CITY OF VIRGINIA BEACH

COMMUNICATIONS

Public Engagement
Advanced Technology Center, Room H161
1800 College Crescent
Virginia Beach, VA 23453

Pavement Management

The City's pavement management program focuses on sustaining an appropriate level of roadway quality and applying the right pavement repair or treatment at the right time, on the right projects.

Assessment

A condition assessment and analysis are performed for the City's streets every few years to provide engineers with current conditions they use to develop repair schedules and to compare deterioration rates for life-cycle analysis. This assessment begins with a data collection vehicle driving over 3,400 lane miles of roads in the City of Virginia Beach. This vehicle is equipped with high tech equipment including several continuously streaming cameras, ground penetrating radar, longitudinal profiler, automatic crack detection and transverse profile equipment. The data captured is then analyzed based on the distress types noted and the severity of the distress. Examples of the distress types included are alligator cracking, base failure or settlement, potholes, rutting, linear cracking, and corner or joint spalling. The severity and frequency are observed for each roadway segment, and the final analysis produces a pavement condition index (PCI) for each roadway segment.

Repaving

The PCIs are reviewed for all roadway segments and any street segment with a PCI below 60 are considered candidates for the paving plan. A comprehensive visual inspection of all street segments is also completed which aids in the street segment selection. The City uses intermediate maintenance actions to prolong pavement life that includes crack sealants, surface sealants, chip sealing and sand sealing that may be applied depending on the distress type, road type, traffic volume and speed limit. The City uses these maintenance methods to seal surface cracks and prevent water from seeping into the base, which could cause a base failure and increase the rate at which the road degrades. The surface sealants slow the rate of deterioration and are expected to add an additional three to five years to the existing pavement life before a much more expensive pavement overlay is required. All maintenance efforts utilized by the City are for the structural integrity and safety of vehicular traffic. Aesthetics and recreation in the street are not appropriate uses for the pavement management program funds. The City has limited funding in the pavement management program to maintain the over 3,400 lane miles, and the program strives to address the roads with the greatest needs first, to ensure structural integrity and vehicular safety.

Based on the limited available funds, our paving efforts are being focused on roadway segments with the greatest needs first. In the meantime, if there are areas that you feel may need immediate

attention, such as potholes or protruding tree roots, please don't hesitate to report these to Public Works Customer Service at 757-385-1470 or online at 311:
https://vb311.virginiabeach.gov/assist/servicetypes

