Building Better Roads
Mix Types Subcommittee
Meeting Minutes

MEETING DATE: January 30, 2019 (2:00 PM)

ATTENDEES:
Barry Coley (Escondido Materials) Matt Pound (Escondido Material)
Bill Morgan (COSD-DPW) Pat Terrell (CAL Commercial AC)
Brandon Milar (CalAPA) Randy Encinas (City of San Diego)
Collins Solomon (COSD-DPW) Robert Pileno (Vulcan Materials)
Dave Gasaway (COSD-DPW) Sam Koohi (COSD-DPW)
Jim Ryan Jr. (Marathon Petroleum) Sam Tadros (COSD-DPW) - LEAD
Jonathan Luke (Escondido Materials) Rich Fitterer (Kleinfelder)
Mary Erchul (Ghirardelli) Amanda Olgeirsson (Kleinfelder)

PUBLIC COMMENTS IN ACCORDANCE WITH BROWN ACT:
- No Public Comments

OVERVIEW:
- Meeting began with participants’ self-introductions. It was agreed by all members of this Subcommittee to change the name from “Mix Design” to “Mix Types”. Rich Fitterer discussed meeting norms and explained his role (assisting the County of San Diego (County) with facilitating BBR meetings and organizing deliverables in the form of white papers for action items generated in subcommittee meetings). The subcommittee went through each subject/issue/challenge defined in their previous meeting and delegated individuals who would work on draft reports. Draft reports are to be shared internally on February 15, 2019, within the subcommittee for review.

DISCUSSION:
Committee Deliverables
- Reports – based on follow-up discussions with the Building Better Roads Working Group Executive Committee, it was requested that each subcommittee prepare and produce “reports” to expand on different ideas generated during meetings; each report would consist of an Abstract, Problem Statement, Solution, Conclusion, and References (two to five pages); reports would be posted on the County’s website to be shared with the public and other agencies; reports will be living documents; subcommittees’ findings will be discrete and definable, and provide a deliverable to help elevate issues and implement change; a template for subcommittee reporting was provided
- Achievement Matrix – the County will generate an achievement matrix to track subcommittee progress and accomplishments; use as a reference in the general group meeting and when presenting to others;
• Define Short-Term vs. Long-Term – Short-Term is typically less than one year; Long-Term is typically greater than a year.

ASSIGNING WHITE PAPER TOPICS:

Warm Mix Asphalt
• Warm Mix Asphalt discussed in alternative pavements meeting this morning, tabled for this committee; County has used it in the past; Vulcan can produce it in their Otay Plant
• Industry says it helps achieve climate action goals; mix can be produced at lower temperatures, resulting in reduced fuel cost, and lowered greenhouse gas emissions
• Industry stated it allows contractors to pave in lower temperatures, which normally isn’t an issue in the San Diego region; has been used in District 12 and 7; agencies in California are not requiring a reduction in production temperatures, contractor can choose
• Agency asked, what is the contractor or plant incentive is? Industry responded, that warm mix is a risk management tool, stretches paving season in colder climates and has improved workability; costs vary and are condition dependent; can cost more when it’s forced by an agency; best practice is to have specifications allow its use and let the market drive its use
• Industry representative will lead the report; will include specification and industry practice references

Consistent Specifications throughout the Region
• County uses Caltrans 2006 while other agencies use Greenbook, or hybrid specifications; issues with specifications regarding HVEEM vs. Gyratory mix designs
• Industry representative to lead report regarding evaluating the ability of various agencies in San Diego County to conform to the same mix types and special provisions
• County will take the lead in generating a survey to gather information about which agencies use which specifications throughout the San Diego region; to include smaller city agencies; will ask what logic is driving certain spec usage for different mix types and their various applications (i.e. lift thicknesses, caps, levelling courses, RAP in a wearing course, etc.)

Fractionation for RAP Mixes
• Agency asked how requiring fractionation for RAP mixes would affect the industry; industry indicated that it is limited by the amount of RAP they are able to stockpile and sieve size requirements
• Industry stated that specifications should allow for contractor to choose proportioning; contractors will most likely need to fractionate for mixes with higher percentages of RAP (>25%) to maintain consistency and quality of material and to adhere to volumetric testing; fractionation helps control binder content consistency
• Industry stated that because San Diego only has four suppliers, most likely all would be on board with fractionation if it were required by agencies
• CCA fractionates because there is a cost savings of oil in fine fractions and of aggregates in course fractions
• Industry to lead the report

Balance Testing
• Industry states that the FHWA is leading efforts for balance testing; Greenbook and Caltrans are not yet implementing
• Innovative techniques involving designing for performance testing; resists rutting while maintaining elastic properties to improve crack resistance; it is the future of asphalt pavement design; moving to this type of design methodology will help facilitate the use of recycle content
• Industry to lead white paper with support from County and City of San Diego

**CLOSING COMMENTS:**
• First draft of reports to be shared internally on February 15, 2019, within the subcommittee for review.
• The next Building Better Roads Working Group meeting is scheduled for February 26, 2019.
• Schedule next Mix Types Subcommittee meeting for Monday, March 18, 2019, from 2 pm to 4 pm.
  o Industry wants to discuss utilizing RAP in rubberized asphalt mixes – realizes it is not a priority but would like to add it to the agenda to the next meeting

**ACTION ITEMS**
• County to distribute meeting sign-in sheet and minutes
• County to distribute report topic assignments
• Report leads to submit first drafts by February 15, 2019