

41431

DATE: July 21, 2014

TO: Board of Acquisition and Contract

FROM: John B. McCaffrey, Chief Information Officer

RE: AUTHORIZATION TO ENTER INTO AN AGREEMENT (IT-1346) WITH BERGMANN ASSOCIATES FOR THE DEVELOPMENT OF 3D SPATIAL MODELS AND TRAINING AND IMPLEMENTATION SERVICES ASSOCIATED WITH ESRI CITYENGINE SOFTWARE FOR A SIXTEEN-MONTH PERIOD COMMENCING SEPTEMBER 1, 2014 AND TERMINATING DECEMBER 31, 2015 FOR A TOTAL NOT TO EXCEED AMOUNT OF \$64,804

BACKGROUND:

- Through the regular acquisition of aerial photography, the County of Westchester has documented its physical landscape, history and changing land use patterns. Beginning in 1925, and continuing throughout the twentieth century, a Planning Department program has produced thousands of black and white prints.
- In 2000, Westchester County's Department of Information Technology (DoIT) undertook an important transition aerial photography acquisition involving the development of the first high-accuracy digital photogrammetric 'base map' of the County. The project produced high resolution orthophotography and included the mapping of visible features such as building footprints, street centerlines, hydrology (streams, rivers, and lakes), edge of pavement, bridges, towers, and stone walls. The data was integrated into Westchester's Geographic Information Systems (GIS) programs, and distributed to each municipality in the County to support local tax mapping, public works, public safety, and many other municipal programs.
- In 2004, Westchester County partnered with New York State for the acquisition of new aerial imagery, providing considerable cost savings to the County. Existing planimetric features (building footprints, hydrology, edge of pavement, street centerlines, etc.) were completely updated, and new street features were captured countywide, including road barriers, stone walls, fire hydrants, catch basins and manholes. Data from this project has been integrated in all county and local government mapping applications, supporting programs in the area of public safety, planning, emergency response, facilities management, public works and engineering, and land records.
- Imagery has been subsequently updated through cooperative efforts with New York State, both in 2007 and 2009. The updated aerial photography is critical to County departments including Emergency Services, Public Safety, Health, Planning, Public Works and Transportation, and Environmental Facilities. It is used by these departments on a daily basis for infrastructure, health, property, and land use management programs in all forty-five (45) Westchester municipalities, as well as by the public.

- The County's planimetric data has not been updated since the 2004 effort. In the intervening years, the County's structures, roadways and infrastructure have undergone significant changes, increasingly compromising the utility of these important datasets. In addition to their proven value to the agencies listed above for daily operations, the updated planimetrics will prove critical in new and numerous ways, including for local re-zoning efforts; review and revision of shoreline development regulations; and in the preparation (and response) to natural disasters such as Hurricanes Irene and Sandy.
- On October 15th, 2012, a Request for Proposals (RFP) was issued for acquisition of new Spring 2013 imagery, production of new orthophotos, and updating of existing planimetric datasets. Eight (8) substantive responses were received from technically qualified firms which were independently reviewed and evaluated by seven persons having experience and familiarity with the services, processes and products sought. A review committee selected four (4) firms to make in-person presentations, and prepared additional questions for each firm based on their proposals. Presentations were made December 18th, 2012, and references were checked for the team's top-rated firm, IIC, on equivalent projects they had completed in the recent past.
- Delivery and acceptance of all base map datasets (orthophotography and planimetrics) from IIC by Westchester County GIS staff was finalized Spring 2014. In all, a total of 473 MB of planimetric data and 178 GB of orthophotography was developed as part of the project. Project datasets have already been integrated into several enterprise applications and being made available to local governments. The 2014 basemap is the most spatially accurate and comprehensive inventory of planimetric (physical) features ever developed.
- An additional optional quote associated with the 2012 RFP was for the development of 3D Models based on the countywide basemap update. Over the past several years, 3D models have become increasingly important in economic development programs and urban planning projects. While quotes were obtained for this option, the County did not exercise this option due to reservations on quotes submitted as well as waiting for the initial industry testing and use of ESRI's newly released CityEngine 3D Software.
- On May 19th, 2014 Westchester County issued and published on the County's website a "Request for Quotes (RFQ) for ESRI CityEngine Software Training, Implementation, Support Services and Related Data Development Work" with written responses due June 19th, 2014. A total of four (4) quotes were received.
- Therefore, we now come before your Honorable Board requesting authorization to enter into an agreement with Bergmann Associates for the development of four (4) downtown 3D Spatial Models as well as CityEngine software training and implementation services for a sixteen-month period commencing September 1, 2014 for a total not to exceed amount of \$64,804. The public purposes of the requested services are to build 3D models from countywide datasets recently created and delivered associated with the basemap update. The publication and dissemination of 3D Models can help further the work of the County's economic development work and similar outreach to local governments. The models can also be used for downtown planning studies and even in support of public safety event

