

WisDOT Update

WAPA Conference

Dan Grasser, PE
DTSD Administrator
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2014



Overview of presentation

- ▶ Partnering
- ▶ Construction Season Feedback
- ▶ WAPA / WisDOT Initiatives
- ▶ Our Role in the Budget Process
- ▶ WisDOT Staffing



Partnering

Executive Team

WisDOT

Beth Cannestra

Jerry Menzel

WTBA

Matt Grove

Scot Piefer

ACEC

Marty Hansen

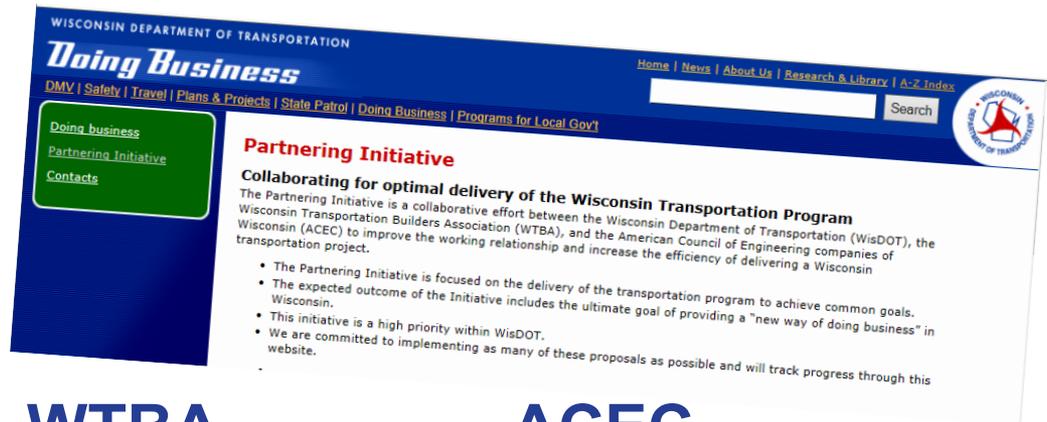
Jill Treadway

Website:

WisDOT/Doing Business/ Partnering Initiatives

<http://www.dot.state.wi.us/business/pi/index.htm>

ACEC & WTBA links to their sites.



Partnering

Current Partnering Priorities

- Process and decision making on disputes, claims, and contract change orders
- Design phase process/quality
- Project schedule/timeline
- Tight contract scoping
- Delegation of authority
- Project closeout



Partnering

Next Approved Partnering Priorities

- Improve plan consistency, limit addenda, increase quality and safety
- Develop rules of engagement
- Contract execution delivery and communication
- Consultant contract amendments
- Improve plan bid ability



Construction Season Feedback

- ▶ Challenges
- ▶ Communications and timely decision making
- ▶ Contractor feedback
- ▶ Young and New staff feedback
- ▶ Early design involvement from the industry
- ▶ Work zone safety for our workers and the traveling public



WAPA / WisDOT Initiatives

- **Green Team** and **HMA Tech Team**
- High Recycle Pilot Program
- HMA Paving Inspection
- Thin Overlay Pilot
- Cold In Place Recycling
- Longitudinal Construction Joint
- Tack Coat Application Rate Specification
- Base Course Compaction
- Combined Bid Item
- VMA Change
- Performance Based Testing of Mixtures
- Cold weather paving Specification



Green Team

- ▶ Goal to “Green Light” initiatives and specification changes.
- ▶ Membership
 - WisDOT
 - Senior Management Team
 - Bureau of Technical Services
 - Bureau of Project Development
 - Industry
 - WAPA
 - Paving Company Senior Management



HMA Tech Team

- ▶ Focused on the following:
 - Standard Specification Revisions
 - Construction & Materials Manual Revisions
 - Facilities Development Manual Updates
 - Highway Technician Certification Program Updates
 - Green Team Initiatives
- ▶ Membership
 - WisDOT BTS & Regional Representatives
 - FHWA
 - Industry Technical Representatives



