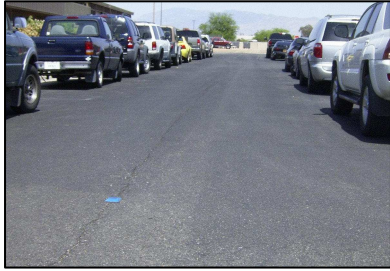


## Davis-Monthan Air Force Base MicroPAVER Pavement Management System Update



In 2006, 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 Davis-Monthan Air Force Base (AFB) in Arizona. The pavement management system at Davis-Monthan AFB, home to the Aerospace Maintenance and Regeneration Group, includes all roadway, parking lot, and airside pavements.

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

To customize the MicroPAVER software, APTech determined unit costs for pavement maintenance and rehabilitation (M&R) activities and developing pavement performance prediction models specific for Davis-Monthan 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. APTech provided specific repair parameters so that the AFB could maintain each pavement section above a specified acceptable condition over a 5-year period, and summarized the key results from the project, such as the pavement condition index and M&R plan, on color-coded maps in accordance with Air Force standards.