

November 17, 2022 Meeting Minutes – Concrete Technical Committee

Date: November 17, 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
- I 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
- Solution 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) –

 \boxtimes Tom Sand – Vinton Concrete Construction

Agenda Items

- 1. Welcome and Introductions L Hidde (~5 min)
 - a. Review etiquette during virtual meeting
 - b. Recording of Meeting
 - c. Guests need to be communicated to the CTC Chair PRIOR to the meeting.
- 2. Review and Finalize Minutes L Hidde (~5 min)
 - a. August 11, 2022 APPROVED AS WRITTEN
- 3. Review of Action Items L Hidde (~10 min)
- 4. Technical Committee Charter L Hidde (~10 min)



- a. Located in BOX: <u>https://wisdot.box.com/s/olukb4ylw6f857605s6p6flrl22vdplp</u>
- b. Review charter and send comments to Leslie by November 30.
- 5. Task Force Updates (~50 min)
 - a. Fast Track M Finnell / K McMullen / J Spoor / L Hidde
 - i. Materials & Constructability
 - Maturity Curve not relying on maturity for means of acceptance is being discussed.
 - 2. Discussion on removing prescriptive mixes.
 - 3. CCAW discussion on how Repair/Replacement items are paid.
 - ii. Education
 - 1. Merging in with Spec/CMM/FDM group for the near future
 - 2. Educating on updates as they are approved/implemented
 - a. Listserv is primary source at this time.
 - b. Industry receives newsletters/emails/phone calls as appropriate.
 - c. Larger training will be planned and held when the major changes are implemented.
 - iii. Spec / CMM / FDM
 - 1. Making SS 416 only for Concrete Repair/Replacement
 - 2. The following are proposed changes to the 2024 SS:
 - a. SS 415: Added Truck Aprons -Now Class I
 - b. SS 416: Moved out Surface Drains, Truck Aprons, Driveways, Rumble Strips
 - c. SS 601: Added crack language (moved out of SS 416)
 - d. SS 602: Added Surface Drains, Driveway, Rumble Strips
 - b. Curb Shear K McMullen
 - i. Proceeding with recommending the following:
 - 1. Extend felt 1" below adjacent concrete (2024 spec)
 - 2. Discouraging use of Bricks in medians (May 2024 FDM)
 - 3. Add back of curb expansion material still discussing width
 - Defining a different expansion material in certain circumstances (2024 spec)
 - a. Nomaflex / X-Foam
 - ii. Contractor discussion from CTC meeting:
 - 1. Nomaflex has a concern with volume stability in the heat of the summer.



- 2. Was a thickened edge discussed? This was discussed in regards to the medians, but not with just sidewalk abutting the back of curb. Contractors shared preference for a thickened edge versus a thickened curb head.
- 3. Concern with proceeding with a wider curb head due to constructability.
- c. Structure Aggregate L Hidde
 - i. An option has been presented and the group is analyzing its viability.
 - ii. The group is looking only at structure aggregate. When a decision is made for structure aggregate, the other areas of concrete will be looked at also.
- d. Buckling Research L Hidde
 - i. Finalizing membership. Kick off meeting to occur in Dec 2022 or Jan 2023.
- e. PEM Research M Finnell
 - i. Finalizing membership. First meeting in early 2023.
- 6. Resistivity Testing 101 M Finnell (~15 min)
 - a. Contractor Feedback:
 - i. Drastically different values in field from mix design.
- 7. SAM Meter: Keep or Not to Keep? J Parry (~5 min)
 - a. Implementation of SAM is on indefinite hold. Shadow testing is removed for 2024 construction. SAM number during mix design is currently required and will continue to be going forward.
 - b. Encourage keeping/maintaining SAM meters currently owned.
 - c. Recommend delaying purchasing of new meters. SAM meter is being revised.
- 8. Other
 - a. Inter-Workgroup Task Force E Lyngdal / B Lamers
 - i. For "gray" area issues that cross over into multiple areas and not specifically lie in just one Tech Team, BPD and BTS will be putting together separate TF's.
 - ii. BTS and BPD Chiefs will be discussing issues of concern and determining who needs to be involved in Inter-Workgroup Task Forces as necessary.
 - iii. Inter-Workgroup topics can be brought to any affected technical committee. When bringing forth inter-workgroup topics, two pieces of information need to be provided:
 - 1. Clear identification of the problem that needs to be solved
 - 2. Identification of the affected stakeholders in the DOT and industry.
 - b. Rumble Strip M Zander
 - i. Changes for 2024 spec.
 - ii. After rumbles are ground, need to be sealed with silane sealer.



