



# November 16, 2023

## Meeting Agenda – Concrete Technical Committee

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**Location:** Antigo Conference Room, Truax Office, Madison & TEAMS  
**Date:** November 16, 2023  
**Time:** 1:00 PM to 4:00 PM

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### Attendance

#### Committee Members:

##### **WisDOT Members –**

##### *Bureau of Technical Services (BTS):*

- Barry Paye – Director
- Erik Lyngdal – Chief Materials and Pavements Engineer
- Tirupan Mandal – Concrete Materials Supervisor
- Peter Kemp – Pavement Unit Supervisor
- Aleksandra Graff – Concrete Engineer
- Adam Albers – Concrete Materials Lab Engineer
- Vacant* – Pavement Policy and Research Engineer
- Adam Johnson – Independent Assurance Program Coordinator
- Mark Finnell – 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:*

- Alan Rommel – NE Region TSS Chief – Management Liaison
- Travis Mikshowsky – SW TSS Supervisor – TSS Liaison
- Matt Smith – SW Region Independent Assurance
- 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 –**

- Sara Shoenmann – 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
- 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
- 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
- Kevin McMullen – Wisconsin Concrete Pavement Association
- Leslie Hidde – Wisconsin Concrete Pavement Association
- Cherish Schwenn – Wisconsin Ready Mixed Concrete Association
- Matt Grove – Wisconsin Transportation Builders Association
- David Burt – Zenith Tech
- Andrea Breen – Zignego Ready Mix
- Tony Zignego – Zignego Company

**Resource Members (as needed) –**

- Brandon Lamers – BPD Deputy Director
- 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
- Sean LePlavy – Michels Road & Stone (in place of Zach Dittberner)
- Tom Sand – Vinton Concrete Construction

**Guests –**

- Cory Gruse – LaLonde Contractors
- Tyler Rongstad – BPD Engineering Chief

**Agenda Items**

1. Welcome and Introductions – T. Mandal (5 min)
  - Linette Rizos – BTS QA and Sustainability Engineer
  - Brian Luchene – BARD Materials



- Nicole Roberts – WisDOT SE Region
  - Tyler Rongstad to replace Brandon Lamers in CTC
- 2. Review of Action Items – T. Mandal (10 min)
- 3. ASP 6 – T. Mandal (10 min)
  - The latest ASP 6 (effective with Nov. 2023 letting) was shown to the committee where the language for Standard Specifications (SS) 503 (Prestressed Concrete Members) now references SS 310 instead of SS 501 for the aggregate gradation table.
- 4. MOTP – A. Albers (15 min)
  - Spring MOTP Update
  - CMM Update
    - MOTP is posted online and active for November 2023 letting. Current Location:
      - WisDOT's Quality Management Program (QMP) Website  
<https://wisconsin.gov/pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
      - Quick link to the QMP site also on the bid letting website  
<https://wisconsin.gov/Pages/doing-bus/contractors/hcci/ctrct-info.aspx>
    - A reminder that the MOTP includes two types of items – Wisconsin Test Modified (WTM) and Wisconsin Test Procedure (WTP).
    - A. Albers will be sending an email for any revisions/additions to the MOTP in the Spring 2024 update. MOTP review schedule will follow the same schedule as the Standard Spec.
    - **Action Item:** M. Zander will check if the MOTP document/link can be placed on the Roadway Standards page (<https://wisconsin.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/rdwy/default.aspx>)
    - Procedures that moved to MOTP will be removed from CMM.
- 5. WHRP Research Updates – P. Kemp/ M. Finnell/ T. Mandal (20 min)
  - Field Investigation of Dowel and Tie Bar Placement
    - Successfully collected data on 10 out of 12 projects. Issues with traffic control prevented testing on the remaining 2 projects.
    - No evaluation of the data yet. Results will be shared with the POC in the next few months.
  - Timely and Uniform Application of Curing Materials
    - Project data is expected in December 2023/January 2024. The project is on track to finish by December 2024.



