I. Call to Order and Opening Remarks
   - The name of this tech section will be changed. The new name will be shorter. Any suggestions should be sent to the Chair. Meeting followed the Agenda.

II. Roll Call
Voting Members as of 7/19/2016:

<table>
<thead>
<tr>
<th>Name</th>
<th>State</th>
<th>Email</th>
<th>Present</th>
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</thead>
<tbody>
<tr>
<td>Ramirez, Timothy</td>
<td>PA</td>
<td><a href="mailto:tramirez@pa.gov">tramirez@pa.gov</a></td>
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<tr>
<td>Benson, Michael</td>
<td>AR</td>
<td><a href="mailto:michael.benson@arkansashighways.com">michael.benson@arkansashighways.com</a></td>
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<tr>
<td>Voth, Michael D</td>
<td>FHWA</td>
<td><a href="mailto:michael.voth@dot.gov">michael.voth@dot.gov</a></td>
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<tr>
<td>Douds, Richard</td>
<td>GA</td>
<td><a href="mailto:rdouds@dot.ga.gov">rdouds@dot.ga.gov</a></td>
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<tr>
<td>Trepanier, Jim</td>
<td>IL</td>
<td><a href="mailto:James.trepanier@illinois.gov">James.trepanier@illinois.gov</a></td>
<td>X</td>
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<tr>
<td>Hood, Woodrow L.</td>
<td>MD</td>
<td><a href="mailto:whood@sha.state.md.us">whood@sha.state.md.us</a></td>
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<tr>
<td>Fung, Clement W.</td>
<td>MA</td>
<td><a href="mailto:clement.fung@mhd.state.ma.us">clement.fung@mhd.state.ma.us</a></td>
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<tr>
<td>Williams, James A.</td>
<td>MS</td>
<td><a href="mailto:jwilliams@mdot.state.ms.us">jwilliams@mdot.state.ms.us</a></td>
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<tr>
<td>Trautman, Brett</td>
<td>MO</td>
<td><a href="mailto:brett.trautman@modot.mo.gov">brett.trautman@modot.mo.gov</a></td>
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<tr>
<td>Strizich, Matt</td>
<td>MT</td>
<td><a href="mailto:mstrizich@mt.gov">mstrizich@mt.gov</a></td>
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<tr>
<td>Streeter, Donald</td>
<td>NY</td>
<td><a href="mailto:donald.streeter@dot.mo.gov">donald.streeter@dot.mo.gov</a></td>
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<tr>
<td>Peoples, Christopher</td>
<td>NC</td>
<td><a href="mailto:cpeoples@ncdot.gov">cpeoples@ncdot.gov</a></td>
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<tr>
<td>Seward, Kenny</td>
<td>OK</td>
<td><a href="mailto:kseward@odot.org">kseward@odot.org</a></td>
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<td>Lane, Becca</td>
<td>ON</td>
<td><a href="mailto:Becca.Lane@ontario.ca">Becca.Lane@ontario.ca</a></td>
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<td>Lane, Danny</td>
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<td><a href="mailto:danny.lane@tn.gov">danny.lane@tn.gov</a></td>
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<tr>
<td>Williams, Kurt</td>
<td>WA</td>
<td><a href="mailto:willikr@wsdot.wa.gov">willikr@wsdot.wa.gov</a></td>
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</tbody>
</table>

Liaisons, Non-Voting Members, and Friends as of 7/19/2016:

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Email</th>
<th>Present</th>
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<tbody>
<tr>
<td>Rothblatt, Evan</td>
<td>AASHTO</td>
<td><a href="mailto:erothblatt@aashto.org">erothblatt@aashto.org</a></td>
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<tr>
<td>Lacinak, Henry</td>
<td>AASHTO</td>
<td><a href="mailto:hlacinak@aashto.org">hlacinak@aashto.org</a></td>
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<tr>
<td>Malusky, Katheryn</td>
<td>AASHTO</td>
<td><a href="mailto:kmalusky@aashto.org">kmalusky@aashto.org</a></td>
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<tr>
<td>Knake, Maria</td>
<td>AMRL</td>
<td><a href="mailto:mknake@amrl.net">mknake@amrl.net</a></td>
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<tr>
<td>Lenker, Steven E.</td>
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<td><a href="mailto:slenker@amrl.net">slenker@amrl.net</a></td>
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<td>Curry, Jonathan</td>
<td>Industrial Fabrics Assoc. International</td>
<td><a href="mailto:jicurry@ifai.com">jicurry@ifai.com</a></td>
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<td>Holt, Anne</td>
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<td><a href="mailto:anne.holt@ontario.ca">anne.holt@ontario.ca</a></td>
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<tr>
<td>Schell, Hanna</td>
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<td><a href="mailto:Hannah.Schell@ontario.ca">Hannah.Schell@ontario.ca</a></td>
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<tr>
<td>Watson, Ronald</td>
<td>RJ Watson, Inc.</td>
<td><a href="mailto:rwatson@rjwatson.com">rwatson@rjwatson.com</a></td>
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<tr>
<td>Allen, Tony</td>
<td>WA</td>
<td><a href="mailto:allent@wsdot.wa.gov">allent@wsdot.wa.gov</a></td>
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</table>
III. Approval of Technical Section Minutes
The TS-4e Annual Meeting Minutes from August 5, 2015 in Pittsburgh, PA were approved during the TS-4e 2016 Mid-Year Web Meeting on January 19, 2016.

