

**AASHTO Update
NESMEA
Harrisburg, PA
October 2025**

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Also below,

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Agenda

Strategic Roadmap - NEW!

HM - 45 - 2025 Updates

re:source Updates

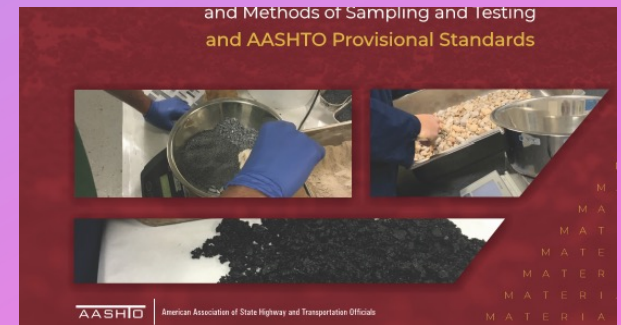
HM-46 - 2025/2026 Ballots

NCHRP Research Projects

NCHRP Synthesis Projects



Strategic Roadmap Approved August 2025



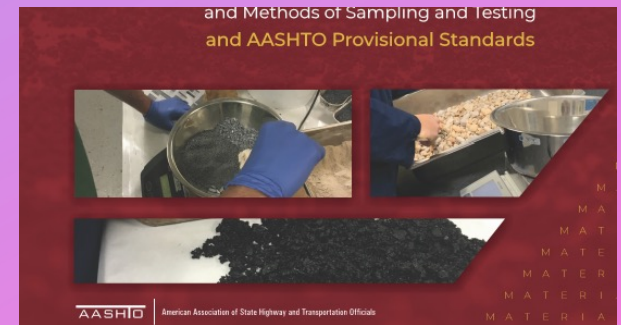
Mission - Create reliable and accessible exchange forums and publications to ensure quality and consistency in transportation materials and pavements.

Vision - Be the trusted resource for quality, consistency, and expertise.

Strategic Roadmap

Values - Inclusion, Service, Expertise, Collaboration and Accountability.

Culture - Welcoming and Innovative Community, Collaborative Excellence for Quality Standards, and Responsible and Efficient

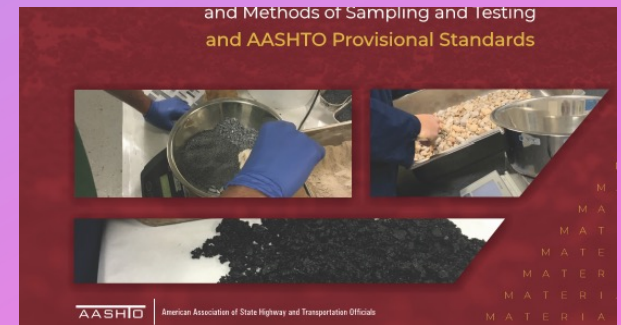


Strategic Roadmap

Focus Areas

Objectives

Action Items



2025 Overview

HM-45

Released July 31, 2025

583 Standards

Revised 103 Standards

20 New Standards



COMP 5 Divisions

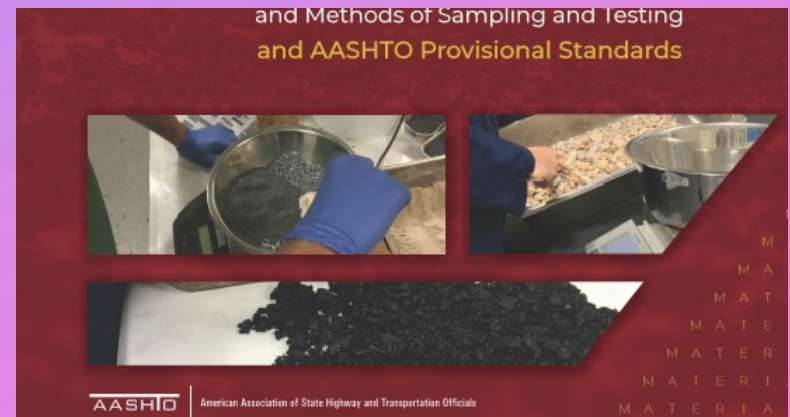
1 - Soils and Aggregates

2 - Asphalt

3 - Cement and Concrete

4 - Miscellaneous - Pipe, Markers, Bearings, Geo

5 - Pavement, Environmental and Quality



2025 – All Divisions

ASTM Equivalence

WAQTC and Other Edits



TS 1c – Aggregates

T 416 - Determination of Alkali Threshold for Alkali-Silica Reactivity Used in Concrete (ATT) - 2025 Revisions for Clarity

TP 144 - Determining the Potential Alkali-Silica Reactivity for Aggregates (TFHRC - TFAST) - 2025 Revisions for Clarity - v2