- The research team is looking for an early 2024 paving project (May timeline) to reverify the data gathered in this study.
  - Chemistry and Performance of SCMs for Wisconsin Concrete Pavement
    - Most of the physical and chemical test results are complete. It was slightly delayed due to equipment calibration and some raw material availability. The project is on track to finish by December 2024.
    - The research team is making mixes but has had issues procuring aggregate.
  - Alternative Conditioning Method to Calculate Formation Factor for Wisconsin Concrete Pavement
    - Awarded in October 2023 to American Engineering Testing, Inc.
  - Proactive Prevention of Pavement Buckling
    - Awarded in October 2023 to Marquette University.
6. Task Force Updates – M. Finnell/ A. Graff (20 min)
- Spec Re-Org
    - The task force has reviewed the "General Concrete Requirements" and "Category I Concrete Mixtures (Pavement)" chapters. They have been meeting to discuss these topics.
  - AASHTO Product Evaluation and Audit Solutions (NTPEP)
    - WisDOT does not plan on participating in the cement audit process through AASHTO PEAS (NTPEP) in 2024. This program is currently on hold. Furthermore, neighboring states are not using it either. The NTPEP language in the APL will be updated to reflect these changes.
  - Task Forces on Hold:
    - Fast Track
    - Curb Shear
    - Structure Aggregate
    - Buckling Research
    - PEM Research
7. Regional Meetings with WCPA – WCPA (15 min)
- WCPA needs to know who should be contacted for setting up the regional meeting.
  - **Action item:** WisDOT to send WCPA regional contact person information.
8. Concrete Inspection Training – WCPA (10 min)
- Last year, one online meeting was scheduled for all the regions. This year, WCPA plans to organize in-person meetings in three different regions.



- WCPA and WisDOT will collaborate to enhance the training program, which will be conducted by instructors from both WCPA and WisDOT.
- **Action item:** WisDOT to discuss and let WCPA know who from WisDOT will be instructing this training.

#### 9. E-Ticketing Update – E. Lyngdal (10 min)

- Case studies learned from manufacturers that they would allow the state access to the project, and they can download the tickets. The next step is to develop an API that allows the system to submit the tickets directly to the state's repository system.
- At present, cement plant manufacturers cannot program a system that can meet the specifications of individual states in a standardized manner. Contractors who are using mobile plants will face greater difficulty in transitioning to e-ticketing, and it will also impose a financial burden. The adoption of e-ticketing is also hindered by aging equipment. Many plants would require significant computer upgrades to be able to compete effectively in bids.
- The plan is to have projects requiring e-ticketing in 2025 and full implementation in 2026.
- WCPA asked if the e-ticketing can be added as a bid item and if there will be an incentive for using this system.

#### 10. MIT Scan – P. Kemp

- BTS did MIT scans on certain projects that use DBI (projects with baskets were not tested due to software limitations). The purpose of the scans was to assess the performance of joints and the placement of dowel bars.
- MIT Scan data was presented showing how measurement and feedback can improve dowel bar placement.

#### 11. Others

- Adjustment to pay for crack repair – WCPA
  - The \$1700 pay factor in SS 415.5.3 was established in 2015. Need to look at the pay factor and make adjustments for inflation.
  - **Action item:** WCPA to send proposed revisions to WisDOT. WisDOT will review the proposed revisions and respond to WCPA.
- AASHTO T97 – M. Finnell
  - The beam breaking time tolerances table will be added to MOTP in WTM T97 as AASHTO T97 does not have the tolerance table, unlike AASHTO T22.



## Review of Action Items from Last Quarter Meeting

1. BTS to follow-up on sawcut depth standard drawing (d/3)
  - No progress has been made. No issues since the beginning of the construction season.
  - WCPA needs a schedule for when this will be added as contractors use it to assess risk.
  - With the PS&E schedule, the updated drawing will be published contemporaneously with the standard detail revisions and PS&E schedule.
- ~~2. WCPA to send member information for BARD Materials~~
- ~~3. Mandal to update the website with CTC QTR#2 meeting minutes~~
- ~~4. Mandal to send draft ASP-6 for review to CTC members~~
- ~~5. WisDOT to send an updated version of MOTP and CMM to CTC members for review~~
6. WisDOT to follow up on the MOTP location
  - Addressed in agenda item #4.
- ~~7. Mandal to send CTC members contact information for Josh Hammer~~

## Upcoming Meetings

2024		
January 7-11, 2024		TRB Annual Meeting
January 18-19, 2024		WTBA Contractor-Engineer Conference
January 18-19, 2024		WMRCA Conference
<b>January 25, 2024</b>	<b>9:00 am to 12:00 pm – In Person</b>	<b>CTC</b>
February 15-16, 2024		WCPA Annual Meeting
<b>May 16, 2024</b>	<b>9:00 am to 12:00 pm</b>	<b>CTC</b>
April 9-11, 2024		National Concrete Consortium
<b>August 15, 2024</b>	<b>9:00 am to 12:00 pm</b>	<b>CTC</b>
<b>November 14, 2024</b>	<b>9:00 am to 12:00 pm</b>	<b>CTC</b>