High Recycle Pilot Program

- ▶ Use of more Recycled Asphalt Pavement & Recycled Asphalt Shingles
- ▶ 3 Pilot Project Initially Selected
 - STH 77, Ashland County (constructed in 2014)
 - STH 73, Dane County (constructed in 2014)
 - USH 141, Marinette County (To be constructed in 2015)
- ▶ Use of 50% Binder Replacement, Test Strips & Performance Testing
- ▶ See this afternoon's breakouts for more details



HMA Paving Inspection

- ▶ Prefer to call this our improve partnership (WisDOT, ACEC, WAPA) with the Asphalt industry.
- ▶ Pavement rep. on all projects over 5000 tons.
- ▶ We will be working with WAPA (Debbie and Barry) Training on expectation, responsibilities for our staff.
- ▶ Goal is to build our bench of expertise and to help collectively ensure high quality pavements.



Thin Overlays

- ▶ To use 9.5mm and 4.75mm mixes to extend the life of a pavement.
- ▶ Replaces the need for mill 2", place 2" paving on sound pavements needing structure.
- ▶ Pilot Project on STH 80 in Iowa County in 2014
 - 9.5 mm mix used
- ▶ WAPA also hosted an open house in October



Cold In Place Recycling

- ▶ Pulverize, foam inject and compact existing pavement
- ▶ Overlay with HMA afterwards
- ▶ Alternative to mill and overlay
- ▶ 1 pilot in 2014 – STH 64, Taylor County
 - Late season – Weather was a factor
- ▶ Potential of 4 or more pilots in 2015 & 2016
- ▶ Lessons learned from STH 64 to be implemented in the SPV



Longitudinal Construction Joint

- ▶ Determining best practices for joint construction
 - Notched Wedge
 - Milled
 - Heated
 - Other
- ▶ Collected contractor & department data in 2014
- ▶ Wisconsin Highway Research Project to analyze & make reconditions just starting



Tack Coat Application Rates

- ▶ Increased from 0.025 gal/sy to 0.05-0.07 gal/sy
 - ASP6 Implementation
- ▶ Team reviewing to update standards in 2015
 - Need to develop a test for residual application rate
 - Guidance for application based on surface type
 - Milled, Concrete, New Construction



Base Course Compaction

- ▶ Included in the Facilities Development Manual
- ▶ Projects being actively let in 2014
- ▶ Lessons being learned during construction
- ▶ BTS will meet with industry this winter to tweak the specification



Combined Bid Item

- ▶ Looking at paying for Asphalt Binder and Mix as one combined bid item
 - Implementing new binder testing protocols
 - Eliminating seldom used mixes
- ▶ Specification under development currently
- ▶ Goal – 2016 Standard Specification



VMA Change

- ▶ VMA increased of 0.5% in E3 12.5mm mixes in 2014
 - Resulted in Asphalt Content increase of 0.1% in 2014 over 2013 and 0.2% over 2011 rates with VMA floor
 - Based on statewide average of all mixes placed
- ▶ VMA increase of 0.5% in E0.3 12.5mm mixes in 2015



Performance Based Testing of Mixes

- ▶ Hamburg Wheel
- ▶ Semi Circular Bending Test (SBC)
- ▶ Disc Shaped Compaction Test (DCT)



Cold weather paving Specification

- ▶ Thank you for the team of contractors, WAPA and WisDOT staff for working together to find a solution that clarifies responsibility, balances risk and improves the final product.
- ▶ Next steps:
 - ▶ Design to pave in best weather conditions
 - ▶ Develop language in the FDM
 - ▶ Complete the Extreme Cold Weather Spec.



WisDOT Budget

- ▶ System Needs
- ▶ Performance Management (Transparency)
- ▶ Innovation
- ▶ Lean Projects
- ▶ Project Quality
- ▶ Project Delivery
- ▶ Safety Tie to our project improvements



WisDOT Staffing – Status

- ▶ 20 % - 3% vacancy rate (2011 - 2012)
- ▶ 180 positions (2013- 2014)
- ▶ Emphasis on construction (2015 HMA projects)
- ▶ WAPA -Training Partnership



Packer game: UW Marching Band I am told the “W” is for WAPA



Questions?

