



William H. Gordon Associates, Inc.
301 North Mildred Street, Suite 1
Charles Town, WV 25414
304-725-8456 phone
304-728-0117 fax

October 21, 2008

Mr. Chuck Bowman
West Virginia Department of Administration
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

RECEIVED

2008 OCT 20 A 10: 03

PROCUREMENT DIVISION
STATE OF WV

Re: RFP# DEP14385: Mapping Services for Northern Counties

Dear Mr. Bowman:

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) is pleased to provide you with the enclosed qualifications and fees to provide professional mapping services for northern counties. For over three decades our professionals have provided survey services to a wide variety of public and private sector clients, including work on hundreds of task orders from term contracts.

We are fully committed to allocate the resources necessary to meet the needs of the State of West Virginia:

- With offices regionally located, WHGA will provide **prompt and proactive service** as evident by previous client satisfaction. Also, with WHGA's 10 survey crews our team will be able to provide **ample man-hours** to complete all tasks in a **timely and efficient manner**.
- The WHGA team has prior experience performing surveying services at an **abandoned acid mine site** under an on-call contract. These services were part of an environmental reclamation effort.
- Our team provides a **full team solution** offering comprehensive surveying services utilizing a wide range of state-of-the-art technologies, including **3D Laser Scanning**, to provide progressive, cost effective, and safe solutions.
- WHGA will provide the State of West Virginia with a team that has **extensive surveying experience throughout the Northeastern region of West Virginia**.

WHGA only delivers the highest quality service, as recognized by our former and current clients. The WHGA team will be the State's advocate, partner, and consultant, providing our utmost attention to each and every task under this contract.

Please feel free to contact me at 703.263.1900, or Roger Harris (proposed Project Manager) at 304.725.8456 should you have any questions or require additional information.

Thank you very much for your consideration.

Sincerely,

WILLIAM H. GORDON ASSOCIATES, INC.

Eugene C. Dorn, LS
Principal & Director of Survey

William H. Gordon Associates, Inc.

Corporate Overview

William H. Gordon Associates, Inc. (WHGA) is recognized as a leading provider of professional consulting services to public and private sector clients in the Northeastern Panhandle of West Virginia and the Metropolitan Washington, DC region. Founded in Northern Virginia in 1976, WHGA has assembled over 100 professionals and support staff, including surveyors, civil engineers, land planners, landscape architects, hydrologists, and security consultants located within a regional network of five (5) offices. WHGA provides comprehensive, single-source services for the development and stewardship of land and/or facilities to address the needs of government and business.



Corporate Profile

- ◆ Multi-disciplined Professional Staff
- ◆ Comprehensive Services
- ◆ DC 'Top 20' Engineering Firm
- ◆ GSA Schedule/Urban Planning

Office Locations

- ◆ Charles Town, West Virginia
- ◆ Loudoun, Virginia
- ◆ Chantilly, Virginia
- ◆ Winchester, Virginia
- ◆ Prince William County, Virginia

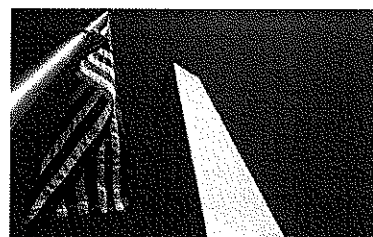
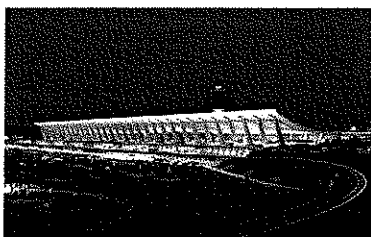
Services Offered

- ◆ Surveying
- ◆ Civil Engineering
- ◆ Landscape Architecture
- ◆ Land Planning
- ◆ Site Security Consulting

