



# January 23, 2025

## Meeting Agenda – Concrete Technical Committee

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**Location:** State Patrol Conference Room, Truax Office, Madison

**Date:** January 23, 2025

**Time:** 9:00 AM to 12:00 PM

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### 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)
- ☒ Jeff Bruesewitz – Geologist

#### *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
- ☐ 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 –**

- ☒ Sam Martinez – 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
- ☒ Jeff 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

**Agenda Items**

1. Welcome and Introductions – T. Mandal (5 min)
  - Sam Martinez – American Council of Engineering Companies Liaison
  - Jeff Zignego – Zignego Company
2. Review of Action Items – T. Mandal (10 min)
3. MOTP – A. Albers (5 min)



- Updated MOTP was published in December for January 2025 lets.
  - Updates related to concrete procedures include: T22, T24, T97, T152, T309, WTP-C001.
  - Deadline for submitting requests for future updates will be August 1.
4. WHRP Research Updates – T. Mandal/ A. Graff (20 min)
- Chemistry and Performance of SCMs for Wisconsin Concrete Pavement
    - Completed, and final report should be out by the end of February.
  - Alternative Conditioning Method to Calculate Formation Factor for Wisconsin Concrete Pavement
    - Still ongoing. Researchers found some discrepancies in the data that may require further testing, such as petrography.
  - Proactive Prevention of Pavement Buckling
    - Still Ongoing. Researchers are running simulations. These researchers are the same as the optimization of dowel bars research team.
  - Optimization of Dowel Bars in Concrete Pavements
    - Initial meeting with researchers was held to discuss the work plan and will meet again this spring.
5. HTCP PCC Mix Design Certification Course – T. Mandal (5 min)
- First class being held at the end of January. WisDOT will use an ASP-6 to modify spec language about the new certification.
  - Manuals will be available at the HTCP website before the first class is held.
6. Standard Spec and CMM Changes – A. Graff (30 min)
- Summary of spec changes:

Section	Sub-section	Changes
SS 390	390.3.2	Curing compound for base patches
SS 415	415.5.3	Updated crack repair equation
SS 416	416.2.1	Added language on non-chloride accelerator
	416.2.4.1	APL language for horizontal rapid set patch materials
SS 509	509.2	APL language for non-shrink grout and rapid patch materials
SS 501	501.2.4.1	APL language for cement
	501.2.4.2.2.3	APL language for F ash
	501.2.5	APL language for admixtures
SS 701	701.1.2.2	Material Placement Notification
	701.1.3	Material Placement Notification
	701.3.1	Temperature standard
SS 710	710.4	Mix Design Modification Levels
	710.4	HES language
	710.5.5	Printout language

	710.5.6.2.1	Aggregate Testing Frequency (QC and QV)
SS 715	715.1.1.2	Small quantities
	715.3.1.2.3	Sublot change
	715.3.2.1	Strength Evaluation
	715.5.1	Disincentive bid items
	715.5.1	Super and sub structures
	715.5.3	Pay adjustments
CMM 424	424.8	Rain-damaged pavement
CMM 810	810.5.1	Non-conforming aggregate gradation; Removed air, slump, delivery time pay adjustments
CMM 835	835.2.1.3	Department review of concrete mix design
	835.4.3	Small quantities
CMM 870	870.2.1.3.2.2	Aggregate testing
	870.2.1.4	Admixtures
	870.4.6	Beams and cylinders; graph example
	870.4.7.1.1.6	MITScan plates
CMM ###	TBD	Material Placement Notification Guidance

- All spec changes were presented and discussed during the meeting. Spec changes will be made through an ASP-6 for projects following that publishing.
- **Action Item:** Send T. Mandal any comments on the spec changes by **February 7<sup>th</sup>, 2025**.

#### 7. HPC SPV – A. Graff (15 min)

- The HPC SPV is still in development; once complete it will be sent to the CTC for review.
- HPC is targeted for implementing F&T testing and PWL. Implementation will begin with pilot projects.

#### 8. Missed Test Memo – T. Mandal (10 min)

- Discussed that a missed test memo for department missed tests will be distributed shortly.

#### 9. Task Force Updates – A. Graff/ M. Kang/ L. Rizos (15 min)

- Fast Track
  - Initial meeting held. No updates currently.
- IRI TF Update
  - I-41 project has been identified for piloting the SPV.
  - Design objectives are being considered.
- Task Forces on Hold:
  - Concrete Strength
    - No updates.
  - Curb Shear



- No updates.

- Buckling Research
- PEM Research

10. APL Process – T. Mandal (5 min)

- Cement and fly ash updates are available online.
- Rapid set and non-shrink grout will be updated soon.

11. Construction Inspection Training Recap – WCPA/BTS (10 min)

- Having the training in January was successful compared to holding them in the spring.
- There were waitlists for the training, with full attendance.

12. WCPA Annual Conference and Round Tables – WCPA (10 min)

- WCPA conference is on February 13<sup>th</sup> and 14<sup>th</sup>.
- Round tables with the department will be on the day before the conference.

## Review of Action Items

1. Adjustment to Pay for Crack Repair.

- WisDOT reviewed the crack repair pay equation and is okay with the change. Further discussion is required with BPD for the “Adjusting Pay for Post Placement Pavement Removal and Replacement”, as suggested by WCPA.

## Upcoming Meetings

2025		
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