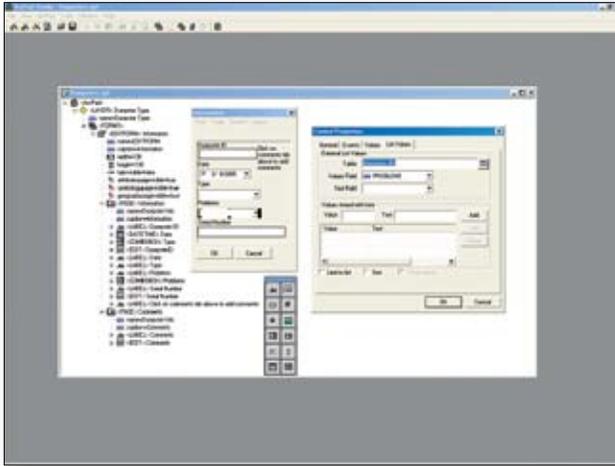
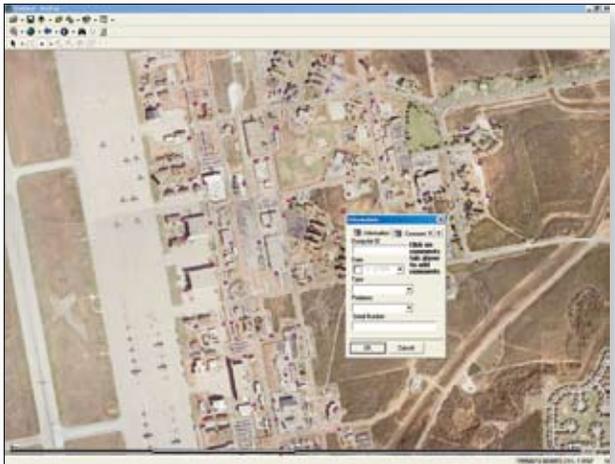


# Reduction in Manpower Required for Annual Survey at Dyess AFB



The setup window for the custom menu options for data collection



Upon creating a point, the data entry window pops up to provide a user-friendly environment for inputting the attributes.

## Mission

Air Force Civil Engineering requires that waste and recycle dumpsters be tracked and logged for contract maintenance purposes. Originally, dumpster tracking involved marking the status of the dumpster on a notepad. There are several inherent issues when an inventory is performed with a notepad rather than a digital method. These issues include interpreting the handwriting on the notepad, inventory repetition, writing correct information, annotating comments, tracking the status of the dumpsters, the inability to truly document how many dumpsters are on location, and the length of time such an inventory would take. A better method was needed to track and inventory the dumpsters.

## Capabilities

To provide a useful solution, a list of capabilities needed to be created. These capabilities included

- Quick-and-easy data collection
- Customizable data collection attributes
- Attribute choices rather than typing in information
- Additions or subtractions of data and attributes
- Trend and problem area analysis
- Directly compatible (import/export) with GIS
- Physical condition tracking
- Features easy to relocate with GPS
- Ease of integration of new data into existing dataset
- Light (portable/easy to carry)
- Short learning curve to basic use

## Contact Information

### Robert Houston

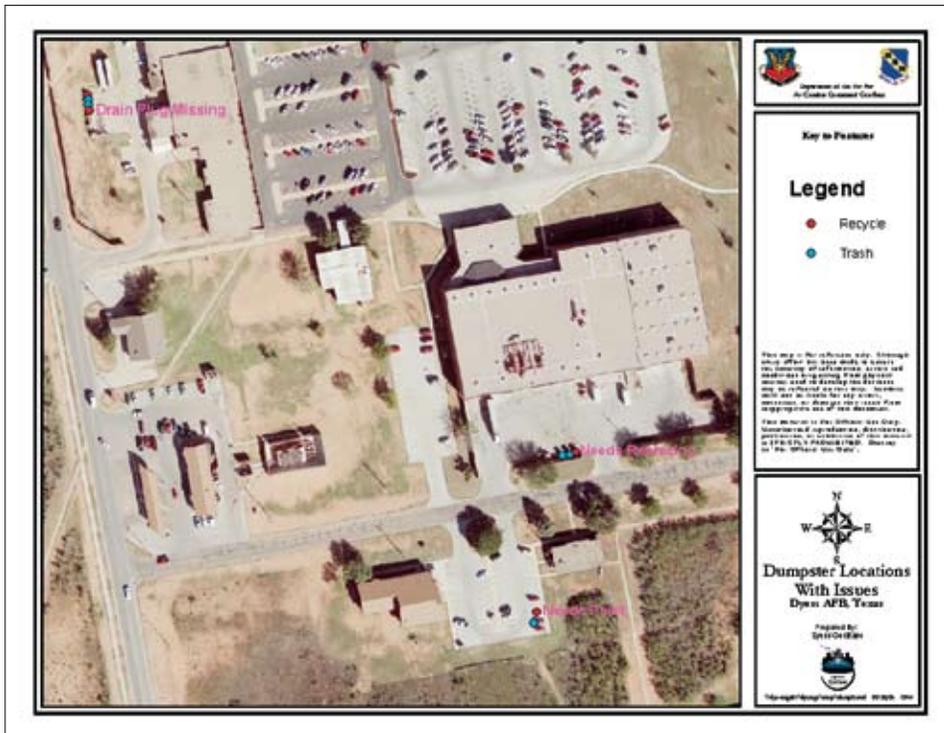
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Color-coded dumpster map with labels on dumpsters stating problem to be resolved

Through fieldwork and meetings, a workflow process was established to utilize ArcMap and ArcPad® to collect and organize data on dumpster locations. The data for both waste and recycle dumpsters was used to add or move the dumpsters to locations that would better serve the customer. The physical condition of each dumpster is entered into the database so damage and usage can be monitored. Areas with higher damage rates or units that fill up faster can be highlighted to point out areas that need improvement.

## Result

The inventory can be performed efficiently and effectively. The total inventory time changed from as many as 20 days to only two days because the maintenance history is collected and saved for future reference. The inventory has the ability to document the total number of dumpsters at the base. This information proved Dyess AFB was short 20 percent of the number of dumpsters required by contract. The base could increase the number of dumpsters by 20 percent at no additional cost and provide better service to its customers.



M. Sgt. Pope updating the attributes of a previously logged dumpster