Approval of TS-4e Mid-Year Web Meeting Minutes from January 19, 2016.
- Motion made by MS, seconded by TN. All were in favor. Motion passed to approve the Mid-Year Web Meeting Minutes.

IV. Old Business
A. SOM Ballot Items
   1. All items were addressed at the Mid-Year Meeting.
      - Most of these items were addressed editorially and moved forward and will be included in the Standards published in 2016.

B. TS Ballots
   1. SOM_TS4E-16-01 (Due Date 7/11/2016):
      i. Item 1: M 288 Geotextile Specification for Highway Applications. Proposed revisions based on TS-4e Task Force 2015-01 work to include a higher strength class geotextile (Class 1A), to include revisions to silt fence requirements, to include new requirements for geogrids and geotextiles for soil reinforcement applications, and to include requirements for AASHTO NTPEP marking of geotextiles.
         - NY was the lead for this task force. NY provided proposed revisions in an M 288 redline document. The revisions included performance acceptance of geotextile used for silt fence applications, a new Class 1A for a higher strength geotextile, and other revisions proposed from various industry representative. The chair cleaned up the document that came from NY and sent out the revised document as the TS Ballot.
         - Several TS Ballot comments were received as listed in Section IV.B.1.b and Section IV.B.1.c below. NC would like to see all of Tony’s comments addressed before moving forward. The Chair would like to have a task force work on Tony’s comments. MO would like to see the performance test included that is referenced in the document. GMA provided a consensus document to the Chair to take into consideration for proposed revisions to include geogrids for base reinforcement applications.
         - Jim Goddard indicated the ASTM Committee D35 would like to review this standard.
         - GMA: If the proposed revisions for base reinforcement applications can be removed from this and handled separately so the focus can be on the other items, would that be OK? The Chair thought that would be best.
         - 2015-01 was the original task force. Bob Burnett (NY) was the lead, but is retiring very soon. Tom Burnett (NY) will participate on this task force. WA, MS, NC, PA, Jonathon Curry (IFAI/GMA), Mike Clements, and Ken Bedenbaugh are all members of the task force. The Chair will volunteered to make the revisions to M 288 coming from the task force. Jim Goddard will be added to this task force.
         - The Chair sent out a Doodle poll on July 22, 2016 to task force members to identify potential dates for conference call in anticipation of needing task force to address the TS Ballot comments. Based on poll results to date, the best date appeared to be August 29th. Katheryn will send out an Outlook appointment to all task force members for at least this date for task force to address the TS Ballot comments.
         - Mike Clements expressed GMA worked hard on Section 12 to have it ready for the states. They have a few comments to suggest for Section 11.
         - Motion for concurrent ballot item for M 288 resulting from task force 2015-01 conference call. Motion made by NC, seconded by TN. All were in favor. Motion passed.
            a. Ballot Results: Affirmative 9 of 14, Negative 2 of 14, No Vote 3 of 14.
            b. Ballot Negatives with Comments:
               Peoples (NC): I would like to see all Tony Allen’s comments addressed before we accept.
Ramírez (PA): Negative is mainly due to belief that these revisions are not sufficiently
developed or discussed within a joint DOT and Industry Task Force for consideration
as a proposed revised M 288 to the full SOM (i.e., full SOM ballot item). Also, there is
a moderate level of work to be done with little time for a task force to accomplish the
work before the TS-4e annual meeting minutes and ballot items are due.

There should be consensus as to the physical property requirements as well as the
applicable applications. This revised standard proposes new applications for
geotextile as well as applications for geogrid that appear to not be fully supported at
this point by either owner agencies or industry.

In some areas, it appears additional work by a task force is required to review
completed research and propose appropriate revisions supported by the newly
completed research.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Perhaps to not sink all the proposed revisions in this Tech Section ballot, the Tech
Section should move forward these revisions in parts (e.g., silt fence proposed
revisions as a stand-alone SOM ballot item).

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Other technical comments (See Attachment 1 of TS-4e Annual Meeting Agenda).

