



August 11, 2022

Meeting Minutes – Concrete Technical Committee

Location: Teams Meeting
Date: August 11, 2022
Time: 9:00 am to 12:00 pm

Attendance

Committee Members:

WisDOT Members –

Bureau of Technical Services (BTS):

- Barry Paye – Director
- Erik Lyngdal – Chief Materials Engineer
- Jim Parry – Quality Assurance Supervisor
- Leslie Hidde – Concrete Quality Assurance Engineer
- Deb Bischoff – QMP Engineer
- Peter Kemp – Pavement Unit Supervisor
- Ali Arabzadeh – Pavement Policy and Research Engineer
- Adam Johnson – Independent Assurance Program Coordinator
- Mark Finnell – Concrete Engineer Consultant (Behnke Materials)
- Signe Reichelt – Test Procedure Manual 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
- Paulo Florio – SW Region Soils & Materials Engineer
- Matt Smith – SW Region Independent Assurance
- Kurt Flierl – SE Region Construction Project Manager
- Vacant* – SE Freeways Design/Construction Interface 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 –

- Vacant* – American Council of Engineering Companies Liaison
- Ed Anastas – A.W. Oakes
- Eric Glendenning – BARD 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 – *Sub Eric Schmeling*
- 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
- Mike Hammitt – Trierweiler Construction Company
- Heath Schopf – Vinton Construction Company
- Jackie Spoor – Wisconsin Concrete Pavement Association
- Kevin McMullen – Wisconsin Concrete Pavement Association
- Cherish Schwenn – Wisconsin Ready Mixed Concrete Association
- Matt Grove – Wisconsin Transportation Builders Association
- Brad Diener – Zenith Tech
- Andrea Breen – Zignego Ready Mix

Resource Members (as needed) –

- Tirupan Mandal – BTS Concrete Lab Supervisor – Aggregate Tech Committee Chair
- Brandon Lamers – BPD Construction Oversight, Standards, & Local Program Chief
- Chad Hayes – BPD Construction Oversight Engineer
- Adam Albers – BTS Concrete Materials Lab Coordinator
- Zach Dittberner – Michels Road & Stone
- Tony Zignego – Zignego Company

Guest(s) –

- Tom Sand – Vinton Construction Company

Agenda Items

1. Welcome and Introductions – L Hidde (~5 min)
 - a. Review etiquette during virtual meeting
 - b. Recording of Meeting
 - c. Reminder:
 - i. Meeting Guests need to be communicated to Chair PRIOR to the meeting.
 - d. Introduction of New Members
 - i. Lucas Ward, Tirupan Mandal



2. Review and Finalize Minutes – L Hidde (~5 min)
 - a. June 16, 2022 - **APPROVED AS WRITTEN**
3. IRI Specification Concerns – J Spoor / K McMullen (~15 min)
 - a. **Concerns with where IRI is applied. Example: Add on lane adjacent to a 30 year old pavement.**
 - b. **Diamond Grinding – rural**
 - i. **Can't grind more than 3/4"**
 - ii. **Diamond Grinding spec and Ride Spec are in conflict with each other.**
4. CMM Updates – L Hidde (~45 min)
 - a. **Discussed the changes to CMM 834, 835, 870, 871.**
5. 2023 ASP 6 **NOV 2022 LET** – L Hidde (~5 min)
 - a. Opening Strength of 2,000 psi for:
 - i. 416.1710 Concrete Pavement Repair
 - ii. 416.1715 Concrete Pavement Repair SHES
 - iii. 416.1720 Concrete Pavement Replacement
 - iv. 416.1725 Concrete Pavement Replacement SHES
 - b. Simplify SS 710.5.7 Corrective Action for OAG
 - c. **Will SS 390 also go to 2000 psi opening strength? SS 390 and 320 are already at 2000 psi opening.**
6. 2024 Spec Updates – L Hidde (~10 min)
 - a. Remove SAM Testing from projects
 - b. Apply sublots less than 25% of standard volume allowed to be rolled into previous sublot for Class II.
 - c. Remove testing by Lane-Feet and make testing all by CY. – **Potentially move to 2025 many factors to flush out first: HTCP, qty of testing, potential payment switch to CY**
7. 2025 Spec Updates – L Hidde (~15 min)
 - a. Class II HTCP PCC II Certified for Mix Designs
 - b. Surface Resistivity Testing for Mix Designs
 - i. **Address the maximum cementitious at the same time?**
 - c. SAM requiring MinT for mix design trial batching
 - i. **This will be added in 2024. The test procedure for SAM (AASHTO T395, formerly TP118) is modified to state when MinT is required and this will be effective with the 2024 Spec and the MOTP.**
8. Rollout of Spec Updates – E Lyngdal (~5 min)
 - a. **AWPm is coming and that will require reorganization of the spec**



