Materials spec. changes for 2016

2016 Asphalt Regional Seminars

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Assistant State Materials Engineer
Key info for 2016
Noteworthy changes
ALL contracts

• Get more liquid asphalt in our mixes
  • Section 211 - 50 gyration experimental mix design procedures
  • Try to improve durability of mixes over time

• Get proper/better tack
  • Section 310 - Tack & Bond
  • Tack is now a separate pay item
  • Field inspection requirements for ensuring proper application rate -&- measuring/paying for actual quantity applied
Noteworthy changes
ALL contracts

• Allow use of RAP as shoulder stone
  • Special Provision for 305 - RAP use as shoulder stone
  • VDOT and Contractor must both be agreeable

• Scratch courses - provide easier contract mechanism
  • Special Provision – Scratch & Leveling course (industry proposal)
  • VDOT option to use, or not….not required for use by CN staff………..
Chief Engineer focus areas

2016 changes for improving & incentivizing quality
Chief Engineer formed a committee of 6:

3 from VDOT and 3 from VAA

**VDOT**
- Kerry Bates (Construction Division - chair)
- Charles Miller (Business Transformation & Special Projects)
- Rob Crandol (Materials Division)

**VAA**
- Ed Dalrymple (Chemung Contracting)
- Dave Helmick (Superior Paving)
- Brent Moore (A&A)
Focus items discussed

- Milling – quality & required timeframes
- Pavement markings – quality & required timeframes
- Getting better asphalt quality (increasing liquid AC)
- Getting better asphalt density in the field

Where possible – incentive for quality
General criteria for *pilot* projects

- The Chief Engineer has asked that we target no fewer than 15 contracts.
- Spread the work across the state.
- Targeted work should prioritize, as much as possible, the following types of routes to help with the in-place compaction requirements in pilot specs:
  - Interstate/Primary routes
  - Routes with consistent base structure
  - Routes with multiple layers (where available in planned work)
## 2016 *pilot* projects

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Section 211 – Asphalt Mix Design

1. **Minimum AC requirements:**
   - SM-9.5 = 5.5%
   - SM-12.5 = 5.3%
     - NOTE – adjustments for specific gravity may allow lower %AC

2. **Incentive of up to 5% - consistency of AC content**
   - % of unit bid price, per ton, for consistency - *no sieves w/ st. dev. adjustment points to receive bonus.*

3. **Increase of negative adjustment points for being out-of-spec:**
   - from 1% to 3% on process tolerance(s)
   - from 0.5% to 1.0% for standard deviation

   **Pilot projects only**
Section 315 – Asphalt Placement

1. **Field compaction requirements:**
   - Slight increase in field density control strip requirements (all Superpave surfaces now 92.5%)
   - QC by contractor – still requires roller pattern, control strips
   - QA / acceptance – now with plugs/cores (similar to SMA)

2. **Incentive of up to 5% - meeting minimum density requirements with consistency**
   - *must be 100% pay, and have 80% of plugs from each sub-lot be 92.5 - 96.5 % of TMD to receive bonus*

*Pilot projects only*
Questions?