

## NC DOT / PCI Meeting Minutes

March 25<sup>th</sup>, 2009

Attendees – See Attached List

**Presentation** - None

**Technical Committee Meeting** – There was no Technical Committee meeting held since the last full committee meeting

**Tolerances** – The industry is concerned that the traditional dimensional tolerances for prestressed members may work for the larger members being produced. One major problem is the span to span width tolerance. This is causing problems when slip-forming the barrier rail. The Department will look into this issue.

**Cored Slab Standards** – A proposed standard for Cored Slabs was handed out. Slabs are detailed for 25' to 55' span lengths in 5' increments and skews from 60° to 120° in 15° increments. In most cases the barrier rail will be flat. Structure Design would like feedback from the Industry. The shape of the S3 bar was asked to be modified to better accommodate fabrication. Structure Design is still work on details for a 24" cored slab for spans up to 70'. It will have a 12" void and the same shear key as the 21" slabs. There will also be two transverse stands in separate ducts at each diaphragm.

**Cracks in Prestressed Members** – The previous provision for web splitting and cracks has been removed from the Standard Specifications. Now all cracks will be handled on a case by case basis.

**Transverse Holes** – All transverse holes in cored slabs and box beams will be 2½" in diameter.

**Box Beam Shear Keys** - For the time being there will be no change in the shear key details on box beams.

**Box Beam Camber** – The Department is experience differential camber problems on box beams. M&T and Structure Design are collecting camber data for a future research project.

**High Strength Piles** – The Department would like to use higher strength concrete in prestressed piles to better handle the stresses of driving. The Department asked if 7500 psi would result in significant price increases. The Industry indicated it would not.

**Alkali-Silica Reactive Aggregates** – The Department recently discovered that the coarse aggregate used by one producer had a potential for ASR. The Department is developing a policy that will address this issue.

**Future Projects –**

- a) Oregon Inlet – Currently scheduled for June, '09, but there is no funding for it.
- b) I-85 Over the Yadkin River – Currently scheduled for November '09 as a design-build project.
- c) Wilmington Bypass – Late '09 or early '10 as design-build.
- d) Western Wake Expressway – Under design by the NC Toll Authority but there are funding problems and the letting date is unknown.

**Prestressed Concrete Economical Fabrication (PCEF)** – The next meeting is scheduled for Thursday, August 13<sup>th</sup>, 2009 in Columbia.

September 14<sup>th</sup> NCSU is planning a seminar to honor Dr. Paul Zia.

**Next meetings**

July 15<sup>th</sup>, 2009

November 18<sup>th</sup>, 2009

**ATTENDEES - 3/25/2009**

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