

GEOD Offers You:

- Photogrammetric Mapping
- Land & Engineering Surveying
- Construction Surveys
- GIS Base Mapping
- Subsurface Utility Markouts

Inside this issue:

NYS Thruway Projects	2
NJDOT Freight Transportation Infrastructure	2
GSP Bridge Deck Reconstruction	2
Baltimore Red Line	3
NYC DEP—Catskill Delaware Aqueduct	3
NYC Transit Projects	3
Subsurface Utility Projects	3
GEOD's Fall Puzzle	4



GEOD CORPORATION

AERIAL PHOTOGRAMMETRY • LAND SURVEYING

INNOVATOR

GEOD PROJECT MANAGERS “GEARING UP”

Flying season is again upon us and GEOD’s talented and experienced staff is once again “gearing up”.

As soon as the Fall leaves have drifted to the ground, conditions are prime for aerial photographic projects. This is generally in early November in the New England states and late November for the areas south of Albany, NY and into NJ.

For over 50 years, GEOD has continually updated its equipment inventory to provide clients with the quickest, most accurate information available.

Recently, GEOD became one of only a handful of companies in NJ to purchase **Leica Viva GNSS units**, the latest generation dual frequency GNSS receivers available. They will primarily

GEOD’s innovative use of Low-Altitude Mapping and Photogrammetric (LAMP) technology can provide you with precise project detail and accuracy.

Timing need not be an issue: GEOD will gladly arrange to fly and map in separate stages to spread your project costs.

And, with GEOD’s stock photography of the

entire Hudson Valley, NY area you can save extra dollars – critical in today’s economy.

Call GEOD Project Managers at any time to discuss the possibilities.

973-697-2122



STATE-OF-THE-ART TECHNOLOGY: A TRADITION AT GEOD

be used on the Leica SmartNet Real Time Network which is a real time GPS RTK network that covers NY/NJ/DE. This system provides continuous and consistent RTK corrections over the internet/wireless cell phone network.

GEOD further added the **Terrasolid suite of LiDAR processing software** to its equipment line. GEOD’s photogrammetric staff is now

undergoing intensive training that will enable them to calibrate strips of LiDAR data, classify the data down to bare earth, and then model the data to provide DTM’s, contours and rectified orthophotography of larger areas. This process is significantly more economical than purely photogrammetric methods with conventional aerial photography.

From the Field:

NY State Thruway-On-Call

Under GEOD's On-Call contract for Aerial Photogrammetry and Mapping Services Statewide with the NYS Thruway Authority, it is currently undertaking three separate projects:

- (1) Aerial Photography and Digital Base Mapping of the Ardsley Service Area*** supporting the Thruway's improvement project;
 - (2) Aerial Photography and Digital Base Mapping for Approximately 15 miles along the NY State Thruway New England Extension*** in support of the Thruway's design of roadway and safety improvement project.
 - (3) Topographic Mapping of the NYS Thruway MP 168.75 to 170.20*** in support of the Thruway's improvement design project.
- Services in these projects included:

setting of targets, establishing primary and photo control, establishing right of way and property lines, setting of monuments, base mapping, field edits and supplemental services, all in accor-

dance with NYSTA standards and specifications.

NJDOT Freight Transportation Infrastructure Project

GEOD has been asked to provide the laser scanning and point cloud data extraction services for the NJDOT Freight Transportation Infrastructure Field Measurements and Data Collection project. The scanning will involve horizontal and vertical clearances on highway bridges throughout the state. Measurements will be taken in both travel directions of the roadway and the measuring system will produce an image cloud that defines the dimensions of the opening beneath the structure.

Obstruction Analysis Mapping for the Port Authority NY/NJ - LaGuardia and Stewart International Airports

Under GEOD's On-Call Term contract for photogrammetric mapping with the Port Authority of NY/NJ, it was asked to provide mapping and an obstruction analysis for both LaGuardia and Stewart International Airports. Services will include: recovering Primary and Secondary Airport Control Stations

and performing a NGS database search. New color digital photography will be obtained using GPS, LiDAR and IMU data and post processed to provide coordinates and elevations for the photo centers to supplement the ground control. GEOD will perform a LiDAR survey for the portion of the project area beyond the airport property and create a profile of the runways using Mobile LiDAR.

Garden State Parkway Bridge Deck Reconstruction MP 121-150 and MP 124-163

GEOD was contracted to provide the photogrammetric mapping for the NJ Turnpike Authority's Garden State Parkway Bridge Deck Reconstruction Project, MP 121-150 and MP 124-163. Services will include obtaining helicopter and fixed wing photography and providing Low Altitude Mapping and Photogrammetry (LAMP) of 12 different bridge structures within the project area. All mapping will be in accordance with NJTA Standards and Specifications.



