COMMITTEE ON MATERIALS & PAVEMENTS
2018 Annual Meeting – Cincinnati, OH
Monday August 06, 2018
3:45 PM

TECHNICAL SUBCOMMITTEE 4d
Safety Devices

I. Call to Order and Opening Remarks –
   A. Chair Intro and thanks and awards
      i. Brief Intro from New Chair

II. Roll Call (Voting Members) – Sign in Sheet & Introductions
Ron Stanevich WV Chair
Tim Ruelke FL Vice Chair
Jason Davis LA Member
Jim Trepanier IL Member
Leo Fontaine CT Member
Lisa Zigmund OH Member
Brandi Mitchell KY Member
Jose Lima RI Member
Richard Douds GA Member
Kurt Williams WA Member
Tim Ruelke FL Member
William Bailey VA Member
Curt Turgeon MN Member
John Grieco MA Member
Darren Hazlett TX Member
Becca Lane ON Associate

Friends of TS-4d & Introductions – (non Voting)
Dennis Dvorak FHWA Ex Officio
Chris Gaudette Orafol Am. Friend
Todd Ballen 3M Friend
Robert Lutz AASHTO Liaison
Tracy Barnhart AASHTO Liaison
Kelly Morse IL Member
Steven Lenker AASHTO Member
Maria Knake AASHTO Member
Henry Lacinak AASHTO Member
David Ahlvers MO Member
Danny Lane TN Member
Art Bertol Wheeling-Nisshin Friend
III. Mid Year Meeting Minutes –
   A. Meeting Minutes, 1.16.18. (attachment A)

IV. Technical Section Minutes from 2017
   A. Approval of 2017 minutes was completed at Mid Year Meeting 1.16.18 and should be posted online

V. Old Business
   A. Any Outstanding Items from the Mid-Year Meeting
      M180 – Zinc, Aluminum, Magnesium changes – Changes included in M180-18
   B. TS4d Ballot Items
      i. TP 103 – A Tech Section ballot outlining the changes was prepared
         TS Ballot Completed – 13 affirmative, 0 Negative, 3 No Vote. Propose to send to full COMP ballot.
      ii. Everything else was wrapped up at Mid-Year Meeting
   C. Reconfirmation Report for standards (Attachment B):
      i. Item #5 M290 – Comment by Illinois - No one on the Mid Year call could answer this question. Can Illinois clarify their comment?
         “Are these still used for signs? If not, title should be revised to exclude the sign reference”
      ii. Item #6 T257 – comment by Illinois - ASTM has revised their standard since 2013 and the AASHTO standard should be compared to the current ASTM version to ensure that the language matches.
         “Need to make sure to keep up with ASTM method changes. Current with the 2013 versions.”
   D. Tech Section Actions Required (Attachment C)
      i. M 030-15 Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail
         - Revise or Reconfirm Does this include cable barrier? Referenced Documents section does not mention M180.
      ii. M181-10 Chain Link Fence - Revise or Reconfirm
      iii. M268-15 Retroreflective Sheeting for Flat and Vertical Traffic Control Applications - Revise or Reconfirm
   E. Task Force Reports – no task forces
   F. Research Proposals:
      i. NCHRP 22-40 – update
         Link to project: http://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=4586
         Sponsored by Committee on Roadside Safety
         Eric Emerson – Wisconsin DOT
         Tim Ruelke has been accepted on the panel
         Should we tie in M 030 into this effort?
         Should we include cable barrier hardware in this project?
VI. New Business
   A. Research Proposals Do we want to put the “Material Requirements for High Tension Cable Barriers” project Back in?
   B. AMRL/CCRL –
   C. NCHRP Issues -
   D. Correspondence, calls, meetings -
   E. Presentation by Industry/Academia
   F. Proposed New Standards
   G. Proposed New Task Forces
   H. Standards Requiring Reconfirmation
   I. COMP Ballot Items (including any ASTM changes/equivalencies).

