

Requirements for Pavement ATC Submittals

Pavement design ATC's may be submitted for consideration. However, no reduction in structure shall be allowed.

Criteria in addition to SCDOT Pavement Design Guide and requirements for the ATC process are as follows:

- Acceptable pavement materials are given in the SCDOT Pavement Design Guide Coefficient of Relative Strength for Flexible Pavement Components, included in this exhibit, or are subject to approval in the ATC process. <http://www.scdot.org/business/pdf/materials-research/PavementDesignGuide2008.pdf>
- Design of pavements or pavement system components not covered in the SCDOT Pavement Design Guide are subject to approval through the ATC process. Provide specifications for materials or processes not covered in current SCDOT specifications.
- Indicate pavement thickness in rate (psy) for HMA courses and inches for all other material types on typical sections. Utilize 110 psy/in for HMA thickness
- Utilize 25 or 50 psy increments for HMA rates
- Follow Asphalt Mix Design Guidelines found on SCDOT website for type and rate. http://www.scdot.org/business/pdf/materials-research/Guidelines_Aspphalt_Mix_Selection.pdf
- Soil-Cement, Section 301 Cement Modified Subbase. The Contractor shall confirm suitability of soils for modification and provide mix design with a minimum strength, during production, of 300 psi for approval. Ensure the full width of the lane/pavement area is mixed.
- Contractor is responsible for mix design of lime modified subbase, include specifications for mix design and final acceptance. Identify criteria for design and method of acceptance.
- Contractor is responsible for mix design of Cement Modified Recycled Base (CMRB). CMRB layers shall not be less than 8 inches or more than 12 inches. CMRB shall be covered with no less than 175 psy of asphalt surface course. Synthetic CMRB may be created by mixing a minimum of 50% of the thickness with graded aggregate base course (GABC) or recycled asphalt pavement (RAP). The Contractor shall confirm suitability of materials for modification. The design strength shall be between 450 and 600 psi.

- Pavement designs may be dependent upon Contractor's selection of alignments. If ATC's are submitted for alignment changes they shall include pavement design for approval.