 6, 2023