VII. Open Discussion

VIII. Adjourn
I. Call to Order and Opening Remarks
   A. Brief summary of activities
      1. 2017 Meeting Summary

II. Roll Call

III. Approval of Technical Section Minutes
   A. 2017 Tech Section Minutes (attached) Motion: VA, Second: FL

IV. Old Business
   A. COMP Ballot Items (Including any ASTM Changes/equivalencies)
      1. Outstanding items from Annual Meeting? None.
   B. TS Ballots –
      1. M180 – Editorial Comments, Art Bertol is present and has made some changes and can discuss if necessary. Art indicated that most comments were typographical in nature. Trying to introduce new coating into the standard. Art addressed each of the comments during the call. The Tech Section has accepted the editorial comments based on Art’s explanations and will work with PA and AASHTO Publications to get the comments published.
   C. Reconfirmation Ballots
      1. Item #2 M279 – Editorial Comment by Illinois Reviewed comments – agreed.
      2. Item #3 M280 – Editorial Comment by Illinois The statement is accurate. Suggest removing the reference.
      4. Item #5 M290 – Comment by Illinois No one on the call could answer this question. Ron will contact Illinois.
      5. Item #6 T257 – comment by Illinois ASTM has revised their standard since 2013 and the AASHTO standard should be compared to the current ASTM version to ensure that the language matches. Suggestion made to contact Kelly Morris. Ron will contact Illinois.
      6. TP 103 – working with NTPEP update by T. Ruelke Tim gave an update during the call. A Tech Section ballot outlining the changes will be prepared.
   D. Task Force Reports
      1. August Meeting we closed Task Force for M333/TP103

V. New Business
   A. Research Proposals Proposal regarding hardware for cable tension barriers did not get approved. Kurt is in the process of following up to determine why it wasn’t approved. Feedback would be helpful going forward. Will try to get it approved again next year. Suggestion made to contact Amir.
   B. AASHTO Re:source/CCRL - Observations from Assessments?
   C. NCHRP Issues
D. Correspondence, calls, meetings
E. Presentation by Industry/Academia
F. Revisions/Work on Standards for Coming Year
G. Proposed New Standards
H. Proposed New Task Forces
I. New TS Ballots? Will prepare a TS ballot for TP 103 to reconcile it with NTPEP protocol.

VI. Open Discussion
Ron asked about the agenda for this summer’s meeting. He would like more input from the members. Please contact Ron or Tim with your ideas. If we get the TS ballot out in the next couple of months, we could review the comments and formally cover applicable information at the meeting. We could then propose it for the full SOM (COMP) ballot.

VII. Adjourn
3:01 p.m.
<table>
<thead>
<tr>
<th>Item Number:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Reconfirm M269</td>
</tr>
</tbody>
</table>
| Decisions: | Affirmative: 14 of 16  
Negative: 0 of 16  
No Vote: 2 of 16 |

<table>
<thead>
<tr>
<th>Agency (Individual Name)</th>
<th>Comments</th>
<th>Decision</th>
<th>Responce Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AASHTO re:source (Robert Lutz) (<a href="mailto:rlutz@aashtoresource.org">rlutz@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Maria Knake) (<a href="mailto:mknake@aashtoresource.org">mknake@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tennessee Department of Transportation (Danny L. Lane) (<a href="mailto:danny.lane@tn.gov">danny.lane@tn.gov</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Steven Lenker) (<a href="mailto:slenker@aashtoresource.org">slenker@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Association of State Highway and Transportation Officials (Evan Rothblatt) (<a href="mailto:erothblatt@aashto.org">erothblatt@aashto.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri Department of Transportation (Dave D Ahlvers) (<a href="mailto:david.ahlvers@modot.mo.gov">david.ahlvers@modot.mo.gov</a>)</td>
<td></td>
<td>Affirmative Vote</td>
<td></td>
</tr>
<tr>
<td>American Association of State Highway and Transportation Officials (Henry Lacinak) (<a href="mailto:hlacinak@aashto.org">hlacinak@aashto.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Federal Highway Administration
(Dennis V Dvorak)
dennis.dvorak@dot.gov
AASHTO re:source (Tracy Barnhart)
tbarnhart@aashtoresource.org
Illinois Department of Transportation (Kelly L Morse)
Kelly.Morse@illinois.gov
3M (Todd A. Ballen)
taballen@mmm.com
Wheeling-Nisshin (Art Bertol)
arb@wheeling-nisshin.com
Orafol Americas Inc. (Chris Gaudette)
chris.gaudette@orafol.com
Kansas Department of Transportation (Richard A Barezinsky)
rick.barezinsky@ks.gov
West Virginia Department of Transportation (Ron L Stanevich)
ron.l.stanевич@wv.gov
Tennessee Department of Transportation (Brian K. Egan)
brian.egan@tn.gov
Ontario Ministry Of Transportation (Becca Lane)
becca.lane@ontario.ca
Ohio Department of Transportation (Lisa Zigmund)
Lisa.zigmund@dot.ohio.gov
Connecticut Department of Transportation (Leo Louis Fontaine)
leo.fontaine@ct.gov
Florida Department of Transportation (Timothy J. Ruelke)
timothy.ruelke@dot.stat.e.fl.us
Louisiana Department of Transportation and Development
(jason.davis@la.gov)
Illinois Department of Transportation (Jim Trepanier) (james.trepanier@illinois.gov) Affirmative
Rhode Island Department of Transportation (Jose S Lima) (jose.lima@dot.ri.gov) Affirmative
Washington State Department of Transportation (Kurt R Williams) (willikr@wsdot.wa.gov) Affirmative
Minnesota Department of Transportation (Curt Turgeon) (curt.turgeon@state.mn.us) Affirmative
Georgia Department of Transportation (Richard Douds) (rdouds@dot.ga.gov) Affirmative
Virginia Department of Transportation (William R Bailey) (bill.bailey@vdot.virginia.gov) Affirmative
Massachusetts Department of Transportation (John E Grieco) (john.grieco@state.ma.us) No Vote
Kentucky Transportation Cabinet (Brandi Ramona Mitchell) (brandi.mitchell@ky.gov) No Vote

