

**GREENBOOK COMMITTEE**  
**NEW MATERIALS AND METHODS SUBCOMMITTEE - SURFACE**  
**ASPHALT TASK FORCE**  
**MINUTES – April 6, 2022**

The meeting was called to order at 1:03 PM by Corina Wong.

1. Role call was called:
2. Corina Wong Granite Construction [Corina.Wong@gcinc.com](mailto:Corina.Wong@gcinc.com)
  - a. Sarah Chavez City of San Diego [Schavez@sandiego.gov](mailto:Schavez@sandiego.gov)
  - b. Bob Rivers Asphalt Supply Tech [brivers@asphaltsupplytech.com](mailto:brivers@asphaltsupplytech.com)
  - c. Vinh Tran County of Orange [Vinh.Tran@ocpw.ocgov.com](mailto:Vinh.Tran@ocpw.ocgov.com)
  - d. Roger Schlierkamp GMU [Rschlierkamp@gmugeo.com](mailto:Rschlierkamp@gmugeo.com)
  - e. Humberto Rios LA County [hrios@dpw.lacounty.gov](mailto:hrios@dpw.lacounty.gov)
  - f. Clarence Su LA County [csu@dpw.lacounty.gov](mailto:csu@dpw.lacounty.gov)
  - g. Blaine Thomann Orange County [blaine.thomann@ocpw.ocgov.com](mailto:blaine.thomann@ocpw.ocgov.com)
  - h. Erik Updyke Consultant [erikup59@gmail.com](mailto:erikup59@gmail.com)
  - i. Mike Concannon Pavement Recycling [mconcannon@pavementrecycling.com](mailto:mconcannon@pavementrecycling.com)
  - j. Bob Staugaard APART [bobs@apartshafter.com](mailto:bobs@apartshafter.com)
  - k. Shawn Smith Kelterite [shawn@kelterite.com](mailto:shawn@kelterite.com)
  - l. Mike Soler County of Orange [Michael.soler@ocpw.ocgov.com](mailto:Michael.soler@ocpw.ocgov.com)
  - m. John Lara Matich Corp [jlara@matichcorp.com](mailto:jlara@matichcorp.com)
  - n. Ajideh Hossien City of Carlsbad [hossein.ajideh@carlsbadca.gov](mailto:hossein.ajideh@carlsbadca.gov)
3. Minutes from the March 2, 2022 meeting were reviewed and approved.
4. Old Business
  - a. Main Committee
    - i. No updates
  - b. Editorial Standards Subcommittee
    - i. No updates
  - c. Surface Committee
    - i. Berm change no longer has a sponsor
      1. Call for sponsorship
      2. No berm mix in Greenbook, draft a change prior to sponsorship?
5. Current Business
  - a. Change No. 315SM for MAC10/15 TR (No sponsor needed)
    - i. Reviewed the test data provided by Asphalt Supply & Technology
      1. Drain down analysis
        - a. Used CTM 368 Method of Test for Optimum Bitumen Content for Open Graded Friction Course to infer the drain down of an hot mix coldfeed with different lab batched MAC10/15TR binders
          - i. CTM 368 using equivalent asphalt draindown to select the OBC of an asphalt mix
          - ii. OBC Test results were previously provided
        - b. Same aggregates used for the trials
          - i. ARHM-GG-C Gradation
        - c. Binders were lab batched by APART for trials
          - i. Lab batched MAC10 TR – Original Spec
          - ii. Lab batched MAC15 TR – Original Spec
          - iii. Lab batched MAC15 TR – Revised Spec
          - iv. Test data provided by APART
  - b. Change No. 313SM for CIR (LA County sponsor-Clarence Su)
    - i. Schedule next small group meeting on March 18<sup>th</sup> @ 12 p.m.
  - c. Change No. 301SM

- i. Reviewed revisions
- ii. Requested changes
  - 1. Remove the 1<sup>st</sup> sentence and 2<sup>nd</sup> sentence of the 2<sup>nd</sup> paragraph of section 302-5.11.2
    - a. Default will be CTM 375
  - 2. Change the 2<sup>nd</sup> sentence of 2<sup>nd</sup> paragraph of section 302-5.11.2 to “In case of dispute, a minimum of 3 cores will be taken for determination of field density for each area up to 500 tons at locations randomly selected by the engineer.”
  - 3. Add the last sentence of the 1<sup>st</sup> paragraph of section 302-5.11.2 to the last sentence in the 2<sup>nd</sup> paragraph of section 302-5.11.2 in a new
  - 4. Request was made to delete the 2<sup>nd</sup> sentence of 3<sup>rd</sup> paragraph of section 302-5.11.2 to state “The test strip shall consist of a minimum of 6 test sites.”
    - a. CTM 375 requires 10 test sites for a test strip
      - i. Test site exclusions that have a gauge correlation more than 2 standard deviations from the average
      - ii. No more than 3 test sites can be excluded
    - b. AASHTO T355 & FHWA FP-14 recommends a minimum of 5 test for a HMA test strip gauge correlation
      - i. AASHTO T355 excludes test sites if the standard deviation between test sites exceeds 2.5 lb/ft
      - ii. 6 test sites recommended to account for excluding test site.
- d. Change No. 305SM for specifying RAP as Micro-surfacing and Slurry aggregate.
  - i. No update
- e. SSPWC specification for berm mix. 1% additional binder discussion needed. (Sponsor: Orange County-Blaine Thomann)
  - i. Sponsorship withdrawn
- f. Previous change requests – No current sponsors so not under current consideration
  - i. Add Superpave gyratory process to the Greenbook HMA mix design
    - 1. Previously conducted round robin compaction study on plant mix
    - 2. Training requested of CalAPA/UCPRC
      - a. Yet to be confirmed
  - ii. Request was made to consider warm mix additives in the ARHM section
  - iii. Request was made for RA modifications/provisions for bio-based rejuvenators in Section 203

6. New Business

7. **Next meeting will be at 1:00 p.m. on WEDNESDAY, MAY 4, 2022 AS A TEAMS MEETING.**