



November 7, 2024

Meeting Agenda – Concrete Technical Committee

Location: ASL Conference Room, Truax Office, Madison and MS Teams
Date: November 7, 2024
Time: 9:00 AM to 12:00 PM

Attendance

Bureau of Technical Services (BTS):

- ☐ Barry Paye – Director
- ☒ Erik Lyngdal – Chief Materials and Pavements Engineer
- ☒ Tirupan Mandal – Concrete Materials Unit Supervisor
- ☐ Peter Kemp – Pavement Unit Supervisor
- ☒ Aleksandra Graff – Concrete Engineer
- ☒ Adam Albers – Concrete Materials Lab Engineer
- ☒ Adam Johnson – Independent Assurance Program Coordinator
- ☒ Etienne Nkongolo – Concrete Engineer Consultant (Behnke Materials)

Bureau of Project Development (BPD):

- ☒ Mark Zander – Construction Standards Engineer
- ☒ Craig Pringle – Construction Oversight Engineer

Bureau of Structures (BOS):

- ☐ Aaron Bonk – Chief Structures Design Engineer

Bureau of Aeronautics (BOA):

- ☒ Lucas Ward – Chief Airport Construction Standards

Regional Representatives:

- ☐ *Vacant* – NE Region TSS Chief – Management Liaison
- ☐ Travis Mikshowsky – SW TSS Supervisor – TSS Liaison
- ☒ Matt Smith – SW Region Independent Assurance
- ☒ Bryton Meyer – SW Region Soils and Materials Engineer
- ☒ Nicole Roberts – SE Region Materials Engineer
- ☐ Eric D Hanson – SE Freeways Project Manager
- ☒ Jeff Bruesewitz – SE Freeways IA Specialist/Mega Material Engineer
- ☒ Brent Ferguson – NC Region Independent Assurance
- ☐ Devin Harings – NW Region Pavement Engineer
- ☒ Matt Bertucci – NE Region Pavement Engineer

FHWA Members –

- ☐ James Pforr – Pavement & Materials/Asset Management Engineer



Industry Members –

- ☒ Ben Thompson – American Council of Engineering Companies Liaison
- ☒ Ed Anastas – A.W. Oakes
- ☐ Brian Luchene – BARD Materials
- ☒ Signe Reichelt – Behnke Materials
- ☒ Paul Mathe – Carew Concrete
- ☐ Barry Bohman – Chippewa Concrete Services
- ☐ David Meyer – Continental Cement Company
- ☒ Nicholas Bowers – Continental Cement Company
- ☐ Dave Stanke – Kraemer North America
- ☐ Brian Borowski – Lafarge/Holcim
- ☐ Mark LaLonde – LaLonde Contractors
- ☐ Brad Diener – Lunda Construction
- ☐ John McConahy – Mapei
- ☒ Scott Grams – Michels Road & Stone
- ☐ Tom Ptaschinski – Ptaschinski Construction Company
- ☒ Anna Romenesko – Sommers Construction
- ☒ James Palmer – St. Mary's Cement Company
- ☐ Benny Walker – Todds Redi-Mix Concrete
- ☐ Matt Trierweiler – Trierweiler Construction Company
- ☒ Heath Schopf – Vinton Construction Company
- ☐ Jackie Spoor – Wisconsin Concrete Pavement Association
- ☒ Leslie Ashauer – Wisconsin Concrete Pavement Association
- ☐ Cherish Schwenn – Wisconsin Ready Mixed Concrete Association
- ☒ Matt Grove – Wisconsin Transportation Builders Association
- ☒ Andrea Breen – Zignego Ready Mix
- ☐ Tony Zignego – Zignego Company

Resource Members (as needed) –

- ☐ Brian Boothby – BPD Construction Oversight and Automation Chief
- ☒ Laura Shadewald – BOS Structures Development Chief
- ☐ Myungook (MK) Kang – BTS Quality Assurance Supervisor
- ☒ Linette Rizos – BTS Quality Assurance and Sustainability Engineer
- ☒ Chad Hayes – BPD Construction Oversight Engineer
- ☒ Zach Dittberner – Michels Road & Stone
- ☒ Tom Sand – Vinton Concrete Construction

Guests –

- ☒ Michael Dickey – BTS New Products Engineer
- ☒ Benjie Hayek – FHWA Transportation Engineer

Agenda Items

1. Welcome and Introductions – T. Mandal (5 min)
 - Goings:
 - Alan Rommel – NE Region TSS Chief – Management Liaison
 - Incomings:



- Ben Thompson – American Council of Engineering Companies Liaison
 - CTC meeting times for 2025 have been established. January meeting to be in-person only.
- 2. Review of Action Items – T. Mandal (10 min)
- 3. MOTP – A. Albers (10 min)
 - Spring MOTP Update – Water Test
 - Concrete Mixing Water WTP C-001: Additional information has been incorporated into Section 1 concerning sampling requirements, specifying the necessary size and type of container for water sampling. BTS will check with regional IAs and lab coordinators regarding the utilization of sample containers.
 - BTS to check permeability test requirement for lab qualification application. It references WTP but the WTP for that test method is not listed in the MOTP.
- 4. Charter – T. Mandal (5 min)
 - Charter goals for 2024-2026 and membership list have been updated.
- 5. HTCP PCC Mix Design Certification Course – T. Mandal (10 min)
 - New HTCP class for WisDOT personnel and consultants that will be reviewing and approving the concrete mix design. The schedule for this course can be found on the HTCP website. This will be an in-person class, without a laboratory component, concentrating on the proper methods for reviewing concrete mix designs.
 - Industry (contractors) want to know what WisDOT requirements are and where they can find the manual. The manual will be posted online on the HTCP website. BTS will provide a link to the course manual once it is accessible. It is important to note that the submittal process for contractors will remain unchanged, as the focus of the class is solely on the reviewers.
 - Certification for personnel involved in the review of mix designs will be required in 2026.
- 6. WHRP Research Updates – T. Mandal/ A. Graff (20 min)
 - Chemistry and Performance of SCMs for Wisconsin Concrete Pavement
 - WHRP just received the final draft report, which is now being reviewed. The final report will be available in January.
 - Alternative Conditioning Method to Calculate Formation Factor for Wisconsin Concrete Pavement
 - Project is on track with no major updates.
 - Proactive Prevention of Pavement Buckling
 - Project is on track with no major updates.
 - Optimization of Dowel Bars in Concrete Pavements