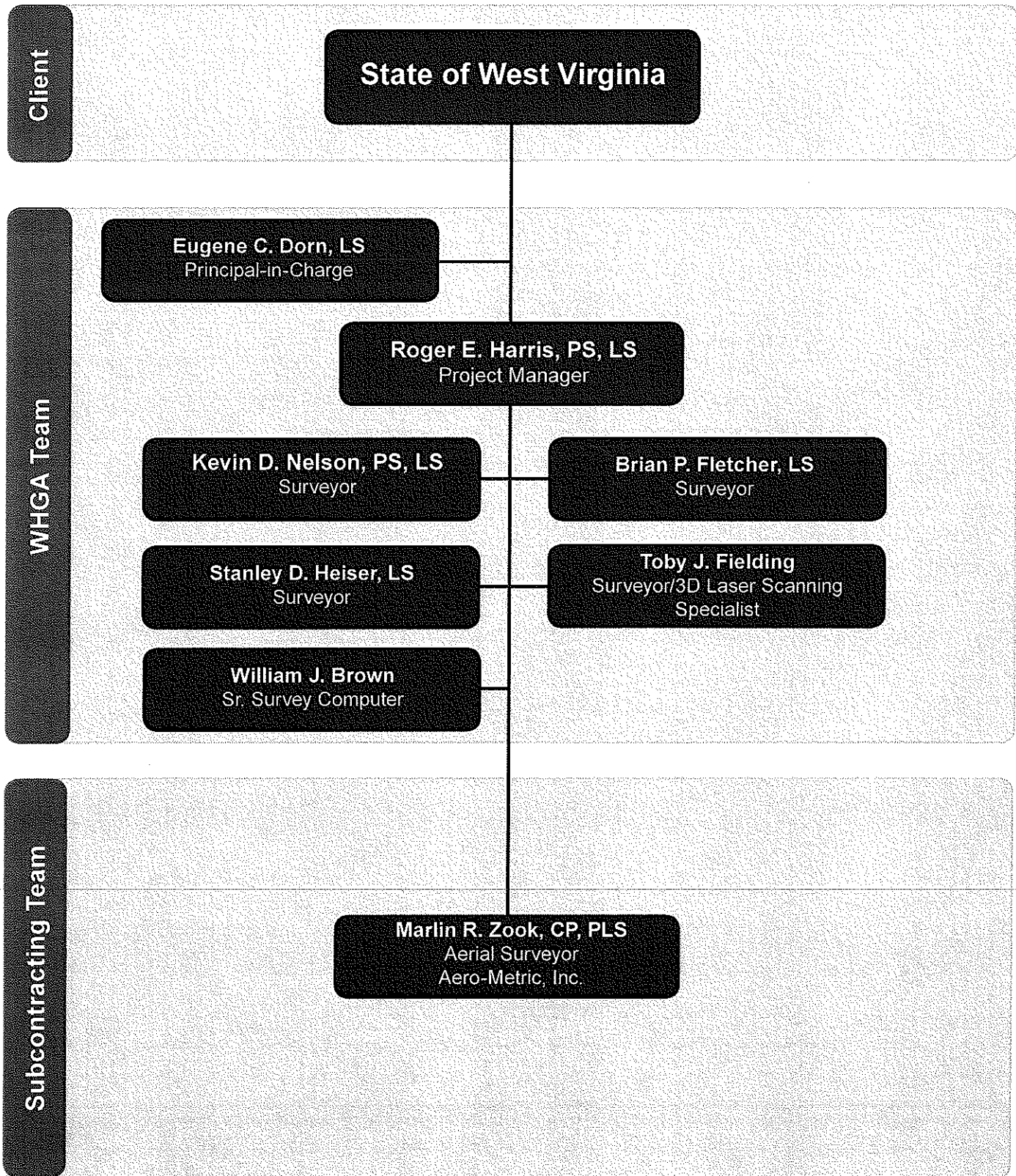
WHGA's Mission

William H. Gordon Associates' mission is to provide value-added professional consulting services associated with the development and stewardship of land and/or facilities.

