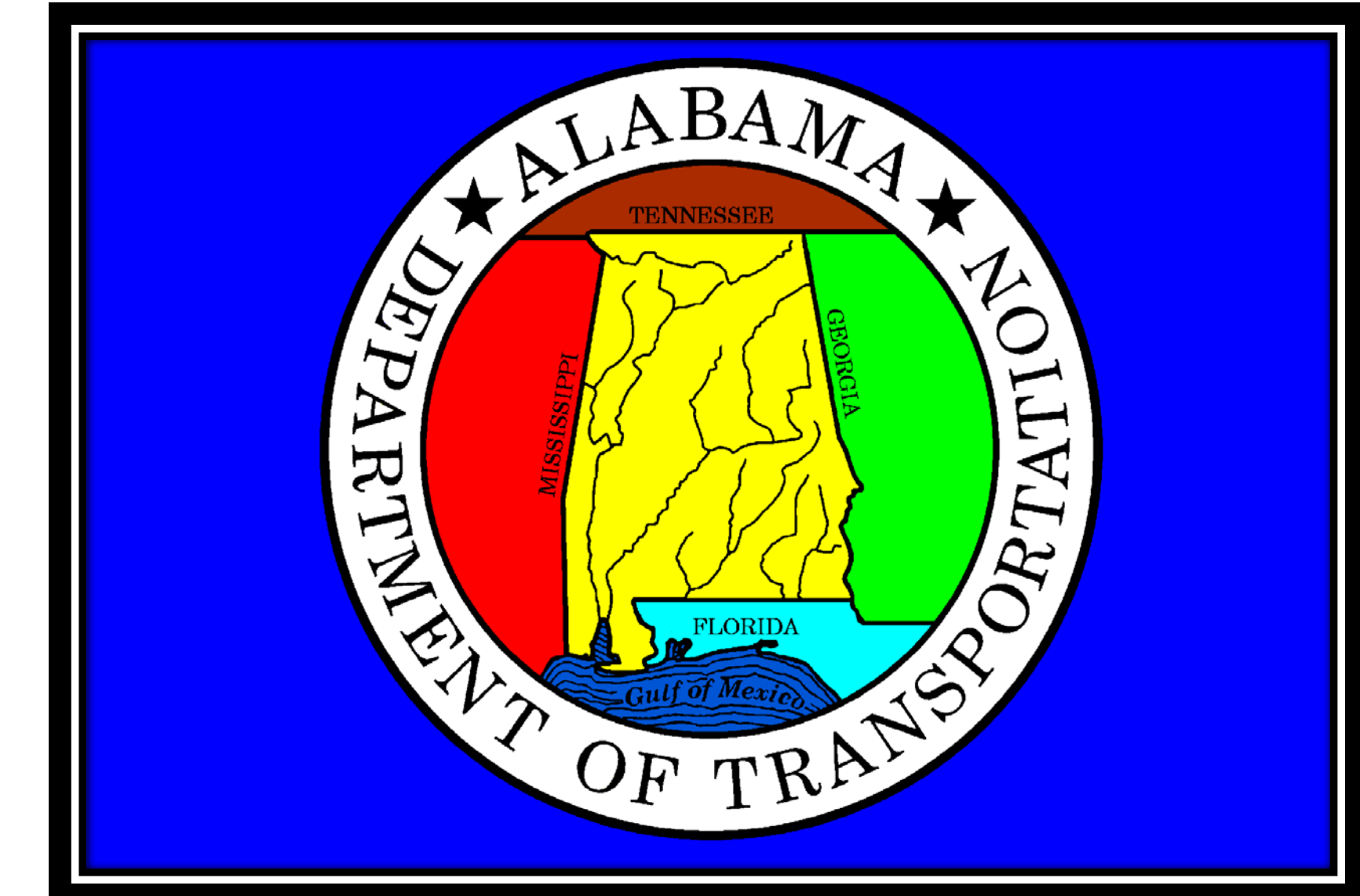




IMPROVEMENT REVISIONS TO SPECIFICATIONS TO EXTEND THE LIFE OF CONCRETE PAVEMENTS

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The Major Differences Between 2008 & 2012 ALDOT Specifications for PCCP

- **Coarse Aggregate Gradations**
 - 2008: Limited to #57, #357, or #467 gradations only. Led to mix designs with gap-graded aggregate.
 - 2012: Requires a well-graded aggregate. Contractor must submit gradations, coarseness factor chart, 0.45 power chart & chart of combined aggregate retained w/ mix design
- **Use of Recycled Concrete Aggregate**
 - 2008: Not allowed
 - 2012: Allowed, provided it meets the requirements of Section 801 for coarse aggregates
- **Mineral Admixture Usage**
 - 2008: Limited to substitution for *one* of the following: 10% silica fume, 20% fly ash or 30% GGBFS.
 - 2012: Contractor may substitute any combination of mineral admixtures for up to 50% total of cement content. Individual components are limited to: 10% microsilica, 30% fly ash, & 50% GGBFS.
- **Maximum Allowable W/C Ratio**
 - 2008: 0.50
 - 2012: 0.45
- **Maximum Slump for Mix Design**
 - 2008: 2.5 inches
 - 2012: 2.0 inches
- **Thickness Measurements**
 - 2008: One core per pavement testing unit (528 linear feet)
 - 2012: Probing the pavement a minimum of twice per pavement testing unit (528 linear feet for mainline, every 250 cubic yards for ramps, shoulders & transitional areas). ALDOT technicians will verify thickness using MIT Scan-T2 at locations within 1' of Contractor's probing points. This completely eliminates destructive testing of the pavement, unless ALDOT & Contractor measurements differ by more than ± 0.10 ". Then, one referee core will be taken.
- **Requirement to Open to Construction Traffic**
 - 2008: 2500 psi but not before 72 hours
 - 2012: 3000 psi but not before 72 hours