

## RJ Corman Railroad Mapping GIS Project

project description | survey

### location

Kentucky, Ohio, Pennsylvania,  
and West Virginia

### client

Photo Science  
(859) 277- 8700

### completion date

2007



CDP was contracted in the fall of 2006 to locate the centerlines of many of RJ Corman's railways with GPS which would serve as control for Photo Science to produce photogrammetry. We utilized Trimble Pro XRS mapping grade GPS units and mounted them with magnets to the top of high-rail vehicles. We rode with RJ Corman employees who had extensive knowledge of their railways. Care had to be taken to ensure the rail line was not in use. In addition to the centerlines of the railways, we also took additional observations at road crossings, storm culvert crossings, and mile markers. CDP mapped over 300 miles of railway through rural and urban areas in Kentucky, Ohio, Pennsylvania, and West Virginia. The GPS data collected in the field was post-processed using Trimble Pathfinder Office software in order to obtain the most accurate horizontal and vertical positions possible.

This project required extensive coordination with both Photo Science and employees of RJ Corman. The photogrammetry created as a result of this project would be the basis for a Geographic Information System (GIS) with which RJ Corman could more effectively manage their growing network of railways.