WHGA has provided similar surveying services to those listed in the solicitation for over 20 years.



Our Proposed Team has the Resources, Expertise, and Experience to Provide the State of West Virginia with Professional Land and Aerial Surveying Services Necessary to Achieve its Goals.



Mr. Dorn, LS, has an extensive tenure with William H. Gordon Associates, Inc. where he started the land surveying department in 1983. His experience includes: preparation of field run topographic surveys; horizontal and vertical control for aerial topographic mapping along with performing utility as-builts and map testing to meet National Map Accuracy Standards; boundary and ALTA/ACSM Land Title Surveys; construction stakeout; land record research; preparation of legal descriptions and survey plat preparation.

Mr. Dorn's relevant experience includes:

WVDOT Statewide Survey (On-Call) Agreement – Charleston, WV

WHGA was awarded this on-call survey contract in 2006 and remains ready to serve WVDOT for all of its survey needs in the future.

HOTD - Washington Monument – Washington, DC

Surveying and engineering services for the Washington Monument were provided by WHGA under a task order contract for a variety of federal sites, including topographic surveying, utility designating, and steam service line relocation and replacement. Special attention was given to this site, as certain aspects of this project interfered with the decorative architectural environment surrounding the monument. The new line implemented was constructed to minimize the impact of the pedestrian areas of the site. Approximately seven miles of tunnels and five miles of direct buried piping are included in the HOTD's steam line system.

Baltimore Corps of Engineers - Baltimore, MD

WHGA provided surveying services under an indefinite quantity contract with the U.S. Army Corps of Engineers (USACE), Baltimore District that included: utility, cadastral, boundary, topographic, GPS control, hydrographic surveys, subsurface utility designating/locating, preparation of easement plats, and land records research for projects sites within the Baltimore District. These surveying services supported a variety of Corps projects within the Baltimore District, including utility design, environmental reclamation, park development, and flood control projects.

MWAA Task Order Contract - Washington, DC

WHGA has provided surveying and civil engineering services at both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA has an active presence at DCA and IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA as part of its six year, \$3.4 billion, "d2" (Dulles Development) initiative.

National Zoo/Site Utilities - Washington, DC

WHGA has worked as a subconsultant to the National Zoo for many years providing surveying and civil/site engineering services for various infrastructure improvements at the National Zoological Park - most notably, the recently opened Asia Trail. Other recent survey and engineering work at the Zoo includes the Kids Farm, the Mane Restaurant, the Picnic Pavilion, and preliminary engineering for the future expansion of the Elephant House and yards. WHGA also helped develop a GIS for all park utilities.

NAVFAC - Chesapeake, VA

WHGA provided surveying and engineering services under a Design/Build Indefinite Quantity Contract with the United States Department of the Navy, Naval Facilities Engineering Command (NAVFAC). The contract included utility designation, topographic and as-built surveys, construction, grading, pavement, and storm sewer stakeouts on various project sites.

Firm Affiliation
William H. Gordon Associates, Inc.

Proposed Role
Principal-in-Charge

Years of Experience
33

Registration & Certifications
1982 / Land Surveyor / Virginia / 1445
1984 / Property Line Surveyor / Maryland / 296

1992 / Licensed Land Surveyor / New York / 049975

Education:
1976 B.S. Land Surveying, Purdue University

1972 A.A.S. Land Surveying, State University of New York at Alfred

Mr. Harris has extensive experience in coordinating a variety of survey projects, including boundary and topographic surveys by photographic, plane table, transit tape, and cross-sectional methods. In addition, he has experience in construction stakeout of streets, utilities, buildings (residential and commercial), as-builts surveys, and surveys for right-of-way acquisitions. As the Field Coordinator for the Leesburg office, he is proficient in the use of survey computers in support of field crews and in the application of HASP, AutoCAD, Softdesk, and Autodesk Land desktop software.