<table>
<thead>
<tr>
<th>Item Number:</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Reconfirm M279</td>
</tr>
<tr>
<td>Decisions:</td>
<td>Affirmative: 14 of 16</td>
</tr>
<tr>
<td></td>
<td>Negative: 0 of 16</td>
</tr>
<tr>
<td></td>
<td>No Vote: 2 of 16</td>
</tr>
</tbody>
</table>

AASHTO re:source (Robert Lutz) (rlutz@aashtoresource.org)
AASHTO re:source (Maria Knake) (mknake@aashtoresource.org)
Tennessee Department of Transportation (Danny L. Lane) (danny.lane@tn.gov)
Affirmative Vote

AASHTO re:source (Steven Lenker)
(slenker@aashtoresource.org)
American Association of State Highway and Transportation Officials (Evan Rothblatt)
(erothblatt@aashto.org)
Missouri Department of Transportation (Dave D Ahlvers)
david.ahlvers@modot.mo.gov
American Association of State Highway and Transportation Officials (Henry Lacinak)
(hlacinak@aashto.org)
Federal Highway Administration (Dennis V Dvorak)
dennis.dvorak@dot.gov
AASHTO re:source (Tracy Barnhart)
tbarnhart@aashtoresource.org
Illinois Department of Transportation (Kelly L Morse)
(Kelly.Morse@illinois.gov)
3M (Todd A. Ballen)
taballen@mmm.com
Wheeling-Nisshin (Art Bertol)
artb@wheeling-nisshin.com
Orafol Americas Inc. (Chris Gaudette)
(chris.gaudette@orafol.com)
Kansas Department of Transportation (Richard A Barezinsky)
(rick.barezinsky@ks.gov)
West Virginia Department of Transportation (Ron L Stanevich)
ron.l.stanevich@wv.gov
Tennessee Department of Transportation (Brian K. Egan)
brian.egan@tn.gov
Ontario Ministry Of Transportation (Becca Lane)
becca.lane@ontario.ca
1. Section 1.3 states: "The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only." Throughout the M 279 specification the values in parentheses are in SI units. Consider revising Section 1.3 as follows: "The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only."

2. Section 2.2: ASTM Standard B6 is not referenced in M 279.

3. Table 3: Revise "Tensile Strength Grade, (ksi)" to "Tensile Strength
Also, provide MPa values in parentheses for Tensile Strength.

<table>
<thead>
<tr>
<th>Agency (Individual Name)</th>
<th>Comments</th>
<th>Decision</th>
<th>Response Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhode Island Department of Transportation (Jose S Lima)</td>
<td></td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Washington State Department of Transportation (Kurt R Williams)</td>
<td></td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Minnesota Department of Transportation (Curt Turgeon)</td>
<td></td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Georgia Department of Transportation (Richard Douds)</td>
<td></td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Virginia Department of Transportation (William R Bailey)</td>
<td></td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Massachcutts Department of Transportation (John E Greco)</td>
<td></td>
<td>No Vote</td>
<td></td>
</tr>
<tr>
<td>Kentucky Transportation Cabinet (Brandi Ramona Mitchell)</td>
<td></td>
<td>No Vote</td>
<td></td>
</tr>
</tbody>
</table>

