

**SUBCOMMITTEE ON MATERIALS**

2016 Annual Meeting – Greenville, SC

Tuesday August 2, 2016

1:00 – 3:00 PM EST

**TECHNICAL SECTION 4b**  
**Flexible and Metallic Pipe**

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

**II. Roll Call**

Voting Members

Name	State	Present
Bailey, William R.	Virginia	
Peoples, Christopher A.	North Carolina	
San Angelo, Michael	Alaska	
Stolarski, Phil J	California	
Pinkerton, Jennifer M.	Delaware	
Knight, Chase	Florida	
Douds, Richard	Georgia	
Abadie, Christopher David	Louisiana	
Bradbury, Richard L	Maine	
Fung, Clement W.	Massachusetts	
Kline, Therese R.	Michigan	
Trautman, Brett	Missouri	
Streeter, Donald A.	New York	
Ramirez, Timothy	Pennsylvania	
Williams, Kurt	Washington	
Kemp, Peter	Wisconsin	

Friends and Non-Voting Members

Name	Affiliation	Present
Rothblatt, Evan	AASHTO - Liaison	
Malusky, Katheryn	AASHTO - Liaison	
Lenker, Steven E.	AMRL	
Uherek, Greg	AMRL	
Knake, Maria	AMRL	
McGough, Michael	NCSPA	
Chestnut, Brian W	Lane	
Currence, Daniel	PPI	
Christensen, Heather	Prinsco, Inc.	
Beakley, Josiah W	ACPA	
Pluimer, Michael	Crossroads Eng.	

### III. Approval of Technical Section Minutes

Minutes of the August 2, 2015 TS 4b meeting in Pittsburgh, Pennsylvania were approved at the Mid-Year Webinar.

Approval of January 27, 2016 Mid-Year Webinar minutes

### IV. Old Business

A. **SOM Ballot Items** – Items were addressed at Mid-Year Webinar

#### B. TS Ballots

##### **SOM TS4B 16-01 Late Spring Ballot results are due July 11, 2016**

**Item 1** Move PP 63-09 Provisional Standard Practice for Pipe Joint Selection for Highway Culvert and Storm Drains to a full standard practice. This provisional standard was first published in 2009. There have been no substantial changes to provisional practice since its adoption. At least one DOT is using the standard for pipe joint selections.

The new standard test method passed/failed technical section ballot with XX affirmative votes, X negatives and X no votes.

**Item 2** Revise M167M/M167-14 Standard Specification for Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches. This proposed revision incorporates a flanged joint connection for deep corrugated metal structures into the standard. Flanged joint connections are longitudinal and circumferential seam flanges instead of the conventional lapped seams. These proposed changes have been accepted in ASTM A761.

The revised standard specification passed/failed technical section ballot with XX affirmative votes, X negatives and X no votes.

**Item 3** Revise M 294-16 Standard Specification for Corrugated Polyethylene Pipe 300- to 1500-mm (12in- to 60-in.) Diameter. These revisions to the buckling definition in Section 3.2 and 3.4 of Terminology and pipe flattening testing protocol in Section 7 and 9 are based on the April 28th webinar sponsored by TS 4b. The seminar was designed to help DOT members better understand the reasoning behind using a decrease in the load deflection curve as the buckling limit, how to calculate corrugation height for the buckling deflection limit equation and improving the testing protocol to gain the most useful information related to performing the pipe flattening test. There is also a clarification on the requirement for a NCLS testing program for non-certified resins in the ANNEX.

The revised standard specification passed/failed technical section ballot with XX affirmative votes, X negatives and X no votes.

**Item 4** Revise M326-08 Polyethylene (PE) Liner Pipe, 300- to 1600-mm Diameter, Based on Controlled Outside Diameter. The specific modification is a request to replace the current

default watertight joint performance requirement with a silt tight joint requirement in Section 7.7. The Silt tight joint performance requirement will be inserted into Section 7.8 while the Watertight joints performance requirement will be moved from Section 7.8 to Section 7.9 and will need to be specified by the owner/designer.

The revised standard specification passed/failed technical section ballot with XX affirmative votes, X negatives and X no votes.

**SOM TS4B 16-02 Early Summer Ballot results are due July 13, 2016**

**Item 1** Revise Section 7.8 and 7.9 of M 294-16 Standard Specification for Corrugated Polyethylene Pipe 300- to 1500-mm (12in- to 60-in) Diameter. A majority of the fittings (for diameters larger than 12”) for M 294 Corrugated (HDPE) pipe are mainly fabricated from previously produced pipe. Elbows, tees, “Y”, etc. sections of the finished fitting are joined through the use of welding with a polyethylene welding wire or by heating the connecting points through the use of a hot plate. The suggested revisions to Section 7 of M 294 attempt to clarify the material and fabrication requirements.

The revised standard specification passed/failed technical section ballot with XX affirmative votes, X negatives and X no votes.

**C. Task Force Reports**

**Task Force 2015-02** – the task force will look at PP 63. The objective will be to move this standard to a full standard. The members of this task Force are VA, NC, Theresa Kline (MI), NCSPA, ACPA and PPI. The chair asked the task force members if there were any additions to PP 63. There was no response so the chair moved the provisional practice to TS ballot for promotion to full standard practice on the TS 4B late spring ballot as Item 1.

**V. New Business**

**A. Research Proposals**

1. 20-7 RPS
2. Full NCHRP RPS

No Proposals to date

**B. AMRL/CCRL - Observations from Assessments**

**C. NCHRP Issues**

Michael Pluimer “NCHRP 4-39 Update: Field Performance of Corrugated HDPE Pipe Manufactured with Recycled Content”

**D. Correspondence, calls, meetings, webinar,**

On April 28<sup>th</sup> a technical presentation on the Pipe Flattening test in AASHTO M294 was given by Michael Pluimer with Crossroads Engineering. Michael presented information to help the DOT members better understand the reasoning behind using a decrease in the load deflection curve as the buckling limit, how to calculate corrugation height for the buckling deflection limit equation and factors of safety included in the deflection limit equation.

**E. Presentation by Industry/Academia**

Katheryn Malusky – NTPEP Pipe Flattening testing

**F. Proposed New Standards**

**G. Proposed New Task Forces**

**H. Standards Requiring Reconfirmation**

M190	M274	R063
M219	M289	T241
M243	M326	MP020 – 1 year extension
M252	M330	

**I. SOM Ballot Items (including any ASTM changes/equivalencies)**

**VI. Open Discussion**

**VII. Adjourn**

Draft