

**GEOD Offers You:**

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

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**GEOD** CORPORATION

AERIAL PHOTOGRAMMETRY • LAND SURVEYING

**INNOVATOR**

**Spring Forward!**

*Spring in Nature:* The axis of the earth increases its tilt toward the sun and the length of daylight rapidly expands.

*Spring In Sports:* The season of baseball and golf begins.

*Spring in School:* Terms near an end signaling a time of summer vacation.

*At GEOD:* Project Managers “spring” into action to prepare for an active aerial photo-

graphic season. Mid-March to mid-April is the best time for flying your project. Winter snows are gone and the trees have just begun to bloom. To assure optimal coverage, schedule your project now.

GEOD provides you with even greater detail and accuracy by using Low Altitude Mapping and Photogrammetric (LAMP) services.



Also ask about GEOD's stock photography of the entire Hudson Valley, NY Region. 973-697-2122

**Laser Scanning Project Claims ASHE-Metro Excellence Award**

The MTA's No. 7 Subway Extension project will provide critical transit access and spur development in Manhattan's Hudson Yards area. The economic development resulting from the completion of this 1.5 mile extension will generate increased tax revenues as well as numerous new

construction and permanent jobs.

GEOD was contracted to check survey control established by the contractor to assure that the same was accurate and that the tunnel was progressing in accordance with the design alignment. Additionally, GEOD mapped

the tunnel ceiling and compared the as-built drawing of the ceiling to the design drawing to see if there was any over-cutting on the ceiling.

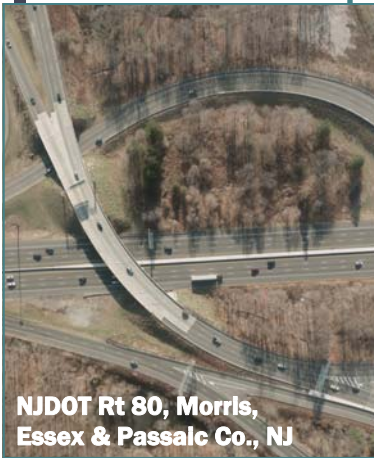


*GEOD's Task Analysis determined that the use of Laser Scanning Technology would best satisfy the project needs.*

GEOD proudly and successfully entered a display of its work on the MTA's No. 7 Subway Extension Project for NY Metro ASHE Award for Excellence 2010 competition consideration.

Visit “News” at [www.geodcorp.com](http://www.geodcorp.com) to see project display.

## From the Field:



**NJDOT Rt 80, Morris, Essex & Passaic Co., NJ**

“NYC Transit On-Call Survey & Mapping Projects include two Brooklyn sites”

### *NJ Garden State Parkway Interchanges 41 and 44*

GEOD was contracted to provide photogrammetric mapping to support the NJTA environmental engineering and final design of a new full interchange at Jimmy Leeds Road, proposed Garden State Parkway Interchange 41, and a new northbound exit ramp and southbound entrance ramp at Pomona Road, existing Garden State Parkway Interchange 44, both in Atlantic County, NJ. Services included: obtaining new aerial photography, establishing primary control and providing digitized topographic mapping of elevations, planimetric and land use features visible in the photography.

### *Photogrammetric Mapping for Route 284 in Orange County, NY*

*Using our existing stock photography of the area,* GEOD was contracted to provide topographic mapping of approximately 5.9 miles of Route 284 and Route 6 in Orange County, NY. Services included photogrammetric mapping at 1" = 30'. Break lines and spot elevations were digitized and combined with the ground level plan to create a DTM. All mapping was performed by skilled technicians under the direct supervision of certified photogrammetrists to meet or

exceed National Map Accuracy Standards.

### *NYC Transit Projects*

Under GEOD's On-Call contract for Survey and Mapping Services with New York City Transit, we were asked to establish State Plane Control at South 5th Street near the Williamsburg Bridge and the 10th Street Substation, both sites in Brooklyn, New York. Services included: establishing control points tied to existing NYCTA control. Deliverables included GPS Control Report and tie sketches of set points.

### *Survey & Base Mapping Along Route 80, MP 45.1 to MP 53.4, Morris, Essex & Passaic Counties, NJ*

GEOD was contracted to provide design survey and photogrammetric mapping on the NJDOT project for roadway mainline and ramp improvements along I-80 from MP 45.1 to MP 53.4 encompassing 20 miles in Morris, Essex and Passaic Counties. Services included obtaining new aerial photography, establishing primary and photo control, and preparing topographic mapping of the project area at a scale of 1" = 30' with 1' contours and a DTM. Supplemental surveys and clearances for bridge crossings will also be provided. All services performed were in accordance with the New Jersey DOT Standards and Procedures to meet or exceed

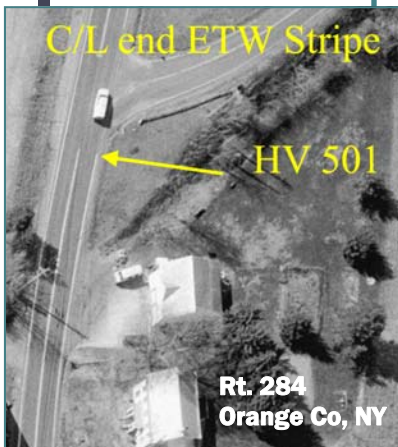
National Map Accuracy Standards.

