

## ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of November 5, 2012 Meeting  
Structure Design Conference Room B, 10:30 am

### Attendees

Greg Perfetti – NCDOT Structures Management Unit (Co-Chair)  
Allen Raynor – NCDOT Structures Management Unit  
David Stutts – NCDOT Structures Management Unit  
David Stark – NCDOT Structures Management Unit  
Tom Harris – CDM Smith  
Michael Craig – WSP Sells  
Domenic Coletti – HDR  
Paul Barber –HNTB  
Joe Kelvington – Stantec (Co-Chair)

- 1) **Review of Previous Meeting Minutes** - Minutes of the May 7, 2012 meeting were reviewed and accepted with the following corrections:
  - a) Chris Garrell w/ NSBA will be coordinating w/ Tim Rountree for the January 24 Steel Bridge Forum.
  
- 2) **Bridge Design Workshop Series** – past presentations and future topics were discussed.
  - a) Feedback on the October 15<sup>th</sup> Workshop – Realities of Camber Prediction in Prestressed Concrete Bridge Girders. Seminar was presented by D. Sami Rizkalla. Approximately 65 were in attendance. Only one attendee was from NCDOT – probably due to the location of the venue.
  
  - b) Potential Topics from Survey for next Luncheon Seminar –
    - i) **Hydraulic Sizing & Scour** – To be the topic of the next luncheon seminar? Joe Kelvington will contact Eddie Wetherill to confirm availability for Max Price as a presenter. Michael Craig will speak with Amy Wazzenegger as a potential alternate for Max. NCDOT presenter is still to be confirmed.
    - ii) **Next Workshop** – Bridge Hydraulics in January or February 2013. Joe Kelvington will contact Tia to look into availability of the Rural Center.
    - iii) **LRFR Pipes and Culverts** – Pending outcomes on field load tests being conducted by Satrajit Das who is performing load testing on multi-cell boxes. Matt Clark is to present for NCDOT. Workshop will be in the March or April Time frame. Tia will be contacted to check on the availability of the Rural Center.
    - iv) **New Topics for Consideration** – Steel railroad bridge design was mentioned as a potential topic of interest in a comment received from evaluations on the October 15 workshop.

## ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of November 5, 2012 Meeting  
Structure Design Conference Room B, 10:30 am

### 3) Training Opportunities –

- i) Steel bridge Forum – Joint training with NCDOT and Consultant Community. Date is set for January 24, 2013. Chris Garrell and Tim Rountree are working to set up an agenda and speakers.
- ii) NCDOT is sponsoring a course in Element Based Inspection (EBI) procedures (DOT staff only). 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) There is potential for presentation of a training event by PCI. Regional scope to this conference is a possibility. To be coordinated jointly with the NCDOT/ACEC Training Committee.

### 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) I-914 BA&BB – I-85 Rehabilitation in Warren County. Four (4) grade separations (GS) on the BB project and four (4) GS on the BA project will be assigned thru Limited Services Agreements (LSA's) in January 2013. Tentative letting date is September 2014.
- ii) U-2519CB – Fayetteville Outer Loop. Four (4) stream crossings will be assigned thru LSA's in November 2012.
- iii) U-2579 – Winston Salem Northern Beltway. Six (6) GS and five (5) Stream Crossings (SX) will be assigned under LSA's. Assignments will be made in November and December 2012. Tentative let date is November 2014.
- iv) R-1015B – Havelock Bypass. Project scope – Six (6) Railroad Overhead, six (6) GS, and four (4) SX. Assignments to firms under LSA's will be made in February 2013. Tentative letting date is August 2015.
- v) R-2514D – US 17 improvements in Jones County. Project scope is nine (9) GS, and four (4) SX. Assignments to firms via LSA's will be in March 2013.
- vi) R-0623 – NC 24 & NC 27 in Montgomery County. Two (2) SX will be assigned via LSA's in April 2013.

Total of anticipated assignments under LSA's is 54 bridges. The department's objective is to spread work equally to firms. Some firms have not yet been assigned work under their LSA's.

All structure assignments for NC 68 in Greensboro have been made.

Express Design-Build projects – Advertisement for SOQ's in October 2012. Scope is for 130 bridge replacements under 13 contracts.

## ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of November 5, 2012 Meeting  
Structure Design Conference Room B, 10:30 am

### 5) Technical Discussions –

#### a) Bridge Inspections:

- i) NBIS and FHWA audit was conducted during the last week of October. Some of the observations noted during the audit were related to coding of various items.

Audit was conducted at randomly selected sites, many of them in the eastern part of the state. Some training and education needs were identified.

Recommendations to come out from the audit will likely indicate a need for more internal and external training of inspectors. This is a potential training opportunity for NCDOT/ACEC

#### b) Policy Memos – Latest memoranda issued by the Structures Management Unit include:

- i) Design for steel reinforced elastomeric bearings by AASHTO LRFD “Method B”. This gives bearings greater load resistance.
- ii) F-shape concrete barrier is to be used on regional and state-wide projects where New Jersey barrier rails are to be used.
- iii) QA/QC requirements for consultants – Firms can use methods of their own to confirm that designs and plans are developed in accordance with their QA/QC procedures. All firms will need written documentation of their QA/QC procedures. This will be required with submission of prequalifications to the Department. Standard Box Beam and Cored Slab bridge plans that are not altered will not need to adhere to new QA/QC standards.
- iv) Scour Notes – The Structures Management Unit Design Manual has been updated to include notes pertaining to bridge scour that must be shown in bridge plans.
- v) On-line version of the NCDOT SMU Design Manual still has some shake-down issues to resolve following the migration to the new NCDOT website. Let Brian Hanks or Allen Raynor know of any lingering issues that need to be resolved.
- vi) Foam Joint Seals – Design procedures revised to simplify joint selection procedures. Temperature limits have been revised, joint sizes and openings have been simplified, and one figure in the Design manual is now to be used for steel and concrete spans.

### 6) Invoicing – All invoices go to Kevin Fischer. Let Allen know if there are any issues related to invoicing that need to be resolved.

### 7) Future Meetings – 10:00 am Structure Design Conference Room C (unless otherwise directed)

- i) February 4, 2013
- ii) May 6, 2013
- iii) August 5, 2013
- iv) November 4, 2013