

Danville Housing Authority Pavement Condition Survey



In 2009, as a subcontractor to Berns, Clancy and Associates (BCA), APTech conducted a condition survey of forty-five pavement sections at five housing developments maintained by the Danville Housing Authority (DHA) Fair Oaks, Beeler Terrace, Madison Court, Churchill Tower, and Mer Che Manor, all located north and east of the Danville, Illinois downtown area. The primary objective of this project was to develop a prioritized list of pavement and sidewalk improvements needed, as the majority of the pavement sections were estimated to be greater than 20 to 25 years old and had been minimally maintained.

Prior to conducting pavement condition surveys in the field, BCA and APTech compiled and reviewed general information on the various DHA housing facility pavements. APTech then performed a visual inspection of the DHA housing facility pavements to document the types of distresses present, their levels of severity, and approximate quantities (i.e., how pervasive the distress is over a pavement section). A subjective condition rating was assigned to each pavement section based on the collection of observed distresses and their severity levels and quantities, and the collected pavement condition data were used to compute a pavement condition index (PCI) value for each section. The survey results indicated that more than half of the pavement sections (24 of 45) were in poor to very poor condition and were need of some form of maintenance and rehabilitation (M&R) to improve functionality and restore structural integrity.

For pavement sections in need of some type of work, M&R treatment options were formulated, and weighting factors were used to prioritize the importance of each housing facility and the pavement features within the facilities. Using the prioritization information and the costs computed for the recommended treatment options established for each pavement section, various analyses were performed to identify a set of proposed M&R treatments for three 2010 construction budget/funding scenarios.