



GEOD CORPORATION

Engineering • Photogrammetry • Surveying

INNOVATOR

Spring 2008



Birds Gotta Fly.....

as the old song goes.....

And so does GEOD!

As naturally as spring begins the transition from winter to summer in the Northeast, so does it ignite the GEOD staff with enthusiasm and readiness for the upcoming aerial photography season.

Mid-March through mid-April is absolutely the most perfect time for your aerial photographic projects – and it's never too early to schedule them!

As always, if need be, you can “fly now, map later” depending on your specific job and its budget!



...spring flight ...

Just outline your needs and let GEOD suggest possibilities.

If your project happens to be located in the Hudson Valley region, please be sure to ask GEOD about

special rates on its stock photography in that area. Call **GEOD at 973-697-2122** to discuss your aerial photogrammetric needs.

Schedule Early...
Fly & Map in Stages...
Special Stock Rates...

GEOD offers you :

- ◇ *Photogrammetric Mapping*
- ◇ *Land & Engineering Surveying*
- ◇ *Construction Surveys*
- ◇ *Site/Civil Engineering*
- ◇ *Transportation Engineering*
- ◇ *Storm Water Management*
- ◇ *Roadway Design*
- ◇ *GIS Base Mapping*
- ◇ *Subsurface Utility Mapping*

Laser Scanning Technology at GEOD

Projects involving building facades, quarries, bridges, subways, tunnels, piping as-builts, retaining walls or rock slope projects all present unique surveying challenges.

As a result, GEOD, continuing its tradition of

moving forward, is armed with state-of-the-art Leica ScanStation 2 scanning technology and explicitly trained professionals to provide clients with the most accurate and cost effective manner of successfully completing those unique project goals.

Recent laser scanning projects at GEOD have included: the NY City Hall Subway Station, the ConEd Vault Piping, the NYC Transit Church Avenue Station Tunnel, the World Trade Center Slurry Wall and the Rock Slope Projects along the NYS Thruway.

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Nantucket, MA



Hummock Pond Road Bike Path

As **GEOD Consulting** nears completion of the Bartlett Road Bike Path, and progresses on Nobadeer Farm Road Bike Path, it has been selected for the longest Bike Path Project ever envisioned in Nantucket, the 3.5 mile Hummock Pond Road Bike Path. This Bike Path will take tourists and islanders alike from the outskirts of Town Center to one of the most scenic beaches on the island, Cisco Beach.

Harvard Law School



Northwest Corner Project, Cambridge, MA

GEOD Consulting has been selected to provide construction survey services for the intricately devised plan for this project which will comprise approximately 250,000 square feet to house new academic, student and clinical centers. Included are all aspects of the slurry wall (extensive underground parking lot), surface features and all three creatively designed buildings. Project completion is anticipated for the summer of 2011.

GEOD Affiliate, Greater Hudson Valley is assisting The Baker Companies in a site plan application for 262 townhomes and some commercial use in Ramapo, NY. The project is located along Route 17 with the Ramapo River in close proximity.

Ramapo Hills, NY



Development Plan for 262 Townhouses

Issues of rock, steep slopes, timber rattlesnakes, road flooding and the location of a Revolutionary War Cemetery on the site were of concern.

Absent any FEMA published flood elevations for this stretch of the river, **GHV** used the US Army Corps of Engineers computer model HEC-RAS to produce a flood map for the area, determining that the highway was simply built too low. The project was then designed to be out of the 100 year floodplain, with emergency accesses at the north and south ends, allowing residents and emergency services improved access.

GHV used ground penetrating radar to locate underground gravesites enabling the preservation of the historic cemetery.

Landmark Corporate Park

GHV, in conjunction with Long Clove Business Park Corporation, is designing a premier corporate park in a manufacturing zone, with eight mixed use buildings on six separate lots to accommodate the relocation of 19 businesses from Long Island to Clarkstown, NY. Design challenges include a stream and wetlands, adjacent properties which include water supply wells, a water supply reservoir, a quarry and the buffering of single family homes.

OTHER NOTABLE PROJECTS:

GEOD Consulting is engaged in numerous intersection design projects in MA, including signaling projects in Oxford and Westminster.

Greater Hudson Valley recently completed a bathymetric survey for the Town of Clarkstown for five ponds located in the hamlets of Congers and Valley Cottage, NY. The survey included all channels and pipes with top and bottom elevations and locations.

Layout is providing all aspects of the construction surveying services in support of the NYC Transit's 110,000 sq. ft. multi-storied facility Charles-ton Annex Bus Facility in Staten Island. rot13

AWARDS & ACHIEVEMENTS:

GEOD Corporation proudly welcomes the addition of **Ray Feldman, PLS** to its staff of Project Managers. Ray brings 23 years of surveying experience managing projects involving construction layout surveys, property surveys, topographic surveys and as-built surveys.

