

## **SUBCOMMITTEE ON MATERIALS**

2016 Annual Meeting – Greenville, SC

Monday August 1, 2016

1:00 – 3:00 PM EST

### **TECHNICAL SECTION 4a**

#### **Rigid Pipe**

#### **I. Call to Order and Opening Remarks**

#### **II. Roll Call**

- Migration away from the alpha numeric name for this TS and all TSs in SOM.
- AL, CA, FHWA, GA, MO, NC, NE, NV, SC, VA, WI, WV, PA (13 present)

#### **III. Approval of Technical Section Minutes**

- A. Motion to approve minutes as distributed
  - i. Discussion
- B. Vote

- Motion to approve the minutes made by AL, seconded by NC. All were in favor of approving the minutes.

#### **IV. Old Business**

##### **A. SOM Ballot Items**

- 1. Outstanding items from Mid-Year Meeting?
  - i. Pull Test – lapped circumferential
    - 2. To be covered under Work Group (below)
  - ii. Water Quality:
- B. TS Ballots
  - i. Rolling ballot (following August meeting)
    - 1. R73 “Standard Practice for Evaluation of Precast Concrete Drainage Products”
      - a. Discussion regarding use or future use by States
  - R73 passed the SOM ballot with minor editorial comments and no negatives and will be available online soon.
  - ii. Post Mid-year ballot
    - 1. Water Quality: 13 Specifications (M 086M-M086M, M170, M170M, M176M-M176, M178M-M178, M199M-M199M, M206M-M206, M207M-M207, M242M-M242, M259, M259M, M273, M273M)
    - These were sent out for TS ballot. One negative from PA, which was then retracted. This will be moved to full SOM ballot. Motion made by FL, seconded by NC. All were in favor.
      - a. M 157, Ready-Mixed Concrete
      - b. *Water*—Mix water shall conform to M 157, Tables 1 and 2, with a maximum limit of 0.15 percent chloride.
        - i. TS 4a 16-01: (March 17 to April 7, 2016) - Affirmative 16, No Vote 4

- C. Task Force / Work Group Reports
  - i. No Task Forces
  - ii. Work Group 15-01 – Weld Pull Test
    - 1. Developed pull test criteria for welded lapped circumferentials
      - a. Primary authors: R. Horwhat/K. Spahn
        - i. Brief review of workgroup document
    - 2. Transferred to TS 4f/g for inclusion in AASHTO T244 as an appendix
      - a. Industry intentions for use in ASTM A370? Industry (ACPA) indicated this would be incorporated into C497.
      - b. State use/requirement?
      - c. ACPA/NPCA audit criteria?
  - This will be sent to TS 4f who handles this specification. A question was raised as to whether it would be an appendix or annex. The chair responded that testing is mandatory in the specifications the pull test is referenced. It was decided that this would need to be an annex document.
- iii. Work Group 15-02
  - 1. Finalized criteria for Water Quality Standards

## V. New Business

- A. Research Proposals
  - i. 20-7 RPS
    - None
  - ii. Full NCHRP RPS
    - None
- B. AMRL/CCRL - Observations from Assessments?
  - None
- C. NCHRP Issues
  - None
- D. Correspondence, calls, meetings
  - The work groups had conference calls throughout the year.
- E. Presentation by Industry/Academia
  - i. ACPA (J. Beakley): Overview of ASTM C1818 Specification for Synthetic Fiber Reinforced Concrete Culvert Storm Drain and Sewer Pipe
    - NC suggested research be done to better educate the states.
    - This will be brought up again during the next mid-year meeting.
- F. Research Liaison (Vacant – Rick Kreider formerly)
  - i. Need volunteer
    - 1. Brian Egan – Tennessee (potential from May e-mail)
      - a. Appointment (if necessary)
  - Brian has volunteered to be the Research Liaison.
- G. Proposed New Standards
  - i. Results of State survey on AASHTO M259 and M 273
    - 1. M259-2011 Standard Specifications for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers
    - 2. M273-2011 Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers with Less Than 2 ft of Cover Subjected to Highway Loadings
      - a. SOM 2010: Added Note 3 to both standards (abbrev.): If LRFD is required, then use ASTM C1577
  - Penn DOT's Bridge Engineer has volunteered to work on this.
    - i. Based on TS Chair survey from 2010 to allow time to move over to ASTM's and then consider eliminating
    - ii. Summary from March 9<sup>th</sup> TS Chair e-mail:
      - 1. New Survey, ie eliminate?
        - a. OK to eliminate: (14) AR, MT, NC, SC, CT, UT, SD, KY, DC, NY, MN, FL, CO, DE

- b. No (5) AK: No – ASTM C1566 contains info from AASHTO -Update standards, AL – No, update standards, MD – No – update standards, PA: No (based on comments)
  - SOM\_TS4a-1-2016: Task Force was formed to take a look at these standards and decide what revisions need to be made. Their recommendation will be made to the TS at the mid-year meeting for further action.
    - o Participants: (AK, AL, MD and PA)
      - c. ACPA – Feds – after 2010, projects with federal funds must be LRFD compliant (design)
        - i. Discussion
- H. Proposed New Task Forces
  - SOM\_TS4a-1-2016: Task Force was formed to take a look at these standards and decide whether to propose revising the standards or eliminating them. Industry (ACPA) commented that they thought that AASHTO could not simply adopt the ASTM box culvert standards as this would be a copyright infringement. AASHTO technical support indicated they would investigate this and report back to the Chair.
- I. Standards Requiring Reconfirmation
  - i. None
- J. SOM Ballot Items (including any ASTM changes/equivalencies)
- K. TS Ballot items
  - i. Wire/Welded wire fabric
    - 1. M33 (wire) and M55 (WWF) have been withdrawn
      - a. ASTM standards combined into ASTM A 1065
        - i. Discussion
- TS 4f is working on making revisions to ASTM A1064. M33 and M55 were withdrawn and need to be replaced with appropriate specifications. It was decided that TS4a will wait until TS 4F has completed their specification (estimated to be completed within one year) at which point the current wire and WWR referenced standards would be replaced.

**VI. Open Discussion**

- The alpha numeric name will be changed and this tech section will have a new name. Email any suggestions you have to the tech section Chairman.

**VII. Adjourn**