### *Surveying & Mapping for Route 4, Englewood, NJ, Grand Avenue Deck Replacement*

GEOD was contracted to provide the aerial mapping and surveying to support the preliminary design for the NJDOT Route 4 over Grand Avenue deck replacement project in Bergen County, NJ. Services included establishing primary and photo control, providing base mapping in NJDOT Micro-Station & Inroads format, establishing the centerline geometry on Routes 4 and 93 (Grand Avenue), tax map overlay with right-of-way, block and lot lines, and supplemental surveys with bridge dimensions. All services performed were in accordance with the New Jersey DOT Standards and Procedures to meet or exceed National Map Accuracy Standards.

### *Route 22 at Chestnut Street, Union and North Broad, Hillside, NJ*

GEOD contracted to provide the survey support for the final design of Route 22 at Chestnut Street, Union as well as North Broad Street, Hillside, for the NJDOT project to reconstruct the bridge and add to the ramps. Services included recovering primary control, editing existing digital topographic



## From the Field:

mapping, establishing the right of way and setting the survey baseline. All surveying was completed in accordance with NJDOT standards and specifications to meet or exceed the National Map Accuracy Standards.

### *Digital Base Mapping for Interchange 57A and Along the NY State Thruway, Erie and Chautauqua Counties, NY*

Under GEOD's On-Call contract with the NYS Thruway Authority, we provided digital mapping for Interchange 57A and along the Thruway mainline between MP 444 to MP 446 and MP 451.5 to MP 455.2 containing the entire roadway plus 100 feet beyond the edge of pavement. GEOD completed the analytical aerotriangulation to extend the photo control for both the interchange and the mainline and prepared digital mapping at 1" = 40', including a DTM and 1' contours. All mapping was performed in compliance with NYSTA specifications to meet or exceed National Map Accuracy Standards.

### *Survey Services at the South Jersey Container Corporation Remedial Action Site*

GEOD was contracted to provide surveying support for the New Jersey Department of Environmental Protection under a Remedial Investigation and Remedial Action

Selection (RI/RAS) Term Contract for remedial investigations at the South Jersey Container Corporation property in Camden County, New Jersey. The site consists of approximately 12.13 acres of land being investigated because of historic spills/releases associated with a steel drum reconditioning facility that previously operated on the site. Services included: surveying approximately 224 monitoring well, test pit, soil sample, surface water and sediment and building/site locations, providing a 2-foot contour interval survey, installation of permanent benchmarks and delivery of site area map, site survey map and topographic map.

### *Route 4 Over the Hackensack River Mapping*

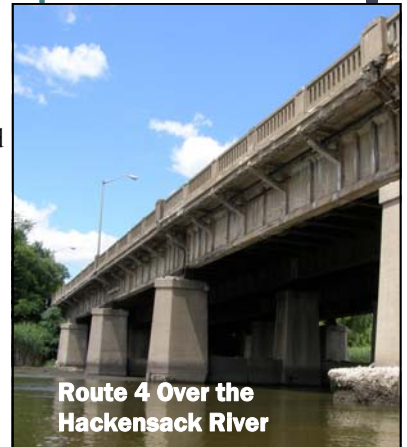
GEOD recently contracted to provide the surveying and mapping support services for the design of the bridge deck replacement of the NJ Route 4 Bridge over the Hackensack River. Services included establishing primary control and providing topographic base mapping for a corridor width of 400' extending approximately 2000' either side of the bridge, including channel cross sections taken in the river and to 10' in elevation above the natural bank. Supplemental surveys included identifying all features such as drainage structures, including size and type

of pipes, manholes, storm drains, fences and valves not visible in the photography. Bridge deck joints were located as were vertical underclearance and grate and invert elevations. All surveying and mapping was provided in accordance with NJDOT Standards and Specifications.

### *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 supplied through the use of a combination of ground penetrating radar and electromagnetic pipe, cable and box locators. Most recently subsurface utility services have been provided at the following sites:

- A mall parking lot in Franklin Park, NJ
- An existing building slab on Euclid Avenue, Newark, NJ
- The Brainard Lake Bridge and Dam in Cranbury, NJ
- A Sewer line area of N. Wood Avenue in Linden, NJ
- The Coney Island Rail Yard site of six proposed camera pole locations



**Route 4 Over the Hackensack River**

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



**Ground Penetrating Radar**

## **GEOD's Puzzle: Team Building Effort Continues**



The subject of our last puzzle joined Stan and Paul, Jr. in a corporate team-building effort by undertaking a 24 mile kayak paddle on the Hackensack River. Our Senior Project Managers, Gerry and Brian, were the next team to attempt the trek. Despite their healthy lifestyles, however, they were pretty tired at the end of the trip.

What better way to rejuvenate than to kick back and relax with an ice cold soda and some hot homemade popcorn.

In anticipation, Gerry had packed popcorn specifically

packaged to be cooked outside on an open fire; however, the directions were very specific - cook for nine minutes in total.

Unfortunately, neither of them brought a watch. Ever resourceful, however, Brian did find two egg timers in his camping kit: one rated for four minutes and the other for seven minutes.

Your job is to determine how our two intrepid adventurers can time the popcorn for nine minutes using only the four minute and seven minute egg timers.

Answers should be submitted to: [marketing@geodcorp.com](mailto:marketing@geodcorp.com) not later than April 15, 2011. The winner will be chosen from a random drawing of all correct answers and notified by email on April 20, 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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