

2004-2005 Section Work Plans

AASHTO Subcommittee on Construction

1. Computers and Technology Section

2004-2005 Work Plan

1. Establish team to develop guide for construction management system automation. (Byron Coburn, Dexter Newman, Tucker Ferguson, Brad Parks)
2. Provide information to AASHTO website (partner with Pavement and Structures Section). (Tucker Ferguson)
3. Continue to provide leadership, extension, and guidance for the enhancements of the AASHTO Trans? Port software. (Don Miller, Jim Johnson, and Brad Parks)
4. Review and provide feedback to VDOT project to speed up migration of Trans? Port to a web based application. (Tucker Ferguson)
5. Survey States, contractors, and consultants to determine those using Stakeless Construction and gather information to develop a guide specification. (Dennis Kuchler & Jeff Gower)
6. Provide representative to the following:
 - a. Guide Specification Task Force (George Raymond)
 - b. National Specification Website (Jeff Gower and Jim Garling)
 - c. NICET steering committee representative. (Jeff Gower)

Proposed Presentations for 2005 Meeting

1. Results of all survey conducted by section.
2. Archiving Documents and Legal Consequences (George Raymond)
3. Stakeless Construction (Dexter Newman)
4. Turbidity and GPS Readings (Gene Mallette)
5. Non-nuclear gauge Testing (Dexter Newman)

2. Contract Administration Section

- 1) *Fraud issues – educational tools or briefing paper jointly developed with industry (AGC, ARTBA, ACEC, etc.).*
 - a. Consider the possibility of a joint development effort with industry to raise awareness (ethics briefing / flyer/ fact sheet)? (Assigned to: Ananth Prasad and Steve DeWitt will coordinate with industry)
 - b. OIG video? (Assigned to: Jason Dietz will assist in converting the OIG videotape to CD format)
- 2) *AASHTO Guide Specifications* (Jim Tynan overall coordination, Dave Sadler, Florida DOT)
Section 500 (Assigned to: Brenda O'Brien, Mary Ridgeway)
Section 100 (Assigned to: Jerry Yakowenko)
- 3) *Best practices for capturing unit cost information on lump sum contracts*
Florida DOT will prepare a summary of their experiences with lump sum bidding.
(Assigned to: Ananth Prasad, Jerry Yakowenko and Steve DeWitt will assist in the review)
- 4) *Develop an AASHTO position paper on errors and omissions / recovery of costs. When the OIG final report becomes available, develop an AASHTO response.*
(Assigned to: Steve DeWitt, Ananth Prasad, Ken Stoneman, Jerry Yakowenko, Vince Mammano, Cal Ge-ndreau)
- 5) *Update the Primer on Contracting for the 21st Century*
(Assigned to: Jerry Yakowenko, Jerry Blanding, Mike McGrath)
- 6) *Summary of State Practices on Delay Claim Analysis*
(Assigned to: Julio Alvarado, Gene Wortham, Jeff Benefield)
- 7) *Summary of State Practices for Authority Given to Consultants for Construction Engineering and Inspection*
(Assigned to: Yakowenko, Bob Bowden, Ananth Prasad, Greg Schiess, Ken Stoneman)
- 8) *Summary of State Practices for conflict of Interest*
(Assigned to: Steve Mills, Jerry Yakowenko, Manu Chacko)
- 9) *Summary of Idaho's practices for alternate dispute resolution*
(Assigned to: Gene Wortham, Jennifer Balis)

3. Environment and Human Resources Section

ENVIRONMENTAL STEWARDSHIP

1. Coordinate the Review of the New EPA Guide Specification (Green Spec). Lead: Chuck Correa (Alaska) and Jeff Lewis (FHWA-CA).
Jeff will consult with FHWA HQ to determine the applicability of the new Green Spec to highway projects. If it is intended to apply to highway projects, state DOT's will be alerted and encouraged to submit comments directly to the EPA. Chuck will report to Len Sanderson by 9-14-04.
2. Construction Involvement in the Environmental Permitting Process. Lead: Ellis Powell (Colorado) and Marie Venner (Venner Consulting).
Determine how involved state DOT Construction staffs are in the environmental permitting process. Comment on the effectiveness of the different practices.
3. Innovative Environmental Practices on Construction Projects. Lead: Ellis Powell (CO) and Marie Venner.
Report on the use of innovative environmental enhancements and mitigation, the use of incentives/disincentives for environmental compliance, incentives for the reduction of environmental impacts, and other administrative tools. Determine how states are handling environmental permits in Design-Build contracts.
4. Dealing with Turbidity on Construction Projects. Lead: Gene Mallette (California)
Investigate what the state practices are for controlling, monitoring, and reporting water turbidity. Specific problem areas are excavations, borrow pits and quarries, and jetted piles. How are turbidity limits specified in contracts?
5. AASHTO Standing Committee on Environment. Liaison: Dean Van DeWege (Colorado).
Attend the SCoE meeting and report to this Section on any areas of interest.
6. AASHTO Subcommittee on Design. Liaison: Dean Van DeWege (Colorado).
Attend the SoD meeting and report to this Section on any areas of interest.