Mr. Harris's relevant experience includes:

WVDOT Statewide Survey (On-Call) Agreement – Charleston, WV

WHGA was awarded this on-call survey contract in 2006 and remains ready to serve WVDOT for all of its survey needs in the future.

Langlet Property Aerial Topographic Survey - Charles Town, WV

WHGA performed surveying services for the subject property located on approximately 246-acres in Charles Town, West Virginia. WHGA provided the client with aerial topography surveys for six (6) parcels of land. WHGA performed surveying services for the subject parcels listed above. The boundary survey included the identification of a new Route 9 right-of-way.

Barleywood - Jefferson County, WV

WHGA was instrumental in the identification and protection of a Washington family home at the Preserve at Barleywood. The structure identified as an "old house" by the seller was immediately identified as something special by the design team. Through WHGA's efforts, a superior subdivision was created, including all tasks from early conceptual design to final plat. The subdivision was designed with four goals: (1) preservation of Barleywood on a parcel that would protect its historic nature; (2) conservation of 300 acres of agricultural land; (3) placement of the proposed residential lots on the property while respecting landform and vegetation; (4) improvement/realignment of a existing state road.

Bakerton Fire House-Site Plan - Jefferson County, WV

WHGA provided civil engineering, survey, and planning services for the subject property located on approximately two acres in Harpers Ferry, District of Jefferson County, West Virginia.

The Springs at Timber Ridge - Morgan County, WV

WHGA performed professional planning, engineering and surveying services for the subject property located on approximately 142 acres in Morgan County, West Virginia.

Ziegler, Stolipher and Roper Properties - Jefferson County, WV

WHGA provided surveying, planning and engineering services for the subject property located on approximately 611 acres in Jefferson County, West Virginia. WHGA facilitated the annexation of the subject parcels into the City of Charles Town and identified the infrastructure components and solutions to develop the properties to the desired use and density.

Hilltop Preliminary Engineering - Jefferson County, WV

WHGA performed professional engineering and surveying services for the subject property located on approximately 9.7 acres in Jefferson County, West Virginia.

Chapel View - Berkeley/Jefferson Counties, WV

WHGA provided engineering and surveying services for a 57-acre residential property located in both Berkeley County and Jefferson County, West Virginia. WHGA was responsible for lying 1,269-LF of 12" water main, 6,876-LF of 8" water main, local coordination of permits, development review, planning committee participation, Department of Health regulations, and Environmental regulations to include water, ground water and sewer.

Firm Affiliation

**William H. Gordon
Associates, Inc.**

Proposed Role

Project Manager

Years of Experience

24

**Registration &
Certifications**

2003 / Land Surveyor /
Virginia / 002631

2005 / Professional Surveyor
West Virginia / 2118

Mr. Nelson, LS, has extensive surveying experience with federal, state and local authorities in providing complicated and unique surveys through out the Mid-Atlantic Region. His experience includes high accuracy monitoring surveys for tunneling projects, GPS control surveys, topographic and boundary surveys; transportation surveys, utility right-of-way surveys; utility as-builts; construction stakeout of residential, commercial, and industrial buildings; recreational facilities; streets; and utilities.

Mr. Nelson's relevant experience includes:

WVDOT Statewide Survey (On-Call) Agreement – Charleston, WV

WHGA was awarded this on-call survey contract in 2006 and remains ready to serve WVDOT for all of its survey needs in the future.

Baltimore Corps of Engineers - Baltimore, MD

WHGA provided surveying services under an indefinite quantity contract with the U.S. Army Corps of Engineers (USACE), Baltimore District that included: utility, cadastral, boundary, topographic, GPS control, hydrographic surveys, subsurface utility designating/locating, preparation of easement plats, and land records research for projects sites within the Baltimore District. These surveying services supported a variety of Corps projects within the Baltimore District, including utility design, environmental reclamation, park development, and flood control projects.