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Other editorial comments (See Attachment 1 of TS-4e Annual Meeting Agenda) will be
addressed as appropriate.

c. Ballot Affirmatives with Comments:

Strizich (MT): Section 8.5 “enhancement” -- this is new and it would be helpful to
further define the intent of this application.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Section 12 “geogrid for base course reduction” -- agree that a lot of newer research is
out there and a task force group should review these properties to see if they can
come to a consensus on what to use.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Benson (AR): 5.1 I feel like the contractor should also provide the marking code for
the material he certifies, this could be verified in the field to the material delivered to
the job site.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

5.4: There could be some question whether or not the geotextile products are
required to be evaluated by NTPEP. 5.4 only states that Geotextiles shall be marked
and labeled per NTPEP. Is the intent that the Geotextiles are to be evaluated also?
Add language that Geotextiles / Geosynthetics to the last statement in 5.4. “Geogrids
and Geosynthetics shall be evaluated....... " this will make it clear what the intent is.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

6.1: Lot size is not clear. See Tony Allen’s comments in draft.

Response: To be addressed by task force 2015-01 for concurrent ballot item.
Table 6 and Table 1 does not include puncture or tear for class 1A materials. Table 4 indicates that type 1A materials can be places for separation with moderate and severe conditions.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Placement of the column for Class 1A in Table 1 appears to serve no purpose other than to define test properties as indicated in footnotes. No requirements are listed in the table for this Class except for elongation. All other requirements appear to be in Table 6 which references the Class 1A. This is somewhat confusing as the reviewer expects to see some requirements for Class 1A in Table 1.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Similarly, inclusion of wide width tensile in Table 1 with no requirements for any Class is somewhat confusing.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

Other editorial comments will be addressed as appropriate (See Attachment 1 of TS-4e Annual Meeting Agenda).

Trautman (MO): In Section 9.4, it mentions performance based specifications can be substitute for material property based specifications. Could a note be added mentioning possible performance tests that could be utilized.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

d. Ballot Comments from Friends:

Curry (IFIA-GMA): Attached (See Attachment 2 of TS-4e Annual Meeting Agenda) is a copy of GMA’s "Specification for Geogrid for Subgrade Stabilization Applications." This specification was approved on July 8, 2016 by GMA’s Executive Council and Geogrid Focus Group, and represents a consensus effort. We propose that this language be utilized as a replacement for the language in Item 12 (geogrid section) of the proposed m 288 TS Ballot 2016-01.

Response: To be addressed by task force 2015-01 for concurrent ballot item.

ii. Item 2: MP 25 Performance-Graded Bituminous Sealants. Proposed revisions to revise from "bituminous sealants" to "hot-poured asphalt crack sealant", to include reference to new proposed standard TP xx to replace the SC-4 reference in this standard, and corrective revisions to Table 1 and the minimum apparent viscosity value.

a. Ballot Results: Affirmative 11 of 14, Negative 0 of 14, No Vote 3 of 14.

b. Ballot Comments: No comments.

c. Ballot item passed with 2/3 vote of TS-4e. SOM Ballot Item?

d. TS-4e Decision for SOM Ballot:

- Motion to move MP 25 to SOM ballot. Motion made by TN, seconded by FHWA. All were in favor. Motion passed.


a. Ballot Results: Affirmative 11 of 14, Negative 0 of 14, No Vote 3 of 14.

b. Ballot Comments: No comments.

c. Ballot item passed with 2/3 vote of TS-4e. SOM Ballot Item?

d. TS-4e Decision for SOM Ballot:

- Motion to include as an SOM Ballot item to adopt as a new provisional test method. Motion made by MS, seconded by TN. All were in favor. Motion passed.
iv. **Item 4:** PP xx, Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant. Proposed new provisional practice. This standard is similar to R 29 but intended for grading and verifying the sealant grade (SG) of hot-poured asphalt crack sealant. It was developed through the Sealant Consortium Transportation Pooled Fund Study.
   a. Ballot Results: Affirmative 11 of 14, Negative 0 of 14, No Vote 3 of 14.
   b. Ballot Comments:
      - **Douds (GA):** Needs formatting in AASHTO standard format.
      - **Response:** The Chair will get these formatted by AASHTO.
      - **Trautman (MO):** On Page 3, Note 3, should the installation temperature be recommended by the sealant manufacturer instead of the seller.
      - **Response:** Discussion occurred regarding providing typical temperature ranges as information.

   On Page 5, Note 8, should the installation temperature be recommended by the sealant manufacturer instead of the seller?
   - **Response:** Discussion occurred regarding providing typical temperature ranges as information.
   - **Action Item:** The Chair would like a temperature range he can include in the standard. Include the word “may” so it is not a required range. The Chair will work with MO to address his comments.
   - **Motion to include as an SOM Ballot item to adopt as a new provisional practice.** Motion made by NC, seconded by MO. All were in favor. Motion passed.