| Item Number: 3 | Description: Reconfirm M280 | Decisions: Affirmative: 14 of 16  Negative: 0 of 16  No Vote: 2 of 16 |
Tennessee Department of Transportation (Danny L. Lane)  
(danny.lane@tn.gov)  
AASHTO re:source (Steven Lenker)  
(slenker@aashtoresource.org)  
American Association of State Highway and Transportation Officials (Evan Rothblatt)  
(erothblatt@aashto.org)  
Missouri Department of Transportation (Dave D Ahlvers)  
(david.ahlvers@modot.mo.gov)  
American Association of State Highway and Transportation Officials (Henry Lacinak)  
(hlacinak@aashto.org)  
Federal Highway Administration (Dennis V Dvorak)  
(dennis.dvorak@dot.gov)  
AASHTO re:source (Tracy Barnhart)  
(tbarnhart@aashtoresource.org)  
Illinois Department of Transportation (Kelly L Morse)  
(Kelly.Morse@illinois.gov)  
3M (Todd A. Ballen)  
(taballen@mmm.com)  
Wheeling-Nisshin (Art Bertol)  
(arb@wheeling-nisshin.com)  
Orafol Americas Inc. (Chris Gaudette)  
(chris.gaudette@orafol.com)  
Kansas Department of Transportation (Richard A Barezinsky)  
(rick.barezinsky@ks.gov)  
West Virginia Department of Transportation (Ron L Stanevich)  
(ron.l.stanevich@wv.gov)  
Tennessee Department of Transportation (Brian K. Egan)  
(brian.egan@tn.gov)

Affirmative Vote

Abstain

Affirmative

Affirmative

Affirmative
Ontario Ministry Of Transportation (Becca Lane) (becca.lane@ontario.ca) Affirmative
Ohio Department of Transportation (Lisa Zigmund) (Lisa.zigmund@dot.ohio.gov) Affirmative
Connecticut Department of Transportation (Leo Louis Fontaine) (leo.fontaine@ct.gov) Affirmative
Florida Department of Transportation (Timothy J. Ruelke) (timothy.ruelke@dot.state.fl.us) Affirmative
Louisiana Department of Transportation and Development (Jason Davis) (jason.davis@la.gov) Affirmative
Illinois Department of Transportation (Jim Trepanier) (james.trepanier@illinois.gov) Affirmative

1. Section 2.1: AASHTO Standard T 65M/T 65 is not referenced in M 180.

Rhode Island Department of Transportation (Jose S Lima) (jose.lima@dot.ri.gov) Affirmative
Washington State Department of Transportation (Kurt R Williams) (willikr@wsdot.wa.gov) Affirmative
Minnesota Department of Transportation (Curt Turgeon) (curt.turgeon@state.mn.us) Affirmative
Georgia Department of Transportation (Richard Douds) (rdouds@dot.ga.gov) Affirmative
Virginia Department of Transportation (William R Bailey) (bill.bailey@vdot.virginia.gov) Affirmative
Massachusetts Department of Transportation (John E Grieco) (john.grieco@state.ma.us) No Vote
Kentucky Transportation Cabinet  
(Brandi Ramona Mitchell)  
(brandi.mitchell@ky.gov)  

<table>
<thead>
<tr>
<th>Item Number:</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Reconfirm M281</td>
</tr>
<tr>
<td>Decisions:</td>
<td></td>
</tr>
<tr>
<td>Affirmative:</td>
<td>14 of 16</td>
</tr>
<tr>
<td>Negative:</td>
<td>0 of 16</td>
</tr>
<tr>
<td>No Vote:</td>
<td>2 of 16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agency (Individual Name)</th>
<th>Comments</th>
<th>Decision</th>
<th>Response Attachment</th>
</tr>
</thead>
</table>
| AASHTO re:source (Robert Lutz)  
(rlutz@aashtoresource.org) | | | |
| AASHTO re:source (Maria Knake)  
(mknake@aashtoresource.org) | | | |
| Tennessee Department of Transportation (Danny L. Lane)  
(danny.lane@tn.gov) | | | |
| AASHTO re:source (Steven Lenker)  
(slenker@aashtoresource.org) | | | |
| American Association of State Highway and Transportation Officials (Evan Rothblatt)  
(erothblatt@aashto.org) | | | |
| Missouri Department of Transportation (Dave D Ahlvers)  
(david.ahlvers@modot.mo.gov) | | Affirmative Vote | |
| American Association of State Highway and Transportation Officials (Henry Lacinak)  
(hlacinak@aashto.org) | | | |
| Federal Highway Administration (Dennis V Dvorak)  
(dennis.dvorak@dot.gov) | | | |
| AASHTO re:source (Tracy Barnhart)  
(tbarnhart@aashtoresource.org) | | | |
| Illinois Department of Transportation (Kelly L Morse)  
(Kelly.Morse@illinois.gov) | | | |
Section 5.1: Revise "Material furnished under this ASTM specification" to "Material furnished under this AASHTO specification" at the
Rhode Island Department of Transportation (Jose S Lima)  
(jose.lima@dot.ri.gov)  
Affirmative