Barleywood - Jefferson County, WV

WHGA was instrumental in the identification and protection of a Washington family home at the Preserve at Barleywood. The structure identified as an "old house" by the seller was immediately identified as something special by the design team. Through WHGA's efforts, a superior subdivision was created, including all tasks from early conceptual design to final plat. The subdivision was designed with four goals: (1) preservation of Barleywood on a parcel that would protect its historic nature; (2) conservation of 300 acres of agricultural land; (3) placement of the proposed residential lots on the property while respecting landform and vegetation; (4) improvement/realignment of a existing state road.

MWAA Task Order Contract - Washington, DC

WHGA has provided surveying and civil engineering services at both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA has an active presence at DCA and IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA as part of its six year, \$3.4 billion, "d2" (Dulles Development) initiative.

Land Planning and Surveying Services - Jefferson County, WV

WHGA provided engineering and surveying services for the subject property located on approximately 975-acres. This property is also located within Jefferson County, along West Virginia Secondary Route 13, Summit Point, West Virginia.

Ziegler, Stolipher, and Roper Properties - Jefferson County, WV

WHGA provided surveying, planning and engineering services for the subject property located on approximately 611 acres in Jefferson County, West Virginia. WHGA facilitated the annexation of the subject parcels into the City of Charles Town and identified the infrastructure components and solutions to develop the properties to the desired use and density.

Norborne Glebe - City of Charles Town, WV

WHGA provided full land planning, engineering, and surveying services for Phases 2-5 of the Norborne Glebe subdivision, which consists of 250 single-family lots and associated sidewalks, roadways, and a trail system. WHGA provided extensive landscaping and planning services to make Norborne Glebe a unique and desirable community. WHGA has also completed preliminary engineering for Phases 6-10 of the development, which will include commercial development, high density residential, townhomes, and single-family development.

Firm Affiliation
William H. Gordon
Associates, Inc.

Proposed Role
Surveyor

Years of Experience
27

Registration & Certifications
2000 / Land Surveyor /
Virginia / 2419

2003 / Professional Surveyor
West Virginia / 2084

Education:
1992 Virginia Department of
Labor and Industry
Apprenticeship Pro , Northern
Virginia Community College

1999 Certificate in GIS
Program , Northern Virginia
Community College

2000 Microstation/CAiCe
Training , OutSource Inc.

1983 Suburban Development
Northern Virginia Community
College

Mr. Fletcher has extensive experience in survey computing including field and office experience. In addition, he recently completed 24 hours of specialized training provided by OutSource Inc. involving field to finish procedures using MicroStation and CAI Ce software directed towards meeting VDOT requirements. His skilled experience provides him with a solid background in survey and survey computing.

Mr. Fletcher's relevant experience includes:

Baltimore Corps of Engineers - Baltimore, MD

WHGA provided surveying services under an indefinite quantity contract with the U.S. Army Corps of Engineers (USACE), Baltimore District that included: utility, cadastral, boundary, topographic, GPS control, hydrographic surveys, subsurface utility designating/locating, preparation of easement plats, and land records research for projects sites within the Baltimore District. These surveying services supported a variety of Corps projects within the Baltimore District, including utility design, environmental reclamation, park development, and flood control projects.

Lake Accotink Dredge - Fairfax County, VA

WHGA performed topographic surveying services in support of environmental services to conduct a dredge study, associated sedimentation study, and sediment management program for Lake Accotink. The site could not be surveyed with traditional survey methods due to the quick sand-like soil that covered the area. Therefore, WHGA utilized a 3D Laser Scanner to obtain the needed data for the client.

Lorton Landfill - Lorton, VA

WHGA was responsible for the site design and coordination of the environmental permitting for this 9.5-acre site located in southeastern Fairfax County. The facility is designed as a transfer and separating station to handle roll-off containers, metal recycling, cardboard, and "white goods". The site plan includes provisions for a 10,000 SF maintenance building, a septic drainfield system, significant buffers on the perimeter, underground stormwater management, and underground Best Management Practices (BMP).