C. **Task Force Reports**
   1. **Joint SOM TS-4e and SCOBS T-2 Task Force.** No report.
   2. **Task Force 2006-01.** M 251 Proper Testing Frequency & Realistic English Units.
      - **MS thinks it is worth taking a look at that since the design standards are now in place.** The Chair will lead this. MA and NC will help the Chair. They will reach out to NTPEP to work together on this.
      i. Summary Results of Survey on Prefabricated Geocomposites for Pavement Base Drain & Other Applications (See Attachment 3 of TS-4e Annual Meeting Agenda).
         - **The Chair reviewed the survey results received to date.** Majority of respondents supported developing an AASHTO Standard for prefabricated geocomposites for pavement edge drains and/or for structure/wall drains.
   4. **Task Force 2010-01.** Evaluate Possible Revisions to TP 85, TP 86, TP 87, TP 88, TP 89 and TP 90.
      i. Consider adopting as full standards in 2016 SOM Ballot.
         - **Motion to send TP 85, TP 86, TP 87, TP 88, TP 89, and TP90 to SOM Ballot to adopt as full standards.** Motion made by NC, seconded by FHWA. All were in favor.
            Motion passed. Chair to sunset this task force.
      - **Discussion occurred under Section IV.B.1.i above (TS Ballot 16-1 Item 1).** D35 has members that would be interested in giving feedback. Virginia is also interested in helping. Task force to hold conference call tentatively on August 29.

V. **New Business**
   A. **Research Proposals**
      1. **20-7 RPS**
         i. **Continued support of Bob Burnett’s proposed RPS entitled ‘Cost Effectiveness of Geotextiles Used as Separators’**.
         - **TS-4e Decision:** Motion to submit RPS again. Motion made by NC, seconded by MS. All were in favor. Motion passed.
   2. **Full NCHRP RPS – No proposals to date.**
   
   B. **AMRL/CCRL - Observations from Assessments – None.**
C. NCHRP Issues
D. Correspondence, calls, meetings – None.
E. Presentation by Industry/Academia
   1. Performance-Graded Hot-Pour Asphalt Crack Sealants – Hasan Ozer/Imad Al-Qadi - The University of Illinois at Urbana-Champaign. Presentation made by Hasan Ozer.
F. Proposed New Standards – None. Except those that went out on TS Ballot 16-01 as follows:
   1. TP xx, Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR).
   2. PP xx, Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant.
G. Proposed New Task Forces
   - Re-established membership of older ones, but no new task forces formed.
H. Standards Requiring Reconfirmation –
   1. The following provisional standards require a 1-Year Extension Ballot (end of 6 years) if not proposed for adoption as full standards in the 2016 SOM Ballot.
      i. TP 85, TP 86, TP 87, TP 88, TP 89 and TP 90.
   **TS-4e Decision to Extend or Adopt as Full Standards:** Discussed above under Section IV.C. (Old Business, Task Force Reports, Task Force 2010-01). TS-4e moved to send TP 85, TP 86, TP 87, TP 88, TP 89 and TP 90 to SOM Ballot to adopt as full standards.
I. SOM Ballot Items (including any ASTM changes/equivalencies)

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<tr>
<td>M 288</td>
<td>Revise</td>
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<tr>
<td>MP 25</td>
<td>Revise</td>
<td>SOM</td>
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<tr>
<td>PP xx</td>
<td>Adopt (New Provisional)</td>
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VI. **Open Discussion**
   - None

VII. **Adjourn**
   - Meeting adjourned at 5:00 p.m.
### 2016 Annual Meeting Summary

**Meeting Date:** 8/2/2016

### Items approved by the TS for TS/Subcommittee/Concurrent Ballot

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<th>Standard Designation</th>
<th>Summary of Proposed Changes</th>
<th>TS Only, Subcommittee Only or Concurrent? (TS / S / C)</th>
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<td>M 288</td>
<td>The changes in the standard will reflect the discussion that takes place in the next task force 2015-01 conference call.</td>
<td>C</td>
</tr>
<tr>
<td>MP 25</td>
<td>Editorial/technical revisions were made.</td>
<td>S</td>
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<td>PP xx</td>
<td>Adoption to new provisional standard. Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR)</td>
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<td>TP xx</td>
<td>Adoption to new provisional standard. Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant. Replacement of Sealant Consortium (SC-4) test method referenced in MP 25.</td>
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### New Task Forces Formed:

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<tr>
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### Research Liaison:

### Other Action Items:

1. Item 4: PP xx, Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant: The Chair would like a temperature range he can include in the standard. Include the word “may” so it is not a required range. The Chair will work MO to address his comments.