Washington State Department of Transportation (Kurt R Williams)  
(willikr@wsdot.wa.gov)  
Affirmative

Minnesota Department of Transportation (Curt Turgeon)  
(curt.turgeon@state.mn.us)  
Affirmative

Georgia Department of Transportation (Richard Douds)  
(rdouds@dot.ga.gov)  
Affirmative

Virginia Department of Transportation (William R Bailey)  
(bill.bailey@vdot.virginia.gov)  
Affirmative

Massachusetts Department of Transportation (John E Grieco)  
(john.grieco@state.ma.us)  
No Vote

Kentucky Transportation Cabinet (Brandi Ramona Mitchell)  
(brandi.mitchell@ky.gov)  
No Vote

<table>
<thead>
<tr>
<th>Item Number:</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>Reconfirm M290</td>
</tr>
</tbody>
</table>
| Decisions: | Affirmative: 14 of 16  
Negative: 0 of 16  
No Vote: 2 of 16 |

Agency (Individual Name) | Comments | Decision |
-------------------------|----------|----------|
AASHTO re:source (Robert Lutz)  
 rlutz@aashtoresource.org)  
 AASHTO re:source (Maria Knake)  
 mknake@aashtoresource.org)  
 Tennessee Department of Transportation (Danny L. Lane)  
 danny.lane@tn.gov)
Affirmative Vote

Affirmative with comment. Are these still used for signs? If not, title should be revised to exclude the sign reference.

Abstain

Affirmative

Affirmative

Affirmative
<table>
<thead>
<tr>
<th>Ministry</th>
<th>Affirmative</th>
<th>No Vote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ontario Ministry Of Transportation (Becca Lane) (<a href="mailto:becca.lane@ontario.ca">becca.lane@ontario.ca</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Ohio Department of Transportation (Lisa Zigmund) (<a href="mailto:Lisa.zigmund@dot.ohio.gov">Lisa.zigmund@dot.ohio.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Connecticut Department of Transportation (Leo Louis Fontaine) (<a href="mailto:leo.fontaine@ct.gov">leo.fontaine@ct.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Florida Department of Transportation (Timothy J. Ruelke) (<a href="mailto:timothy.ruelke@dot.state.fl.us">timothy.ruelke@dot.state.fl.us</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Louisiana Department of Transportation and Development (Jason Davis) (<a href="mailto:jason.davis@la.gov">jason.davis@la.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Illinois Department of Transportation (Jim Trepanier) (<a href="mailto:james.trepanier@illinois.gov">james.trepanier@illinois.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Rhode Island Department of Transportation (Jose S Lima) (<a href="mailto:jose.lima@dot.ri.gov">jose.lima@dot.ri.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Washington State Department of Transportation (Kurt R Williams) (<a href="mailto:willikr@wsdot.wa.gov">willikr@wsdot.wa.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Minnesota Department of Transportation (Curt Turgeon) (<a href="mailto:curt.turgeon@state.mn.us">curt.turgeon@state.mn.us</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Georgia Department of Transportation (Richard Douds) (<a href="mailto:rdouds@dot.ga.gov">rdouds@dot.ga.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Virginia Department of Transportation (William R Bailey) (<a href="mailto:bill.bailey@vdot.virginia.gov">bill.bailey@vdot.virginia.gov</a>)</td>
<td>Affirmative</td>
<td></td>
</tr>
<tr>
<td>Massachusetts Department of Transportation (John E Grieco) (<a href="mailto:john.grieco@state.ma.us">john.grieco@state.ma.us</a>)</td>
<td>No Vote</td>
<td></td>
</tr>
<tr>
<td>Kentucky Transportation Cabinet (Brandi Ramona Mitchell) (<a href="mailto:brandi.mitchell@ky.gov">brandi.mitchell@ky.gov</a>)</td>
<td>No Vote</td>
<td></td>
</tr>
</tbody>
</table>