Ardsley Service Area
NYS Thruway

“NY State Thruway Authority On-Call contract...three separate projects”



Rt. 287 & Waughan Road
Bridge

From the Field:

Photogrammetric Mapping for the Proposed Red Line, Baltimore, MD

GEOD was contracted to provide the photogrammetric mapping for the Maryland Department of Transportation's \$1.8 billion proposed 14.5-mile east-west transit line connecting areas from Woodlawn through the Johns Hopkins Bayview Medical Center Campus. GEOD will utilize its Low Altitude Photogrammetric Mapping (LAMP) program which alleviates the difficulties and safety issues associated with surveying along local congested city streets, roadways and highways and limits the impact of potential disruptions to commuters and the community. Services will include preparing flight maps, obtaining new aerial photography and digital mapping will be prepared at 1"=20' with 1' contours with a DTM.

NY DEP - Catskill Delaware Aqueduct, Wappinger Falls, NY

GEOD has contracted to provide topographic and right of way surveys of the property around portions of the Catskill Aqueduct in support of the New York City DEP's repair and rehabilitation

project. Services included recovering and extending control and field surveys and mapping to provide a topographic survey of the project area and 200' beyond the project limits. Existing improvements such as edge of pavement, sidewalks, spot elevations, ramps, surface evidence of utilities, hydrants, valves, utility poles, lighting and other visible appurtenant features were located. A topographic and boundary survey was prepared to establish the railroad right of way adjacent to the westerly boundary of the NYCDEP Shaft 6.

NYC Transit-On-Call

Under GEOD's On-Call contract with NYC Transit for Surveying and Mapping throughout the five boroughs, it has most recently undertaken five separate projects:

- (1) Boundary and Survey for Easement on Hunts Point, Bronx;**
- (2) and (3) Establishment of State Plane Controls at South 5th Street and 10th Street, Brooklyn;**
- (4) Establishment of a State Plane Control at the Ozone Park-Lefferts Boulevard Substation,**

Queens; and (5) Property Survey and As-Built Survey for the Charleston Bus Depot, Staten Island.

Subsurface Utility Markout and Mapping Services

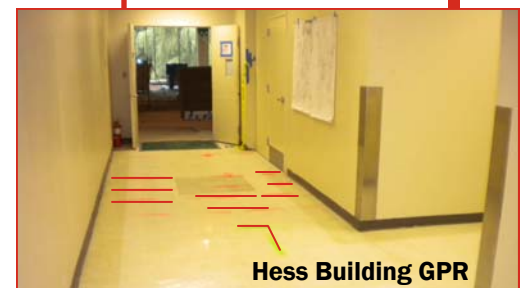
GEOD continues to increase its subsurface utility service market share by providing reliable markout and mapping services for engineering design and construction projects of all sizes. These services are provided through the use of a combination of ground penetrating radar and electro-magnetic pipe, cable and box locators. Most recent subsurface utility services include:

- A Consolidated Edison site in Bronx, NY;
- The Hess Building in Woodridge, NJ;
- The Continental Terminal at Newark Airport;
- A landfill in Ellenville, NY; and
- Along the Garden State Parkway for a widening project.



Baltimore Red Line

“GEOD continues to increase its subsurface utility service market share.....”



Hess Building GPR

GEOD's Puzzle: Some Things Never Change

Automobiles have been around for over 100 years now, and much



like the people who drive them, come in a variety of shapes and sizes.

I recently spotted a "Smart Car" parked in front of a "Hummer" and it got me thinking about the disparity not just in the sizes of the cars, but

about the parts that the cars themselves are assembled from, and the distances between those parts.

This led to me wonder if there is a distance in the design and manufacture of a car, from point A to point B, that is identical now to what it was 60 or even 70 years ago. Clearly it isn't the distance between the gas pedal to the brake pedal,



or the height of the headlamps above the fender. Yet there is one dimension that has been the same, from A to B, on every car that has been sold in this county since the 1950's and probably even earlier than that.

To enter the Fall 2011 puzzle competition, you need to answer: "What does that dimension represent?"

Answers should be submitted to: marketing@geodcorp.com not later than November 18,

2011. The winner will be chosen from a random drawing of all correct answers and notified by email on November 22, 2011 when the solution will also be posted on GEOD's website.



The lucky winner will receive a \$200.00 Best Buy Gift Certificate.

HAVE FUN!



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