- Kickoff meeting was recently held, and the project was awarded to Marquette University.

7. Task Force Updates – A. Graff (20 min)

- Fast Track
 - Task force has resumed, and the first meeting was held in October to review status of outstanding items and set future goals.
- Task Forces on Hold:
 - Concrete Strength
 - This task force will resume in Spring 2025. No meeting scheduled yet.
 - Curb Shear
 - This project is nearly complete, WisDOT will consider resuming the task force in Spring 2025 to review and finalize the findings. Regions have the data for this task force.
 - Buckling Research
 - PEM Research

8. APL Process – T. Mandal (20 min)

- The APL process documents for horizontal repair, vertical and overhead repair, non-shrink grout, cement, fly ash, and admixtures have been sent to the committee for review. Vertical and overhead repair material is a new category that will be added to the APL list due to numerous project level requests for approval. The APL process changes are updated and reflected in WisDOT Standard Specification Sections 416 and 509. The proposed spec changes were sent to the committee for review.
- Key points and updates in the APL process document was presented.
- Products are currently listed under pre-qualified product list on the APL page, which is contingent upon the bid closing date. A new section will be created under approved or qualified products for horizontal repair, vertical and overhead repair, non-shrink grout, cement, fly ash, and admixtures.
- J. Palmer with St. Mary's Cement discussed Illinois DOT's participation in the AASHTO PEAS cement evaluation program. Illinois DOT still maintains control of their approved list and cement suppliers, which must be enrolled with AASHTO PEAS. Cement suppliers view AASHTO PEAS program as redundant since they already get inspected through CCRL/AASHTO.
- Originally, AASHTO PEAS cement evaluation program was designed to alleviate the inspection and testing responsibilities of the states, however, it has resulted in overlapping duties with some of the CCRL inspection tasks.



- Regarding the admixture process document, following discussions, WisDOT will consider eliminating the dosage rate requirement, as it is challenging to consistently provide this information during the approval process.
- **Action Item:** Send any comments you may have regarding the APL documents and the suggested modifications to Standard Specification Sections 416 and 509 to T. Mandal by November 22, 2024.

9. Use of Roller Screed – J. Spoor (10 min)

- The industry is advocating for an update to the specifications concerning roller screeds, which are currently employed for finishing concrete surfaces in repair and replacement projects. Although there is ongoing discussion regarding their effectiveness, roller screeds are presently utilized in conjunction with spud vibrators to compensate for the insufficient vibration produced by the roller screed itself.
- Over the past decade, roller screeds have been implemented in numerous projects by WisDOT, and laser screeds can be classified similarly to roller screeds.
- The history is unclear on why the department specs regarding roller screeds are written the way they are. Contractors express a desire for the decision to be left to the engineer, particularly regarding the achievement of cross slopes and other paving standards.
- Sections 415.3.2.3 and 415.3.6.3 contain the specification language pertaining to roller screeds that requires revision. The industry intends to review and propose updated language for WisDOT's consideration and evaluation.

10. Update on IRI specs

- The SPV has been submitted for FHWA for review. The full spec is still being drafted and reviewed.
- FHWA should have the document reviewed and returned to WisDOT shortly.

11. WisDOT DT form spreadsheet errors

- S. Grams has brought up spreadsheet errors to the committee before that haven't been addressed. S. Grams will compile a list of these errors and forward it to T. Mandal and A. Graff for rectification.

12. E-Ticketing

- A. Breen would like to know what the e-ticketing thresholds for pavements are.
- The proposed threshold for pavements is set at 20,000 square yards, with plans for this to be implemented as an SPV in 2026.

Review of Action Items

1. Adjustment to Pay for Crack Repair - WCPA to send proposed revisions to WisDOT. WisDOT will review the proposed revisions and respond to WCPA.



- WCPA sent proposal to BTS with adjusted total reimbursement crack repair pay equation and the Post Placement Damage. BTS agreed that proposed pavement crack repair pay equation should be used. Updated specification language proposed by WCPA to be reviewed by BTS for future implementation. Crack repair equation changes to be implemented in 2026.

Upcoming Meetings

2024		
November 7, 2024	9:00 am to 12:00 pm	CTC
2025		
January 5-9, 20245		TRB Annual Meeting
January 16-17, 2025		WTBA Contractor-Engineer Conference
January 23, 2025	9:00 am to 12:00 pm (In Person Only)	CTC
January 30-31, 2025		WMRCA Conference
February 13-14, 2025		WCPA Annual Meeting
May 15, 2025	9:00 am to 12:00 pm	CTC
April 8-10, 2025		National Concrete Consortium
August 14, 2025	9:00 am to 12:00 pm	CTC
November 13, 2025	9:00 am to 12:00 pm	CTC