**Item Number:** 6
<table>
<thead>
<tr>
<th>Description:</th>
<th>Reconfirm T257</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decisions:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Affirmative: 14 of 16</td>
</tr>
<tr>
<td></td>
<td>Negative: 0 of 16</td>
</tr>
<tr>
<td></td>
<td>No Vote: 2 of 16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Agency (Individual Name)</th>
<th>Comments</th>
<th>Decision</th>
<th>Responce Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AASHTO re:source (Robert Lutz) (<a href="mailto:rlutz@aashtoresource.org">rlutz@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Maria Knake) (<a href="mailto:mknake@aashtoresource.org">mknake@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tennessee Department of Transportation (Danny L. Lane) (<a href="mailto:danny.lane@tn.gov">danny.lane@tn.gov</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Steven Lenker) (<a href="mailto:slenker@aashtoresource.org">slenker@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Association of State Highway and Transportation Officials (Evan Rothblatt) (<a href="mailto:erothblatt@aashto.org">erothblatt@aashto.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri Department of Transportation (Dave D Ahlvers) (<a href="mailto:david.ahlvers@modot.mo.gov">david.ahlvers@modot.mo.gov</a>)</td>
<td></td>
<td>Affirmative Vote</td>
<td></td>
</tr>
<tr>
<td>American Association of State Highway and Transportation Officials (Henry Lacinak) (<a href="mailto:hlacinak@aashto.org">hlacinak@aashto.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Highway Administration (Dennis V Dvorak) (<a href="mailto:dennis.dvorak@dot.gov">dennis.dvorak@dot.gov</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Tracy Barnhart) (<a href="mailto:tbarnhart@aashtoresource.org">tbarnhart@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illinois Department of Transportation (Kelly L Morse) (<a href="mailto:Kelly.Morse@illinois.gov">Kelly.Morse@illinois.gov</a>)</td>
<td></td>
<td>Affirmative. Need to make sure to keep up with ASTM method changes. Current with the 2013 versions.</td>
<td></td>
</tr>
<tr>
<td>3M (Todd A. Ballen) (<a href="mailto:taballen@mmm.com">taballen@mmm.com</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wheeling-Nisshin (Art Bertol)  
(artb@wheeling-nisshin.com)

Orafol Americas Inc. (Chris Gaudette)  
(chris.gaudette@orafol.com)

Kansas Department of Transportation (Richard A Barezinsky)  
(rick.barezinsky@ks.gov)

West Virginia Department of Transportation (Ron L Stanevich)  
(ron.l.stanevich@wv.gov)

Tennessee Department of Transportation (Brian K. Egan)  
(brian.egan@tn.gov)

Ontario Ministry Of Transportation (Becca Lane)  
(becca.lane@ontario.ca)

Ohio Department of Transportation (Lisa Zigmund)  
(lisa.zigmund@dot.ohio.gov)

Connecticut Department of Transportation (Leo Louis Fontaine)  
(leo.fontaine@ct.gov)

Florida Department of Transportation (Timothy J. Ruelke)  
(timothy.ruelke@dot.stATe.fl.us)

Louisiana Department of Transportation and Development (Jason Davis)  
(jason.davis@la.gov)

Illinois Department of Transportation (Jim Trepanier)  
(james.trepanier@illinois.gov)

Rhode Island Department of Transportation (Jose S Lima)  
(jose.lima@dot.ri.gov)

Washington State Department of Transportation (Kurt R Williams)  
(willikr@wsdot.wa.gov)
Item Number: 7

Description: Reconfirm TP103
Affirmative vote means approving a 1-year extension as-is.
Negative vote means do not extend as-is; need to provide proposed revisions.

