

## Offutt Air Force Base MicroPAVER Pavement Management System Update



In 2004, Applied Pavement Technology, Inc. (APTech) was contracted through the Air Force Civil Engineer Support Agency for the update of a MicroPAVER pavement management system at Offutt Air Force Base (AFB) in Nebraska. The pavement management system at Offutt AFB, a technologically cutting edge base with global responsibilities, includes all roadway, parking lot pavements, and airside pavements.

APTech conducted a thorough systems inventory to determine the cross section and construction history of the different pavement areas. This information was used to divide the pavement network into management units and detailed pavement surveys were conducted using automated video imaging data collection equipment. The collected systems inventory and pavement condition data were entered into a MicroPAVER database.

APTech customized the MicroPAVER software by determining unit costs for pavement maintenance and rehabilitation (M&R) activities and developing pavement performance prediction models specific for Offutt AFB pavements. Once this task was completed, APTech evaluated several budget scenarios to assess the impact of each on the overall pavement condition over time. Specific maintenance and repair requirements required to maintain each pavement section above a specified acceptable condition over a 5-year period were also provided. APTech summarized the key results from the project, including the pavement condition index and M&R plan, on color-coded maps in accordance with Air Force standards.