- c. Consider Elimination of for DT1926: Automatic controls and tolerance record for Portland Cement Concrete Plants – S Grams
- d. IRI Committee S Grams
 - i. Contractor Concerns:
 - 1. Concrete pavement repair transitioning to concrete pavement
 - 2. New pavement adjacent to existing pavement
 - ii. D Bischoff is the lead in setting up a committee for IRI Ride.
- e. Cold Weather Spec K McMullen
 - i. Contractor Concerns:
 - Contract timelines are not being considered in design for cold weather (October 15 thru May 15)
 - 2. Delays in project schedule not due to contractor(s) pushing to cold weather.

Action Items – CURRENT

- 1. CTC Charter Review and provide comments to Leslie by November 30 Everyone
- 2. Finalized Charter to CTC L Hidde (December 2022)
- 3. Proposed 2024 Spec changes to CTC L Hidde (December 2022)
- 4. Buckling Research TF Membership Finalized L Hidde (December 2022)
- 5. PEM Research TF Membership Finalized M Finnell (January 2023)
- 6. Review DT1926 and consider elimination L Hidde (January 2023)
- Rumble Strip spec & details to CTC M Zander (December 2022) COMPLETE

 Located in BOX: <u>https://wisdot.box.com/s/p06625rjb4fsd95cq7d6z3hk2a51kel8</u>

Action Items – OLD

- 1. CMM Updates L Hidde / M Finnell (August 2022) COMPLETE
- 2. Proposed CMM Updates to CTC L Hidde COMPLETE
- Task Force Membership L Hidde COMPLETE

 Documented in CTC Charter

Action Items – Long Term

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

Action Items – Sent to other Groups

1. IRI Committee Formation – J Parry / E Lyngdal

Inter-Workgroup Topics

- 1. Cold Weather Paving B Lamers / E Lyngdal
- 2. Concrete Payment Unit B Lamers / E Lyngdal



Upcoming Meetings

| 2022 | | |
|---------------------|---------------------|-------------------------------------|
| November 17, 2022 | 9:00 am to 12:00 pm | CTC |
| November 28, 2022 | 9:00 am to 11:00 am | TF: Curb Shear |
| December 15, 2022 | 8:30 am to 10:00 am | TF: Structure Aggregate |
| December 16, 2022 | 8:00 am to 10:00 am | TF: Fast Track |
| January 6, 2023 | 8:00 am to 10:00 am | TF: Fast Track |
| January 8-12, 2023 | | TRB |
| January 12-13, 2023 | | WRMCA |
| January 19-20, 2023 | | WTBA Contractor/Engineer Conference |
| January 23, 2022 | 9:00 am to 11:00 am | TF: Curb Shear |
| January 26, 2023* | 9:00 am to 12:00 pm | CTC (Hybrid Meeting) |
| February 8-10, 2023 | | WCPA Annual Conference |
| February 17, 2023 | 8:00 am to 10:00 am | TF: Fast Track |
| February 27, 2023 | 9:00 am to 11:00 am | TF: Curb Shear |
| March 17, 2023 | 8:00 am to 10:00 am | TF: Fast Track |
| March 27, 2023 | 9:00 am to 11:00 am | TF: Curb Shear |
| April 10-13, 2023 | | National Concrete Consortium |
| April 20, 2023* | 9:00 am to 12:00 pm | CTC |
| July 13, 2023 | 9:00 am to 12:00 pm | CPTC |
| November 16, 2023 | 9:00 am to 12:00 pm | CPTC |

*Moving meeting to avoid conferences that BTS/Industry is attending.