

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of August 6, 2012 Meeting
Structure Design Conference Room C, 10:00 am

Attendees

Greg Perfetti – NCDOT Structure Management Unit (Co-Chair)
Allen Raynor – NCDOT Structure Management Unit
David Stutts – NCDOT Structure Management Unit (for Kevin Fischer)
Henry Black – NCDOT Structure Management Unit
Tim Rountree – Wetherill Engineering (for Eddie Wetherill)
Michael Craig – WSP Sells
Domenic Coletti – HDR
Paul Barber – HNTB
Paul Holshouser – Wilbur Smith (for Tom Harris)
Joe Kelvington – Stantec (Co-Chair)

Meeting opened with introductions. Michael Craig and Domenic Coletti were welcomed as new members of the committee.

- 1) **Review of Previous Meeting Minutes** - Minutes of the May 7, 2012 meeting were reviewed and accepted with the following addition under Anticipated Project Advertisements:
 - a) Future project assignments to PEF's will be primarily through task orders to on-call consultants rather than the Purchase Order Directory.
- 2) **Bridge Design Workshop Series** – past presentations and future topics were discussed.
 - a) Feedback on the July 12th Workshop – Design and Construction Issues for 30” Prestressed Concrete Piles. Approximately 60 people turned out for the luncheon and seminar. Comments received were sparse, but were generally positive. Some constructive critiques mentioned that the topic was too broad for a 1 hr. presentation. Camber prediction and LRFR for pipes and culverts appear to be future topics of greatest interest to those that responded.
 - b) Potential Topics from Survey for next Luncheon Seminar –
 - i) **Predicting Camber for Prestressed Concrete Members** research project – Allen Raynor will contact Dr. Sami Rizkalla to give a presentation on the research results. Dr. Rizkalla is presently overseas. Allen Raynor will reach out to him to coordinate date(s) once he return to NCSU.
 - ii) **Hydraulic Sizing & Scour** – To be the topic of the next luncheon seminar. Eddie Wetherill will contact Max Price and Jerry Lindsay about serving as presenters. Tim Rountree will contact NCDOT Hydraulics Unit in Eddie's stead.
 - iii) **LRFR Pipes and Culverts** – pending outcomes on field load tests being conducted by Satry-Das. 3 sites are being tested. NCDOT is looking for calibration factors that will yield rating factors that are consistent with historical experience. (For culvert ratings, NCDOT gives culverts out to PEF's

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by counties, and PEF's do culverts for Municipal governments. There is a FHWA to rate all culverts by 7/2013.)

3) Training Opportunities –

- i) NCDOT is hosting a 2 week NBIS course for late summer (DOT staff only).
- ii) NCDOT will be hosting a training course on element based bridge inspections (EBI). 2 versions of the course are currently available. Date and selection of course format has not been set. Greg Perfetti is to develop a plan and set dates for implementation of EBI by the Department.
- iii) ACEC Training committee is looking into an offering of the LRFD Steel Bridge Design Forum. Chris Garrell (NSBA) has been in contact with Tim Rountree to coordinate. David Smith (NCDOT) is Co-Chair of the Training Committee.
- iv) There is potential for presentation of a training event by PCI. Last held approximately 3 years ago, a future date for this training could be coordinated jointly with the NCDOT/ACEC Training Committee.
- v) 11th Annual Paul Zia lecture @ NCSU – Presentation on the expansion of the Panama Canal
 - (1) Monday, September 24 @ 1:30 pm
 - (2) Marriot Downtown
 - (3) Pam Townsend is committee chair

4) Anticipated PEF Advertisements

Definitive information on upcoming projects that will let out to consultants is still under development. The following list is what is tentatively on the list for consultant projects:

- i) NC 68 Connector @ GSO – GSO is extending a runway and road works need to be relocated. Project is to be advanced due to airport construction schedule. April 2014 let date is scheduled. Work will likely be assigned as task orders through on-call contracts. Scope of work – 5GS & 2SX structures. A separate design-build interstate project is to be coordinated with the NC 68 project.
- ii) U-2579 – Winston Salem Northern Beltway. 18 bridges will be sent out to PEF's. Construction will be by conventional delivery methods. Total scope of work – 10GS, 7SX, 2RRO, 5RCBC. U-2579G with 1 bridge is to be advertised for the October 2012 letting and will be taken from total project scope.
- iii) U-2625B – Greensboro Eastern Loop. 9 bridges going out to consultants. Project scope – 1RRO, 4GS, 4SX. Tentative letting date is May 2014.
- iv) R-1015B – Havelock Bypass. Project scope – 4RRO. Tentative letting date is August 2015.
- v) U-2519 – Fayetteville Outer Loop. May involve B or CA breakdowns. Scope of work for consultants is 6 bridges.
- vi) I-914 A&B – I-85 Rehabilitation and Improvements. Estimated scope of work is 4 bridges each. Tentative letting date is September 2014.

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- vii) Express Design-Build projects – Advertisement for SOQ's in September 2012. Not all NCDOT divisions will be involved. Two projects in Division 5 and project(s) in Division 1 are anticipated.

5) Technical Discussions –

- a) New 42” Railing – 42” high railings will be required wherever possible for all current and future bridge designs. This is a self-imposed management decision by NCDOT. A 42” Type F (New Jersey) barrier section has been approved by FHWA. NCDOT is currently developing the standard.
- b) Triage – NCDOT Structure Management Unit is being migrated into a new Department web site. Effective August 17, 2012. This site will be a “one stop shop” for all NCDOT information and contacts.
- c) NCDOT Standard Bridge Plans are currently residing on the Express Design-Build website.
 - i) Interest has been expressed in having this available on the new DOT web site at a “stand alone” location.
 - ii) Precast concrete caps are now under development for Standard Bridge Plans
- d) QA/QC Policy – For consultants, A Designer of Record will need to review and sign plans. A signature block on plans will be required. Consulting firm will need to submit written QA/QC plans to the Department through PEF coordinators. QA/QC plans will be a prerequisite for prequalification. Requests for written QA/QC plans will be made once NCDOT SMU has named PEF coordinator (estimate September 2012).

6) Future Meetings – 10:00 am Structure Design Conference Room C (unless otherwise indicated)

- i)** November 5, 2012
- ii)** February 4, 2013
- iii)** May 6, 2013