WORK ZONE SAFETY

1. Survey of State Work Zone Safety Programs. Lead: Amos Hubbard (Kentucky).
Survey of states to determine practices for certifying or prequalifying construction staff, both state and contractor, for implementing Work Zone Traffic Control.
2. Practices for Using Law Enforcement in Construction Zones. Lead: Amos Hubbard (KY).
Survey the states to determine practices for the use of law enforcement to enhance safety in construction zones.
3. Practices for Administering Traffic Control Items. Lead: Amos Hubbard (KY).
Survey the states to determine who is responsible for Traffic Control Plans (owner or contractor) and how traffic control is paid for (lump sum, contingent sum, unit price).

HUMAN RESOURCES

1. Qualification Programs for Field Inspectors. Lead: Ellis Powell (North Carolina) and Douglas Townes (FHWA).
Determine what states have formal inspector qualification programs and report on how some of those programs are administered. Also identify which states require consultant inspectors to be qualified under a formal program.
2. Report on State DOT Efforts to Reduce Construction Staff. Lead: Ellis Powell (NC) and Douglas Townes (FHWA).
Determine how frequently consultants are being used in contract administration, what states are using contractor results for acceptance testing, and how States are maintaining oversight of consultant and contractor inspections and testing.
3. Transportation Curriculum Coordination Council (TCCC). Liaison: Lee Onstott (New Mexico).
Attend TCCC meeting and coordinate issues of interest with this Section.
4. Update on TCCC's Work Zone Safety Core Competencies. Lead: Chris Newman (FHWA).
Report to this Section the status of this TCCC program.
5. Status of NICET's Effort to Update the Highway Technician Certification Program. Lead: Bud Darby (NICET).

Report to the Section on the update of NICET's program. Ellis Powell has agreed to participate in the Steering Committee on behalf of the E&HR Section. Douglas Townes and Dale Lewis volunteered from FHWA.

AASHTO GUIDE SPECIFICATIONS

1. Participate in the Review Committee for the AASHTO Guide Specification. Lead: Bob Watson (Maine).
Bob Watson will represent this Section on the review committee.

4. Roadways and Structures Section

1. Finalize the work plan for next year
2. Complete our review of Section 200 & 800
3. Find examples of best practices for improving project delivery for roadway pavement and structures (i.e. Constructability Reviews)
4. Cathy Nicholas volunteered to do something similar Tid Bit (Create a web site to share information)
5. Guide spec for light weight profilometer
6. Continue to Review Guide Spec, Section 200 & 800 of the specifications to work on its review due for next year presentation to subcommittee. Mr. Greg Doyle will review the 800.

Ideas for presentations next year

- Performance specifications
- Concrete
- Asphalt
- Demo of Profile Viewer Analysis software
- Balance cantilever bridge (Failure)
- Success Construction Stories

5. Research Steering Committee

1. Record definitions, process and deadlines for submitting problem statements, (Synthesis of practice, 20-7 projects, NCHRP projects by SOC sections for distribution to new members.
2. Redistribute to membership the previously completed NCHRP 10-58 strategic study plan which included a priority list of statements. www.trb.org search on 10-58 second topic.
3. From the Roadway and Structures Section- Mark EliceGUI (Nevada) working David Graham will submit a problem statement concerning **Temperature differentials in large diameter drilled shafts** – This may be a synthesis project.
4. From the Contract Administration Task Force- Cal Gendreau (North Dakota) will submit a problem statement concerning **Delay claim analysis methods – what items are compensable?** This may be a synthesis of practice.
5. From Computers and Technology- Dexter Newman (Kentucky) will submit a problem statement concerning Inventory **systems for tracking construction materials**. This fits in somewhat with #10 off the strategic plan.
6. The research section is proposing to work the TRB Construction Section to develop a special Edition of TRB News on **Raising the Bar on Building Quality into Accelerated Construction Schedules while meeting Tomorrow Challenges**.