Decisions:
Affirmative: 14 of 16
Negative: 0 of 16
No Vote: 2 of 16

<table>
<thead>
<tr>
<th>Agency (Individual Name)</th>
<th>Comments</th>
<th>Decision</th>
<th>Response Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AASHTO re:source (Robert Lutz) (<a href="mailto:rlutz@aashtoresource.org">rlutz@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Maria Knake) (<a href="mailto:mknake@aashtoresource.org">mknake@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tennessee Department of Transportation (Danny L. Lane) (<a href="mailto:danny.lane@tn.gov">danny.lane@tn.gov</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AASHTO re:source (Steven Lenker) (<a href="mailto:slenker@aashtoresource.org">slenker@aashtoresource.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Association of State Highway and Transportation Officials (Evan Rothblatt) (<a href="mailto:erothblatt@aashto.org">erothblatt@aashto.org</a>)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Missouri Department of Transportation (Dave D Ahlvers) (david.ahlvers@modot.mo.gov)  
Affirmative Vote

American Association of State Highway and Transportation Officials (Henry Lacinak) (hlacinak@aashto.org)  
Federal Highway Administration (Dennis V Dvorak) (dennis.dvorak@dot.gov)  
AASHTO re:source (Tracy Barnhart) (tbarnhart@aashtoresource.org)  
Illinois Department of Transportation (Kelly L Morse) (Kelly.Morse@illinois.gov)  
3M (Todd A. Ballen) (taballen@mmm.com)  
Wheeling-Nisshin (Art Bertol) (artb@wheeling-nisshin.com)  
Orafol Americas Inc. (Chris Gaudette) (chris.gaudette@orafol.com)  
Abstain

Kansas Department of Transportation (Richard A Barezinsky) (rick.barezinsky@ks.gov)  
Affirmative

West Virginia Department of Transportation (Ron L Stanevich) (ron.l.stanevich@wv.gov)  
Tennessee Department of Transportation (Brian K. Egan) (brian.egan@tn.gov)  
Affirmative

Ontario Ministry Of Transportation (Becca Lane) (becca.lane@ontario.ca)  
Affirmative

Ohio Department of Transportation (Lisa Zigmund) (Lisa.zigmund@dot.ohio.gov)  
Affirmative

Connecticut Department of Transportation (Leo Louis Fontaine) (leo.fontaine@ct.gov)  
Affirmative
Florida Department of Transportation (Timothy J. Ruelke)  
(timothy.ruelke@dot.state.fl.us)  
Affirmative

Louisiana Department of Transportation and Development (Jason Davis)  
(jason.davis@la.gov)  
Affirmative

Illinois Department of Transportation (Jim Trepanier)  
(james.trepanier@illinois.gov)  
Affirmative

Rhode Island Department of Transportation (Jose S Lima)  
(jose.lima@dot.ri.gov)  
Affirmative

Washington State Department of Transportation (Kurt R Williams)  
(willikr@wsdot.wa.gov)  
Affirmative

Minnesota Department of Transportation (Curt Turgeon)  
(cur t.turgeon@state.mn.us)  
Affirmative

Georgia Department of Transportation (Richard Douds)  
(rdouds@dot.ga.gov)  
Affirmative

Virginia Department of Transportation (William R Bailey)  
(bill.bailey@vdot.virginia.gov)  
Affirmative

Massachusetts Department of Transportation (John E Grieco)  
(john.grieco@state.ma.us)  
No Vote

Kentucky Transportation Cabinet (Brandi Ramona Mitchell)  
(brandi.mitchell@ky.gov)  
No Vote

Date: 11/13/2017
<table>
<thead>
<tr>
<th>Designation No.</th>
<th>Title</th>
<th>ASTM Equiv.</th>
<th>Action Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 030-15</td>
<td>Metallic-Coated Steel Wire Rope and Fittings for Highway Guardrail</td>
<td>A741-11e1</td>
<td>Revise or Reconfirm</td>
</tr>
<tr>
<td>M 180-12 (2017)</td>
<td>Corrugated Sheet Steel Beams for Highway Guardrail</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>M 181-10 (2015)</td>
<td>Chain-Link Fence</td>
<td></td>
<td>Revise or Reconfirm</td>
</tr>
<tr>
<td>M 268-15</td>
<td>Retroreflective Sheeting for Flat and Vertical Traffic Control Applications</td>
<td></td>
<td>Revise or Reconfirm</td>
</tr>
<tr>
<td>M 269-96 (2018)</td>
<td>Turnbuckles and Shackles</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>M 290-96 (2018)</td>
<td>Acrylic Prismatic Reflectors and Embossed Aluminum Frames for Signs</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>M 333-16</td>
<td>Detectable Warning Surfaces</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>T 257-96 (2018)</td>
<td>Instrumental Photometric Measurements of Retroreflective Materials and Retroreflective Devices</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>