**AASHTO Subcommittee on Construction  
Roadway and Structures Section – Break out Meeting**

**Minutes**

Monday – August 16, 2010

1. Introduction

Ten DOT’s were present at the RS Section.

2. Updated names and membership information to be posted on SOC website.

3. Work plan review and status report.

Item 1 - Removed from the work plan.

Item 2 – Greg Doyle presented the Draft for the Transportation Quality Assurance Program. He will coordinate with or reference ISO certification. Also, will provide a section for independent review for dispute resolution.

Item 3 – David Hoyne completed a survey of best practices for constructability reviews, value engineering, contractor solicited input and post construction feedback. The goal is to improve the quality and effectiveness of plan sets. The survey is available on the SOC website.

Item 4 – Contact Ken Jacoby, FHWA regarding participation in a Construction Task Force Steering Committee.

Item 5 – Roy Rissky provided an update on his participation in the Transportation System Preservation Program (TSP2). State participation in the program provides them access to a website, bulletin board, library and working groups. You also can participate in regional partnership meetings and access regional experts for your bridge and pavement preservation needs.

Item 6 - Follow up on discussion point from last year’s meeting regarding need to wash equipment prior to moving jobs. Consensus among the group is to forward to the Environment and Human Resources section.

Items 7 and 8 - Dave Ahlvers presented results from surveys on cracking in long prestressed concrete beams and stockpiled materials.

4. In the area of bridge preservation, there was a discussion regarding problems with cracking in prestressed girders. Marcia Bianchin, Ontario, and Brian Buckel, Louisiana, stated that they have had problems with longer girders.

5. Bob Orthmeyer (FHWA) discussed Subcommittee on Materials development of Ride Specifications. SCOM has been working on specs for about 8 years and have developed 4 standards for ride quality measurement using inertial profilers. 2008 Guide spec for Construction does not address use of inertial profilers. R54-10 is being published as a full set of standards this year and there is some desire to see the Guide Specification for Construction updated to include the new standards. Guide specification is not updated every year. D. Ahlvers to check with J. McDonnell on updating Guide Spec.

Section members discussed several issues including:

* Defining sample interval
* May need to query states that are using inertial profilers to see what numbers are being used
* Subcommittee on construction would need to come up with suggested values for payment
* S. Mueller suggested putting a link from Subcommittee on Construction website to smoothpavements.com
* Assistance is available from FHWA – e.g. ProVAL workshops
* TTI has developed a formula for converting in/mile to IRI

6. Resolution 10-05

Subcommittee on Maintenance passed a resolution on 7/15/10 in Savannah, GA to support the full implementation of the Safety Edge and would like the Sub-Committee on Construction to endorse the resolution. Roadway and Structures section agreed to bring topic up for discussion in front of whole subcommittee, but general feeling was that Safety Edge still needed to be studied and Subcommittee would support idea, but not full implementation at this time. Louisiana noted some issues with superelevation.

7. Research proposals – group discussed the following topics for discussion at the breakfast meeting.

Topics from last year

* Invasive Species – Not much interest from group
* Accuracy of HEC-2 Scour predictions- a lot of interest

New topics suggested for this year

* Survey for specs on mass concrete pours – perhaps a synthesis of practice
* Use of ground rubber tire rubber and shingles as substitute for RAP
* OSHA removal of Shear Stud exemption
* Need for a synthesis on prestressing best practices
* Use of titanium dioxide in concrete
* New tools for addressing change in turbidity rules for stormwater runoff
* Best practices on shaft cage erection

Thursday, August 19, 2010

1. Roadway and Structures section began putting together the work plan for the coming year. Topics discussed are as follows:

1. Complete QA/QC manual – check on ISO requirements.
2. Develop updates to construction guide spec regarding IRI. Need to survey states regarding IRI requirements. Dave Ahlvers working with Bob Orthmeyer.

a. Should an interim guide be developed?