ACTION REQUESTED:

- Authorization to enter into an agreement (IT-1346) with Bergmann Associates., located at 40 LaRiviere Dr., Buffalo, NY 14202 for the development of four (4) downtown 3D Spatial Models as well as CityEngine software training and implementation services for a sixteen-month period commencing September 1, 2014 and terminating December 31, 2015, for a total not to exceed contract amount of \$64,804, payable according to an agreed schedule, subject to county appropriations.

A resolution is submitted herewith for your consideration.

RESOLUTION

UPON A COMMUNICATION FROM THE, CHIEF INFORMATION OFFICER, DEPARTMENT OF INFORMATION TECHNOLOGY, BE IT HEREBY

RESOLVED: that the County of Westchester is hereby authorized to enter into an agreement (IT-1346) with Bergmann Associates located at 40 LaRiviere Dr., Buffalo, NY 14202 for the development of four (4) downtown 3D Spatial Models as well as CityEngine software training and implementation services for a sixteen-month period commencing September 1, 2014 and terminating December 31, 2015, for a total not to exceed contract amount of \$64,804, payable according to an agreed schedule, and be it further

RESOLVED, this Agreement is subject to County appropriations; and be it further

RESOLVED, this Agreement is also subject to further financial analysis of the impact of any New York State Budget (the "State Budget") proposed and adopted during the term of this Agreement. The County shall retain the right, upon the occurrence of any release by the Governor of a proposed State Budget and/or the adoption of a State Budget or any amendments thereto, and for a reasonable period of time after such release(s) or adoption(s), to conduct an analysis of the impacts of any such State Budget on County finances. After such analysis, the county shall retain the right to either terminate this Agreement or to renegotiate the amounts and rates approved herein. If the County subsequently offers to pay a reduced amount to the Contractor, then the Contractor shall have the right to terminate this Agreement upon reasonable prior written notice; and be it further

RESOLVED, that the County Executive or his duly authorized designee is hereby authorized to execute and deliver any and all documents and to take all action necessary and appropriate to effectuate the purposes hereof.

RESOLUTION

Agreement: **IT-1346**

Account to be Charged/Credited:

Year	Fund	Dept	Major Program, Program & Phase Or Unit	Object/ Sub-Object	Trust Account	Dollars
2014	316	16	BIT26-00-S	6190		\$16,201
2015	316	16	BIT26-00-S	6190		\$48,603

Budget Funding Year(s): 2014 – 2015 Start Date: September 1, 2014 End Date: December 31, 2015

Funding Source Tax Dollars: \$64,804
 State Aid
 Federal Aid
(must match resolution) Other:

APPROVED BOARD OF ACQUISITION & CONTRACTS - 02/12/2014 - JOMARY VIEIRA, SECRETARY

ALPHBETICAL LIST OF RESPONSIVE RESPONDENTS

SERVICE: REQUEST FOR QUOTES (RFQ) FOR ESRI CITYENGINE SOFTWARE TRAINING, IMPLEMENTATION, SUPPORT SERVICES AND RELATED DATA DEVELOPMENT WORK

RESPONDENT LIST

1. Bergmann Associates
2. ESRI
3. IIC Technologies, Inc.
4. InfoInnovation

APPROVED BOARD OF ACQUISITION & CONTRACT - 08/21/2014 - JOMARY VIEIRA, SECRETARY