b. FHWA comprehensive review of PCC. Need to address some items that have been found in that report

9. F&t Analysis – L Hidde (~10 min)

- a. Strength and Air

10. Technical Committee Charter – L Hidde (~10 min)

- a. Located in BOX
- b. Finalize at November 17, 2022 meeting

11. Tech Team Updates (~25 min)

- a. Fast Track – K McMullen / J Spoor / L Hidde

- i. Materials & Constructability

- 1. Opening strength to 2000 psi

- a. FHWA Manual on Pavement Preservation
 - b. IRise? (sp)

- 2. Maturity Curve – struggling due to how fast the concrete gains strength and is the traditional maturity curve accurate for this application. Group will be looking into some other alternatives that are being developed or go back to a simpler process
 - 3. CRCP base patching requirements to be discussed.
 - 4. Overcuts being discussed.
 - 5. Epoxy Anchors being discussed.

- ii. Education

- 1. The group has defined different avenues for who and how to educate.
 - 2. This group is waiting for other things from the other 2 groups to move forward.

- iii. Spec / CMM / FDM

- 1. SS 416 will be the section for Fast Track moving forward.
 - 2. Current items in 416 that are not Fast Track will be moved out and placed in appropriate spec sections.

b. Curb Shear – K McMullen

- i. It's a statewide issue, not just regional.

- ii. Expansion material and installation of it are being discussed.

- 1. Specifically, expansion material is not being installed full depth and concrete is getting underneath it.
 - 2. Potentially define where different expansion materials are allowed to be placed.



- iii. Further breakdown of Region data is being performed.
- iv. Feedback:
 - 1. Thickened edge needs to be considered and is recommended for analysis by multiple contractors.
- c. SAM – L Hidde
 - i. Disbanded 07/2022
- d. Structure Aggregate – L Hidde
 - i. First meeting was in July and started getting the ground work for understanding the issue from all sides.
- e. Buckling Research – L Hidde
 - i. Will be starting in mid-fall.
- f. PEM Research – L Hidde
 - i. Will be starting mid-fall to late year.

12. Other

Action Items – CURRENT

- 1. Proposed CMM updates to CTC
- 2. Task Force membership

Action Items – OLD

- 1. CMM Updates – L Hidde / M Finnell (August 2022)

Action Items – Long Term

- 1. Concrete Strength Task Force – L Hidde / M Finnell – ON HOLD UNTIL WHRP Study Complete

Upcoming Meetings

| 2022 | | |
|-------------------------|---------------------|------------------------------|
| August 11, 2022 | 9:00 am to 12:00 pm | CPTC |
| August 12, 2022 | 8:00 am to 10:00 am | TF: Fast Track - CANCELED |
| August 29, 2022 | 9:00 am to 11:00 am | TF: Curb Shear - CANCELED |
| September 15, 2022 | 8:30 am to 10:00 am | TF: Structure Aggregate |
| September 16, 2022 | 8:00 am to 10:00 am | TF: Fast Track |
| September 26, 2022 | 9:00 am to 11:00 am | TF: Curb Shear |
| September 27 – 29, 2022 | | National Concrete Consortium |
| October 14, 2022 | 8:00 am to 10:00 am | TF: Fast Track |
| October 24, 2022 | 9:00 am to 11:00 am | TF: Curb Shear |
| November 11, 2022 | 8:00 am to 10:00 am | TF: Fast Track |
| November 17, 2022 | 9:00 am to 12:00 pm | CPTC |
| November 28, 2022 | 9:00 am to 11:00 am | TF: Curb Shear |
| December 16, 2022 | 8:00 am to 10:00 am | TF: Fast Track |