

# PMPC Executive Committee/Concrete Task Group Meeting Minutes

Date: June 20, 2019

Time: 8:30 am-10:00am

Location: Room 3402/HQ – Surfliner, 1120 N St, Sacramento

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Attendees: Sergio Aceves, Dan Speer, Ray Hopkins, Brandon Milar, Charley Rea, Keith Hoffman, Blair Anderson, Kuo-Wei Lee, Mark Hill, Kirk McDonald, Deepak Maskey, Cortney VanHook

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Meeting started with self-introduction, agenda review, and the following items were discussed:

1. Action Items from 3/25/2019 Meeting (All):

All action items are accomplished.

2. Introductory Urgent Issue (All):

Blair Anderson informed that provision of crack repair in the existing concrete pavement specification (section 40-1.03N(3)) allow treating partial-depth cracks with high molecular weight methacrylate but does not define extent of crack depth. Whenever cracks occur on the concrete pavements, many concrete cores are taken to determine the depth of cracks and end up back filling these cored holes. He clarified that the issue is not with materials but with workmanship and need to fix the existing specification pertaining to the depth of cracks and how to repair them.

EC members suggested to include concrete crack depth issue in CTG bin list and develop scoping document depending on its urgency and resource availability.

3. Evaluate the Revised Concrete Pavement Smoothness Specifications (Blair Anderson):

- I. List of projects with approved smoothness specification is created but not all projects have been awarded. About 5 to 6 projects are awarded and few will be constructed. There will not be enough smoothness data available for compiling and analyzing by 11/30/2019.
- II. EC members informed that Sponsors are looking for more work and recommended to extend due date if reasonable smoothness data is not available for milestone 2 "Collect/Compile Interim Data." In addition, EC members asked how much information will be available for reporting by 11/30/2019 for the milestone "Collect/Compile Interim Data."
- III. Milestone 1.a. "Provide Interim Report" is complete.

4. Precast Pavement - Phase II Enhanced Jobsite Quality (Keith Hoffman):

- I. Risk register will be sent out to CTG by 6/20/2019.
- II. CTG will review, accept based on the intent and completion of Work Product, and send to the EC for the final approval.

5. Use of 4x8 Cylinder for Compressive Strength Testing (Keith Hoffman):

- I. On the QA side, 4x8 cylinders will be used with 6X12 cylinders in pilot projects. This effort will not affect contract work.
- II. CTG informed that the 4x8 cylinder is covered under ACI training and will be IA compliant.
- III. The 4x8 cylinders cannot be used universally as the size of cylinders is determined by the aggregate sizes.

6. Concrete Mix Design Naming Protocol (Keith Hoffman):

- I. Overall work is on track and milestone 3 will be met.
- II. Suggestions were made to use following tolerances
  - a. Defined by MPQP to help differentiate between mixes
  - b. EPD tolerances
  - c. Concrete batch plant tolerances for concrete mix design

- III. DIME database has provision to put in bridge numbers and milestones but need unique mix number to manage mix design information for the structural concrete.
  - IV. METS will work internally within DES to resolve issue of tolerances, and if still not resolved then it will be sent through the process.
7. Recycled Crushed Concrete Aggregate for use in Cast In-Place Concrete Pavement (Keith Hoffman):
- I. Task Order is assigned to California Pavement Preservation (CP2) Center, Chico State University, for literature review for use of recycled crushed concrete aggregate, and report will be available to Working Group by August 30, 2019.
  - II. Working Group will be communicating with CP2 center.
  - III. Working Group will review the findings of CP2 Center and develop recommendation for the application of recycled crushed concrete aggregate in concrete pavements.
  - IV. EC members suggested Working Group should direct CP2 Center in the right direction according to the Working Product objectives.
8. Specifications for Concrete Pavements with Limited Construction Windows (Keith Hoffman):
- I. Moving forward. Don't expect any delays
9. CT 523 Method of Test for Flexural Strength of Concrete (Keith Hoffman):
- I. CTM draft is complete and routed for first circulation. Currently, on track to meet deadline of 7/5/19 for second milestone.
  - II. The new CTM 523 make sure that the correct version of ASTM is referenced within the CTM to maintain version control.
8. Review Bin List (Keith Hoffman):
- I. Priority 6, Support task associated with ongoing Type 1L research
    - a. Work on Type 1L will be based on the output of research from Oregon State.
    - b. The main priority of use of 1L cement is sustainability, and steering committee is meeting next month focusing on use of blended SCMs with Type 1L cement.
    - c. STG prefer a better idea on when work on Type 1L can be started.
  - II. EC suggested to keep bin list unchanged.
9. Round Table (All):
- I. Keith Hoffman proposed use of short scoping document instead of writing an entire scoping document (SD) in order to make an informed decision on whether it should move forward. The scoping document will be developed only after the approval of short scoping document from EC.  
  
EC approved use of short scoping document just for concept and suggested to get reviewed template by both task groups.
  - II. Kuo-Wei Lee briefed on FHWA mobile concrete laboratory trailer and pool fund study. The mobile laboratory will be used for shadow testing in District-8 under AASHTO's performance engineering mix (PEM).
  - III. Dan Speer suggested to inform PMPC group about FHWA mobile laboratory, and informed that FHWA studies involve lot of academicians and use of such research outputs may not be practical.
  - IV. Sergio Aceves informed that there are several FHWA pull fund studies and it may not be practical to bring to the PMPC.
10. Action Item
- I. Send short scoping document template to both TGs for their comments (Deepak Maskey).
  - II. If approved publish short scoping document on web (Deepak Maskey).