

NC DOT / PCI Meeting Minutes

November 16, 2005

Attendees – See Attached List

Presentations

Deck Bulb-Tee Girders – Dr Janos Gergely, P.E. from UNC-Charlotte gave a presentation on the progress of his research documenting the Department's Deck Bulb-Tee Girder Project in Stanly County. The project went smoothly with no major problems, but there are no plans for another deck bulb-tee project at present.

Self-Consolidating Concrete – Dr. Paul Zia, P.E. from NCSU gave a presentation on his Self-Consolidating Concrete research. The Department's specification for SCC is a direct result of this research.

Technical Committee Meeting – A Technical Committee Meeting was held October 5, 2005 and the minutes of that meeting were distributed. TC Items discussed during today's meeting were:

Cracking of Acute Corners of Cored Slabs – Reid Castrodale will get a copy of a report on a three bearing pad system used for similar type members in New England.

Web Splitting – The Department will develop a policy concerning the width of cracks and what type of repair is required.

Deflection of Girders on Knightdale Bypass – The Department is continuing to monitor these girders and will make a final report available to the Industry.

Number of Strands in Cored Slabs - Bridge Maintenance will review the number of strands in their designs. Structure Design noted that their policy of zero tension in the bottom of cored slabs requires more strands.

Research - The Department has submitted a request for innovative bridge funds for project with full-depth precast deck panels. Funding should be available by the end of the year. The Department is in the concept stage of a research project on lightweight concrete girders with metal stay-in-place deck forms.

PCI Plant Certification - The Department will require all prestressed concrete plants producing for NC DOT to be PCI Certified in the appropriate category. The details have not been worked out but it will include some kind of spot checks by the Department to ensure the producers are following their approved QC/QA Programs. The Department also needs to decide how to handle a prestressed yard set up by a contractor on the project site.

Hauling - There has been no action on the item. It was suggested that the Industry might also want work through the Carolinas AGC.

Future Projects

Oregon Inlet - Currently working on the environmental impact statement.

Bridge Replacement Projects - There will be numerous small bridge replacement projects in each letting. The majority of the projects will be prestressed concrete.

Garvee Bonds - Projects will be identified after the first of the year with lettings in late '06 or early '07.

Strand Detensioning Sequences - The Department asked if a detensioning for girders were shown on the plans, would the industry use it, noting that it would eliminate a submittal. The Industry was receptive to the idea and it was referred to the Technical Committee to work out the details.

Overhang Falsework Hangers on MBT's - Research on overhang falsework hangers on modified bulb-tee girder has shown failures at much lower loads than previous thought. On future MBT jobs the approval criteria for hangers will be different (closer spacing). Dr. Emmett Sumner of NCSU who is doing the research will be asked to present his findings at the next meeting.

ACI Conference - The Spring ACI Conference is being held in Charlotte, March 26-30, 2006. There will be an all day secession honoring ACI Past President and Honorary Member, Dr Paul Zia. There will also be a special dinner on Monday, March 27 to honor Dr Zia. Note that pre-registration is required for the dinner and tickets are \$50 each.

Meeting Frequency - It was suggested that with the progress the committee has made, the frequency of the meetings could be decreased. It was decided to hold meetings once every four months. Meetings will be the 3rd Wednesday of February, June, and October. Meetings for 2006 will be February 15th, June 21st, and October 18th.

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