Chris Emilius, PE of GEOD Consulting was recently honored by NAIOP with a special public service award for his work on the Mass Highway Permit Regulations.

WIN A \$200.00 BEST BUY GIFT CERTIFICATE BY CORRECTLY ANSWERING GEOD'S SPRING PUZZLE!

Visit **GEOD's** Group Webpage at www.thegeodgroup.com for details.

NJDOT



Essex Street Bridge over Route 17, Lodi, Maywood & Rochelle Park, NJ

Layout has contracted to provide construction layout surveying services, including all utility mark-outs, necessary for the NJDOT project for the reconstruction of the Essex Street Bridge over Route 17 in Lodi, Maywood and Rochelle Park.

NYCEDC



Former High Line Rail Conversion to Pedestrian Park

Layout contracted to provide construction layout services in support of the NYCEDC's conversion of the High Line, a former elevated railway, into a pedestrian park along the west side of Manhattan. Services included establishing horizontal and vertical control, setting of approximately 2,000 points in the field and revision of existing AutoCAD files.

NYC HIGH-RISES

Layout continues providing calculations, review of CADD files and construction surveys for an ever growing number of high-rise complexes throughout Manhattan.

NY State Thruway

Under its On-Call contract for Aerial Photography and Mapping Services Statewide with the NYS Thruway Authority, **GEOD** provided low altitude mapping and photography (LAMP) of the Plattekill and Modena Service areas and the main line roadway between Interchanges 17 and 18 for the Thruway project MP 60.1 to MP 76.1. Services included setting of targets, establishing horizontal and vertical control and digitizing elevations creating an accurate DTM of the main roadway and ramps.

NYSDOT Region 11

Under its On-Call contract with the NYSDOT, Region 11, **GEOD** provided a primary and photo control survey for the project at Route 9A, Battery Place to 61st St., NYC.

Atlantic City Expressway



GEOD is providing low altitude photogrammetry and supplemental field edit surveys to support the design of this widening project. Primary and photo control, digital orthos and photogrammetric mapping will be provided. Mapping extends approximately 200' either side of the road centerline. The color ortho photo extends 500' either side of the road centerline. Supplemental survey services include: location of stream cross-sections, drainage and utility surveys, bridge structure surveys and stakeout of boring surveys within the existing ROW and median.

PROJECT SPOTLIGHT:

NJTA Widening Project is Supported at GEOD



The New Jersey Turnpike Authority's project to relieve congestion from Interchange 9 south to Interchange 6 – nearly 34 miles – includes initial tasks of preliminary design and environmental impacts. **GEOD** was honored to provide the necessary new aerial mapping establishing control (completed in such a way that it would also be used in the final design) and to determine the existing roadway centerline.

This major project was broken into eight design sections to expedite the final design and ultimately the construction. This multi-billion dollar project is a tremendous undertaking for the NJTA and **GEOD Corporation** is extremely proud to be participating in each task from the preliminary engineering through ROW acquisition to the final design.

Specific tasks completed for the preliminary design included primary control, photo control, mapping and digital ortho photography covering the entire impacted area.

To date, **GEOD's** services have included staking and locating over 2000 soil borings, establishing the turnpike centerline geometry, preparing parcel maps for property acquisition, bridge surveys, locating all drainage structures and new low altitude high accuracy mapping.



GEOD Corporation and

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**PROVIDING ENGINEERING, SURVEYING & PHOTOGRAMMETRY
SERVICES SINCE 1961**

Subsurface Utility Mapping Projects

GEOD Group members have recently experienced an escalating demand for their subsurface utility mark-out services.

Assignments have generally included performance of subsurface utility mapping utilizing ground penetrating radar and electro magnetic location technology (M-Scoping) services. The focus of each investigation is to identify the possible existence and location of buried trolley tracks, underground utilities, underground storage tanks and any other subsurface anomalies that may affect various structure and infrastructure projects.

Prominent among many of Layout's current such projects is the

providing of ground penetrating radar services for the Con Edison Pelham Parkway Project. The property is a 21 acre potentially hazardous waste environmental site along the northly side of the Boston Post Road.

Greater Hudson Valley provided ground penetrating radar as part of its services on the Ramapo Hills Project to locate gravesites thereby



...ground penetrating radar...

aiding the preservation of a Revolutionary War Cemetery.

Not to be overshadowed by its younger sisters, GEOD Corporation is emerging as a major player in the subsurface utility services market. Under its on-call contract with the NYC DDC for subsurface utility mapping throughout the five boroughs, GEOD is currently under assignments involving:

- Reconstruction of Kingston Avenue, Brooklyn,
- the FDNY Communications office, also in Brooklyn, and
- the 86th Causeway, Central Park Police Precinct.