1. Include link to <http://www.smoothpavements.com> from Subcommittee on Construction webpage.
2. Discussion among group that some states using % reduction spec for overlays etc
3. General sense that IRI measurements be based on type of facility – Interstate, rest of NHS, lower speed facilities
4. Should be used at state discretion
5. FHWA stressed importance on the use of continuous equations versus stepped for bonuses
6. Reminder of FHWA request regarding use of Performance contracting

a. FHWA looking for pilot states/projects. Already in FHWA’s workplan and Highways for life (HFL)

1. There are states already committed
2. Update from HfL on status during monthly meetings
3. Possible presentation topic for next year
4. Monitor and support from section?
5. Performance striping project in Vermont
6. Rob Elliot serving as champion for FHWA.
7. Cracking in pre-stressed girders
8. Did not go through the research section
9. Solution from Florida? Steel plate in bearing area. Stresses at release contributing to cracking. May not be desirable solution in corrosive environments.
10. Need to keep an eye on this – design sections going to taller, thinner sections.
11. Best practices – Domestic scan?
12. Presentation for next year?
13. Brian Buckle – LDOTD to work with D. Sadler.
14. Survey on cracking in mass pour concrete structures
15. New Mississippi River Bridge project in Missouri
16. Dave Ahlvers and John Smythe to follow up as possible research topic
17. Safety Edge
18. Request to support resolution from SCOMaintenance
19. Evaluate and support
20. Not just part of this section
21. Cracking in HPC
22. David Hoyne – looking at putting together a survey
23. Need to come up with a definition of HPC – high strength? Structures?
24. There is currently a study under way at the University of Kansas on correlation between low strength low cracks – Dave Darwin (KU)
25. ATSP bridge preservation techniques – TSP2 may be useful for putting together and distributing survey
26. TCCC course
27. Discussion on the promotion of the use of 00GRS
28. Part of Every Day Counts (EDC
29. Jeff Lewis lead from FHWA
30. Daniel Alzamora – FHWA Lakewood
31. Steel erection on Shafts
32. Need baseline data – survey
33. HEC-2 – left over from last year
34. Did not make it through research
35. Very likely a topic in the Sub-committee on Structures – D. Ahlvers needs to check if it is in their work plan?

2. Update from Research presented by David Hoyne – m) and n) (see below) are ideas that were moved forward for research.

1. HEC 2 – Full research – left over from last year
2. Mass Pour – Synthesis – survey
3. Grading out binder with recycled materials – full research
4. HPC cracking – full research
5. I/D – Contract Admin – 20-7
6. CMGC – Contract Admin – Synthesis
7. Staff Training – Env and Human Resources
8. Amount of Staff – Synthesis
9. Dealing with Reduced Staff – Research
10. Support Trans XML – Computers and Tech
11. Scheduling software – Survey
12. Cameras on projects – technology to reduce inspection requirements
13. Voted – Strategies for departments to deal with reduced staff
14. Voted – Research on WMA – already have a need statement. Difference in opinion between Construction and Materials – evaluation in lab vs. performance

3. Section members discussed possible presentations for next year’s meeting – a through h are last year’s ideas.

1. GreenRoads type initiatives
2. FHWA researching this right now
3. Hoover Dam – presented this year
4. Cable Rail
5. Structural Steel Bolting – D. Sadler?
6. Role of specialty engineer in construction
7. States use of MEPDG
8. States us of flyash
9. On-line shared review of contract docs
10. Slides and Rockfalls
11. Colorado – 4 major slides Glenwood Canyon
12. Washington – SR 410 Naches
13. North Carolina – I-40
14. Large (multi $B) Projects
15. Funding issues – e.g. IN and KY trying to find $4B – Ohio River Bridges project
16. AWV
17. CRC
18. Dole Drive
19. Two-lift concrete paving – Suneel Vanikar
20. Stringless paving – John Smythe
21. Traffic control strategies inTulsa
22. WMA – Matthew Corrigan
23. GRS
24. Every Day Counts – cover multiple topics; WMA, GRS, Stringless paving
25. Positive outcomes from ARRA
26. Huey P. Long Bridge in N.O.
27. I-15 CORE Utah County
28. I-64 in St. Louis – Fixed Price Variable Scope
29. Lake Champlain Bridge
30. West Virginia Bridge Painting

4. Strategic Plan – how work plan links to strategic plan. How do day to day items fit in?

1. What are the critical issues in your state?
2. FHWA perspective nationallyFunding
3. Staffing – doing more with less
4. Contractor Relations
5. Keeping up with technology
6. Traffic Control
7. Where do you want to be in 5/10/15 years from now?
8. Performance (end results) specs with NDT
9. Roles of owner and contractors – owners keeping up with contractor innovation
10. Value Engineering and ATC’s

Need to distribute SCOH Strategic Plan. See if we need to realign this section with strategic plan. Strategic plan is on-line. SCOH webpage.

Meeting adjourned at 3:00 pm for Final Business and Wrap-up session