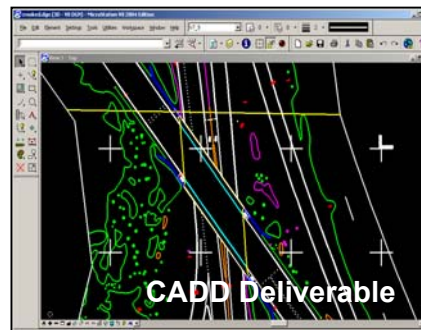
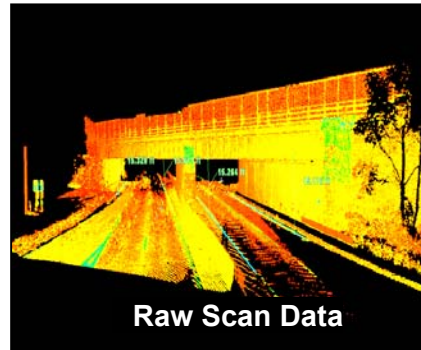


Pilgrim Intermodal Site



Client/Owner: New York State Dept. of Transportation

Project Location: Long Island, New York

GPI used its state of the art **3D Laser Scanning** technology in conjunction with **Low Altitude Precision Photogrammetry** to provide design accuracy mapping, bridge clearance and as-built detail for 5 bridges for the Pilgrim Intermodal site. The **MicroStation** CADD deliverables were produced in significantly less time and money than would have been required by conventional methods. No lane closures or traffic disruptions were required resulting in less disruption to the public and higher levels of safety to workers. The raw data files were archived to be available to prevent future call backs. This will result in additional savings of time and money, as well as the ability to “double check” items of question.

GPI was contracted to provide a **survey** for a total of 5 bridges, 3 of which were along the Long Island Expressway. GPI also provided 3 miles of **precision photogrammetric mapping**, for a 150M bandwidth along Commack Road. Traffic control and lane closures would have been a major undertaking and personnel safety would have been a concern because the road provided minimal shoulders and median to work in.

The decision was made to use **3D Laser Scanning** to provide the survey and clearance information. All raw scan data was acquired from behind traffic barriers, eliminating the need for traffic control, ladders or bucket trucks. The raw data was registered to New York state plane coordinates utilizing GPS and Conventional **Survey** techniques. The **deliverable** included a **3D MicroStation** drawing. Clearance elevations were also provided as a **deliverable**. With the raw data scans archived as the digital field book for the project, future inquiries about the structures could be addressed from the office without mobilizing a field crew and necessitating traffic control.

Completion Date: 2004