Andy Babish, P.E.
State Materials Engineer

Brenda Babl
Executive Asst.

Rob Crandol, P.E.
Assistant State Materials Engineer
- Asphalt Mix Testing
- Pavement Design
- Non-destructive Testing:
  - RIDE
  - FWD
  - GPR
  - SKID

John Schuler, P.E.
Assistant State Materials Engineer
- Concrete Testing
- Structural Fabrication Inspection
- Traffic Marking Materials
- Sign Sheeting
- QA Programs
  - Precast
  - Misc Suppliers
  - Pipe

ACTING Assistant State Materials Engineer
- Soils Testing
- Aggregate Testing
- Geosynthetics
- Geotechnical Engineering
- Pipe installation

Veronica Hendricks
Business Services
- Purchasing
- Procurement
- Inventory
- Fiscal/Budget
- Facilities Management
Materials Division Updates

What are we doing now for tomorrow?

Technology
- Integrate workflow automation with material testing data management tools; AASHTOWARE Project

Materials
- Revising Special Provisions for pavement recycling materials and methods; incorporating lessons learned, building on experience
- Performance based specifications for asphalt mixes (Balanced Mix Design approach)
- Spec 247 - Type XI sheeting for Interstate Highways
Materials Division Updates

Technology - AASHTOWARE Project Materials
Materials Division Updates

Technology - AASHTOWARE Project Materials

- Populate data source tables
- Develop workflows in system
- Beta test system
- Refine/Debug
- Train/Implement

AASHTOWARE Materials

Lab test data

Material Source approval (C-25)

Inspection; Visual, DWR

Manufacturer certifications, Pre-approved products

Project Records “Notebook”

Field test data
Materials Division Updates

Pavement Recycling Methods

• FDR and CCPR maturing, I-64 Segments II & III, I-85, several other projects

• CIR opportunities

• VECAT Certification program now offering certifications for project personnel
Performance Based Specifications for Asphalt Mixes (Balanced Mix Design approach, BMD)

- Potentially higher asphalt contents
- Greater flexibility for Contractor;
  - Innovation
  - Ability to allow more RAP with right quality measures in place
  - Enhanced competition translating to better pricing for VDOT
- Improved pavement performance
Materials Division Updates

Performance Based Specifications for Asphalt Mixes (Balanced Mix Design approach, BMD)
Materials Division Updates

Performance Based Specifications for Asphalt Mixes
(Balanced Mix Design approach, BMD)

- Develop Lab testing specs for cracking and rutting
- Research - Pilot Project Construction / Evaluations
- Lab Equipment acquisition
- Develop and execute Training
- Research - Refine specification requirements
- Statewide Implementation

Timeline:
- 2018
- 2019
- 2020
- 2021
- 2022
- 2023
Spec 247 - Type XI Sign Sheeting

- In support of Executive direction and Traffic Engineering Initiatives

- Specification 247 being revised

- Signs without overhead lighting upgrade from Type IX to Type XI requirements

- Improved driver visibility and legibility
Materials Division

Thank you.