

## **Technical Specification 017**

### **ASPHALT PAVING**

#### **1.0 General**

- a) Brunswick County does not own and maintain any paved streets, roads, or parking lots other than those that may be found on County owned property. Streets in private subdivisions are designed by an Engineer working for a developer and are generally designed and constructed to the NCDOT subdivision street standards with regards to geometry and load bearing capability. These streets are owned and maintained by either the developer or the HOA / POA.
- b) The intent of this specification is to provide general direction to a contractor that is installing asphalt paving on a County utility project, or at the County's direction for street repairs, patching, drives, parking areas, or the final layer of asphalt within an existing subdivision. It is not the intent of this specification to be a design guideline for street construction – all street construction shall conform with the plans and specifications prepared by an Engineer and with all applicable NCDOT street design requirements.
- c) The contractor shall provide all plant, labor, equipment, and materials in connection with the construction of a hot-mix pavement consisting of a surface course on a previously prepared base, or over an existing initial layer of asphalt, or for minor street patching and repairs, complete, in strict accordance with this specification and any applicable approved drawings prepared by the Engineer.

#### **2.0 Surface Preparation**

- a) The base course shall be placed and constructed as required in the current North Carolina Department of Transportation (NCDOT) Standard Specifications for Streets and Roads.
- b) All drainage structures and pipes shall be properly installed at the locations shown on the plans.
- c) The surface shall be graded to subgrade and compacted as specified by the Engineer. Surfacing shall be finished by fine grading to the required lines, grades, and sections, and by re-compacting the subgrade with heavy rollers.
- d) The bituminous surface course shall be of the type as shown on the plans, and shall consist of fine and coarse mineral aggregate and mineral filler uniformly mixed with hot bituminous material placed and compacted on a prepared base course to the depth specified or as shown on the plans.
- e) Newly placed and compacted asphalt surface course shall be barricaded and protected from all defects for a period of at least eight (8) hours until they have become properly hardened by cooling. Only local traffic will be allowed to egress and ingress.

- f) The contractor shall maintain the pavement in an acceptable condition until final acceptance of the project.

### **3.0 Adjustment of Existing Manholes and Valve Boxes**

- a) All existing manhole covers, monument boxes, valve boxes, sewer cleanout boxes, etc., shall be adjusted to match the grade of the proposed overlay.

### **4.0 Cutting and Replacing Pavement for Utility Installation or Repairs**

- a) Pavement shall be neatly cut to a straight edge prior to trenching operations. The cuts shall be made per the approved plans. Ragged and irregular edges shall be redone. Concrete pavement shall be cut with suitable concrete saw cutting equipment.

### **5.0 Pavement Replacement**

- a) Pavement shall be repaired within the same week that it is cut. If inclement weather delays pavement replacement, the contractor shall not cut additional pavement without specific approval from the Engineer or County staff.
- b) The surface course shall be hot asphalt laid over the leveling or tack coat to the compacted thickness as shown on the approved plans. After compaction, the pavement surface shall be smooth and true to the established crown and grade. Defects shall be neatly cut out and replaced. Sections of new pavement shall be protected from traffic until the asphalt has properly hardened.
- c) All settlement and damage occurring during construction and the warranty period shall be repaired by the contractor at his cost.

### **6.0 Warranty**

- a) The warranty period for asphalt paving shall be one (1) year from the date of acceptance by Brunswick County.