2025 2b – Liquid Asphalt

New Provisional Test Method

TP 150 - Poker Chip Test of Asphalt Binder

2025 2d – Asphalt Mixtures

New Provisional from NCHRP 9-65

**TP 150 - Development of Balances and Durable
Asphalt Mixtures with High Recycled Asphalt
Materials Content**

2025 2d – Asphalt Mixtures

Updates to standards for BMD

2025 3a Cement Task Forces

TF 09-01 – Task Force on Harmonization of Cement Standards

M 85 - Portland Cement

M 240 - Blended Cement - Alkali reporting

M 327 - Processing Additions - Removes requirement to use sulfur capping

2025 3a Cement Task Force

Task Force on Harmonization of Fly Ash, Etc. Standards

**M 295 - Coal Ash and Raw or Calcined Natural
Pozzolan - Limits on LOI for coal ash**

M 302 - Slag Cement

M 307 - Silica Fume

M 321 - High-Reactive Pozzolans

2025 3b Fresh Concrete - TF 3b 23-01



**R 39 - Lab, R 100 - Field, M 157 - Ready Mixed
Concrete**

**Changes for consistency, removing test
requirements from cylinder making, etc.**

2025 TS 3c - Guide for Reduction of Embodied Carbon Content of Portland Cement Concrete

Published by the CP Tech Center in March 2024

Published by AASHTO in 2025

TS 3c - R 101

Standard Practice for

Developing Performance Engineered Concrete Pavement Mixtures

AASHTO Designation: R 101-22¹

Adopted: 2022

Technical Subcommittee: 3c, Hardened Concrete



Working Group Established and met in DC in July 2024

TS 3c - R 101

Standard Practice for

Developing Performance Engineered Concrete Pavement Mixtures

AASHTO Designation: R 101-22¹

Adopted: 2022

Technical Subcommittee: 3c, Hardened Concrete

AASHTO

Mostly in Tables and corresponding references to them.

Editorials such as updating standards from provisional to full, or renumbering, etc., have been done.

TS 4's – Misc. Items

Updates to many standards for clarity

TS 4f – Metals

Two New Provisionals from NCC – Mark Snyder

MP 49 – Specification for Dowel Bars

TP 146 – Test Method for Dowel Bars

Types: A – Metallic, B – Non-metallic (FRP),

C – A with a coated metallic and

D – A with a coated non-metallic

TS 5a – Pavement Measurements

**Updates to Provisionals on Transverse Pavement
Profiling Systems**

TS 5c – R 122 – Quality Assurance of Portland Cement Concrete

CMD

Quality Control

Agency Acceptance

IA – R 44

Dispute Resolution

Evaluation of Rejected Concrete

TS 5c – Quality Assurance

QA of Cold Central Plant Recycling

QA of Cold In-Place Recycling

TS 5d - Pavements

Late 2026 - Updates to the MEPDG - MOP and AASHTOWare Pavement ME Design, Version 4.0 along with training

- Updates related to Asphalt Creep Compliance**
- Multiple Asphalt Overlays**
- Concrete Friction and Recalibration**
- MSCR, Recycling and Rubberization**

TS 5d - Pavements

**Early 2026 - Pavement Design, Construction, and
Management - 2nd Edition**

re:source Changes

**Promoting One Stop Shop -
Going well so far!**

**States back to 26 month
schedule**



re:source Technical Exchange

Upcoming Events

2025 Virtual AASHTO re:source Technical
Exchange
November 5-6, 2025

We are still planning this virtual event, so check back for more details.



2026 AASHTO re:source Technical Exchange
March 2026 in Louisville, KY

Check back later for specific dates and other event details. To learn more about this event, visit the below links to past Technical Exchange events.

2026 Upcoming Good Stuff

Most have passed TS ballot

In COMP Ballot Process

**Temp Measuring
Devices Enforcement –
On hold**

**TF on TMD
M 339 – Thermometers
Ballot**



AASHTO – ASTM Pilot Project on Standards Development

ASTM SCM --→ AASHTO

AASHTO SAM---→ ASTM

TS Ballot (closed 9/18/25) - WK70466 – SCM for Use in Concrete

2026 – Division 2 Updates to BMD



Move to a newer system of classifying

2026 – Division 3 TS 3a - Cement



TF changes:

M 240 - Blended Hydraulic Cements

- MgO limit to 6% of PC constituent**
- Type Designations - Inc. allow. for production as in batching**
- Rev of MS and HS to add ASTM C452 - Pot. Exp. of PC Mortars Exposed to Sulfate**
- New Type IC allows for increasing percentages w/o changing limits**

2026 – Division 3 TS 3a - Cement



More TF changes:

M 295 - Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

- Remove Drying Shrinkage from Optional Physical Req'ts**
- Scope language added from previous Note**

2026 – Division 3 TS 3a - Cement



More TF changes:

M xxx - Natural Pozzolan based on M 295 Class N

**M 302 - Slag Cement - Fineness #325 - Air Jet (C1891) alt.
to T 192**

**M 327 - Processing Additions - Number and Types of
Cements**

2026 – Division 3 TS 3a - Cement



**T 98M/98 Fineness of Portland Cement
by the Turbidimeter - Withdrawal**

2026 3b Fresh Concrete



M 157 - Ready Mixed Concrete - Flex. in Sampling Locations

R 100M/R 100 Casting and Curing Concrete Strength Test Specimens in the Field - Minor Edits

2026 3b Fresh Concrete



T 345 Passing Ability of Self-Consolidating Concrete (SCC) by J-Ring

T 347 - Slump Flow of Self-Consolidating Concrete (SCC)
- Clarification to measurement of slump flow diameter

2026 3b Fresh Concrete



R 64 - Sampling of 2-inch Cubes - Clarification of Tamping

T 351 - Visual Stability Index of SCC - Use whole #'s

T 396 - Box Test - Comments from Texas

2026 TS 3c – Hardened Concrete

R 80 – ASR Standard – NCHRP Edits

R 80 – ASR Standard – TFHRC Edits – TFAST (TP 144) and ATT (T 416) - Appendix and Examples

T 380 – MCPT – Updates

Alkali–Silica Reactivity Potential and Mitigation - NCHRP RR 1083

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R 80 - Section 2 – Referenced Documents

- **Add T 380 - Potential Alkali Reactivity of Aggregates and Effectiveness of ASR Mitigation Measures (Miniature Concrete Prism Test, MCPT)**
- **Add ASTM C 1778 - Standard Guide for Reducing the Risk of Deleterious Alkali-Aggregate Reaction in Concrete**



R 80 – Section 8 - Preventive Measure – Prescriptive

Minimum Replacement Levels Higher



TFHRC ASR Work

Appendix (non-mandatory) for

TP 144 - Determining the Potential Alkali–Silica Reactivity of Aggregates (TFHRC-TFAST)

T 416 - Determination of Alkali Threshold for Alkali–Silica Reactivity in Aggregates Used in Concrete (ATT)

RI = reactivity index; Si = silicon.



2026 TS 3c – Hardened Concrete

TF 24-01 – ASR – Still Active

2026 TS 3c – Hardened Concrete

New Standard

**Flexural Response of Ultra-High Performance Concrete
(UHPC) Prisms in Four-Point Bending**

2026 TS 3c – Hardened Concrete

T 357 - Predicting Cl Penetration of PCC by Rapid Migration Procedure

Addition of Method B to follow a European test method to determine a migration coefficient that is widely used and accepted.

