

## VOLUME COUNT

### **Automatic Traffic Recorder (ATR) Stations**

The ATR stations are traffic volume counter stations permanently installed throughout the Road Inventory network covering all functional classifications of highways except Urban Local Streets. These ATR stations, along with their identification numbers and the functional classifications of the roadway segments where they are located, have been listed in the AUTOMATIC TRAFFIC RECORDERS table on pages x and xi. Equipped with loop detectors, these ATR stations count the number of all vehicles passing through each location, continuously, throughout the year, and transmit the recorded data via telemetry to the traffic monitoring computers at the Office of Information Technology (OIT) headquarters for electronic data processing. A map of all the ATR locations has been included on page ix for ease of use. The number and distribution of ATR stations in the Road Inventory network shall comply with the 95-10 precision requirements of the statistical sampling process as stipulated in the FHWA's Traffic Monitoring Guide. These ATRs and their associated groupings are currently under revision by the University of Delaware, with changes anticipated for the 2005 book.

The monthly traffic data at ATR stations for the year 2004 is tabulated on pages xii through xvi. ADT denotes Average Daily Traffic, in this case for each month, and AADT is the Annual Average Daily Traffic in consideration of all 365 days of the year. RATIO, as indicated for each ATR on the table, is monthly ADT divided by AADT.

$$\text{Thus, } \text{AADT} = \text{ADT} / \text{RATIO}$$

Each value under RATIO constitutes a monthly Seasonal Adjustment Factor (SAF).