

NYCDOT ITS On-Call Pedestrian Signal Survey



Client/Owner: New York City Dept. of Transportation

Project Location: Manhattan, Brooklyn, Queens, Bronx & Staten Island, NY

In the fall of 2006, the New York City Department of Transportation (NYCDOT) installed pedestrian countdown signals at five intersections around New York City as part of a pilot study designed to assess the impact of countdown timers on the behavior of pedestrians and motorists. Under our on-call services agreement with the NYCDOT, GPI conducted pedestrian counts and surveys at the five study intersections, both before and after the installation of the pedestrian countdown signals. The study included pedestrian and vehicular counts and pedestrian surveys designed to quantify pedestrian crossing behavior (including pedestrian signal compliance and violations), as well as to assess potential pedestrian-vehicle conflicts and knowledge of pedestrian crosswalk safety. GPI then compared the “before” and “after” pedestrian and vehicular data to analytically show any changes in behavior.

GPI performed data collection tasks, analyzed the resulting data, and prepared a report discussing the pilot study and its conclusions. Specific project tasks included:

- Full turning movement counts, vehicular speed counts, and vehicular counts during amber and red indications
- Pedestrian crosswalk counts and pedestrian surveys
- Tabulation and analysis of accident data and preparation of accident summary memorandum
- Pedestrian and vehicular data analysis and the development of preliminary conclusions
- Preparation of technical memorandums for both the “before” and “after” studies
- Preparation of Final Report for the entire study.