2026 TS 3c – Hardened Concrete

Updates to Resistivity Standards

T 358 (Surface) and T 402 (Bulk) - Thermometer and Temp

T 402 - Testing air temp consistent with T 358

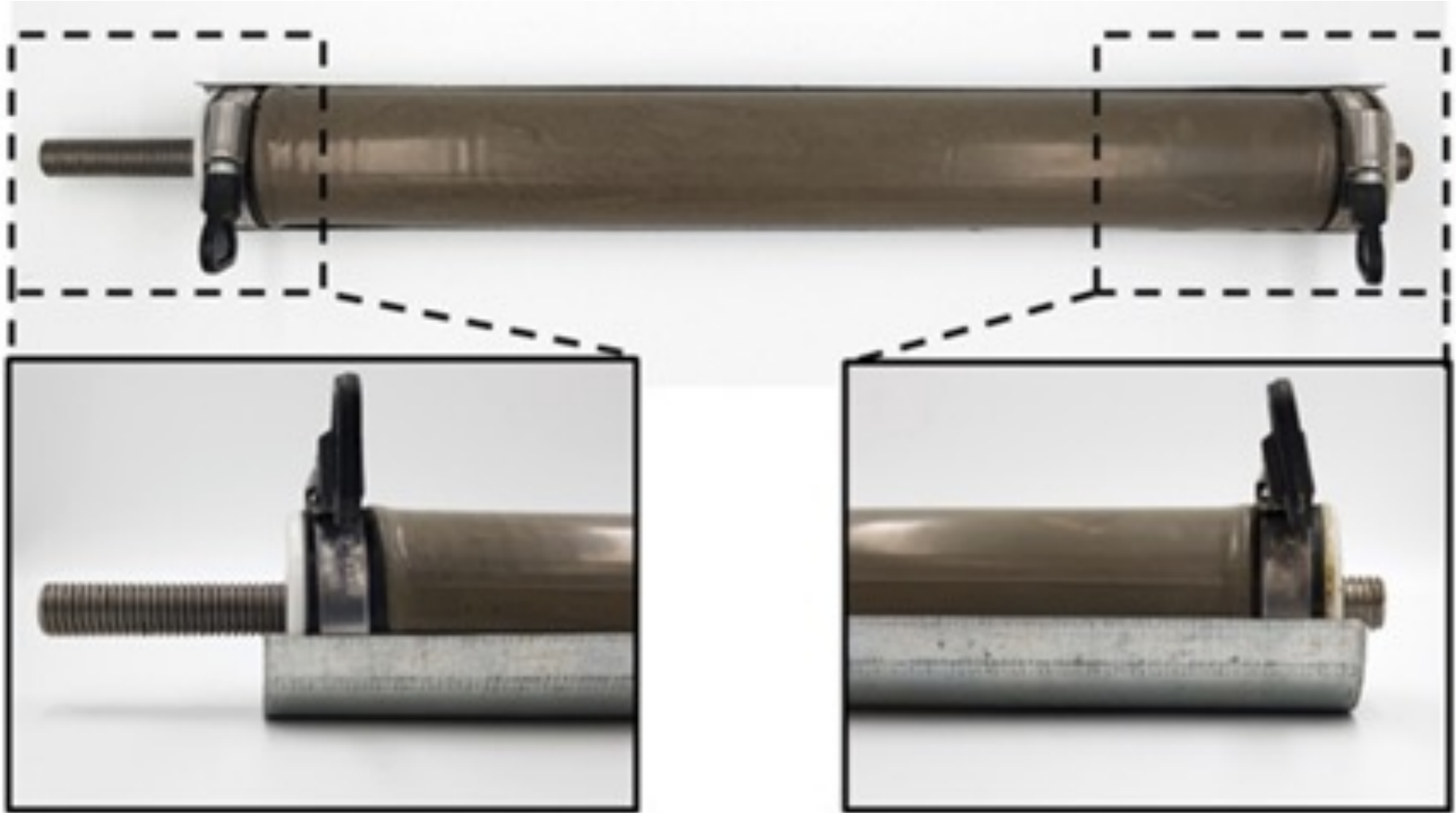
T 358 - Edits to Accelerated Curing

- **Allowance for automated systems**
- **Clarified analysis and reporting**
- **Clarified ranges of classification in 'data interpretation'**

2026 TS 3c – Hardened Concrete

New Standard

**Autogenous and Total Shrinkage Strain of Paste, Mortar,
and Concrete with the Plastic-Sleeve Test Method**



NCHRP Research – All Projects

All NCHRP

Research Field 1 - Pavements

Research Field 2 - Economics

Research Field 3 - Operations and Control

Research Field 4 - General Materials

Research Field 5 - Illumination and Visibility

Research Field 6 - Snow and Ice Control

Research Field 7 - Traffic Planning

Research Field 8 - Planning Methods and Processes

Research Field 9 - Bituminous Materials

Research Field 10 - Specifications, Procedures and Practices

Research Field 11 - Law

Research Field 12 - Bridges

Research Field 13 - Equipment

Research Field 14 - Maintenance of Way and Structures

Research Field 15 - General Design

Research Field 16 - Roadside Development

Research Field 17 - Safety

Research Field 18 - Concrete Materials

Research Field 19 - Finance

Research Field 20 - Special Projects

Research Field 21 - Testing and Evaluation of Soils

Research Field 22 - Vehicle Barrier Systems

Research Field 23 - Agency Administration

Research Field 24 - Foundations and Scour

Research Field 25 - Human and Natural Environment

Research Field 70 - Pooled Fund

NCHRP Projects Research Field 18 Concrete Materials



NCHRP 18-21 Utilization of Alternative Supplementary Cementitious Materials in Highway Applications

NCHRP 18-22 Concrete Shrinkage Measurement and Cracking Mitigation

18-21 Active, 18-22 Pending

NCHRP FY 27

**COMP Research Summit -
September 22nd**

COMP will send 4 to NCHRP

November 3 2025 Deadline



FY 27 Projects from COMP

Safety Guide for Laboratory and Field Testing

Refining Volumetric Boundaries for Balanced Mix Design (BMD)

Risk-Based and Cost-Effective Agency Verification of Contractor-Collected Pavement and Bridge Profiles

Improving Life Cycle Cost Analysis (LCCA) of Pavements with Geosynthetics Used as Separators with Real Life Cycle Cost Data

NCHRP Synthesis Projects



**Synthesis 638 - Testing Personnel Certifications –
Published – Georgene and Desna**

Thank you so much for your time!

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