MWAA Task Order Contract - Washington, DC

WHGA has provided surveying and civil engineering services at both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA has an active presence at DCA and IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA as part of its six year, \$3.4 billion, "d2" (Dulles Development) initiative.

National Zoo/Site Utilities - Washington, DC

WHGA has worked as a subconsultant to the National Zoo for many years providing surveying and civil/site engineering services for various infrastructure improvements at the National Zoological Park - most notably, the recently opened Asia Trail. Other recent survey and engineering work at the Zoo includes the Kids Farm, the Mane Restaurant, the Picnic Pavilion, and preliminary engineering for the future expansion of the Elephant House and yards. WHGA also helped develop a GIS for all park utilities.

IRS Computing Center, Martinsburg, WV - Martinsburg, WV

WHGA provided all civil engineering, surveying and landscape architecture services for this 25-acre mixed-use development. The project includes a 72,000 square foot office building and a 20,000 mechanical substation. WHGA also supervised the subsurface investigation during foundation design and oversaw quality control services during foundation installation of the office building to be located in an area well known for sinkhole development.

Firm Affiliation
William H. Gordon
Associates, Inc.

Proposed Role
Director of Survey

Years of Experience
24

Registration & Certifications
2004 / Land Surveyor /
Virginia / 2712

2005 / Land Surveyor /
Washington DC / 901559

Education:
1983 A.A.S. Surveying
Technology, Paul Smith
College

As the director of the survey department of WHGA's Leesburg office, Mr. Heiser, LS, provides surveying services for route surveys, boundary surveys, utility and topographic surveys, hydrographic surveys, ALTA/ACSM surveys, and construction stakeouts. He is adept at establishing horizontal and vertical control for aerial surveys, and preparing field fill-in topography and utility as-built augmentation for aerial mapping. He has worked on a number of on-call type surveying services, particularly for the Metropolitan Washington Airports Authority and for the Corps of Engineers, Baltimore District.

Mr. Heiser's relevant experience includes:

WVDOT Statewide Survey (On-Call) Agreement – Charleston, WV

WHGA was awarded this on-call survey contract in 2006 and remains ready to serve WVDOT for all of its survey needs in the future.

Ziegler, Stolipher, and Roper Properties - Jefferson County, WV

WHGA provided surveying, planning and engineering services for the subject property located on approximately 611 acres in Jefferson County, West Virginia. WHGA facilitated the annexation of the subject parcels into the City of Charles Town and identified the infrastructure components and solutions to develop the properties to the desired use and density.

Town of Purcellville On-Call Contract - Town of Purcellville, VA

WHGA provided survey, GIS, and Water Resource Engineering services to support the drainage study set forth by the Town of Purcellville. Services were performed to meet the Town's goals of a sustainable and environmentally sensitive approach to identify and remediate drainage issues within the specified study area.

Langlet Property - Jefferson County, WV

WHGA performed an ALTA/ACSM Land Title Survey for six (6) parcels of land on approximately 246 acres in Jefferson County, West Virginia. WHGA performed surveying services for the subject parcels listed above. The boundary survey included the identification of a new Rt.9 right-of-way.

The Vineyards-Construction S/O Services - Berkeley County, WV

WHGA performed surveying services for the subject property located on approximately 39 acres in Berkeley County, West Virginia.

PMW Farms/Festival Lakes Rezoning - Loudoun County, VA

WHGA provided engineering and planning services for the subject 105-acres of PMW Farms and the adjoining 6-acre Central Loudoun Little League parcel. WHGA prepared a plat and associated coordination and analytical efforts to support an application to rezone the subject site to Planned Residential Neighborhood (PRN) excluding a commercial component within the Town of Leesburg.

Patterson Farm Engineering, Planning & Survey Services - Loudoun County, VA

WHGA provided engineering, planning, and surveying services for the subject property located on approximately 54 acres in Loudoun County, Virginia. The construction documents combined Phase I & II of the Preliminary Plat of Subdivision.

Blue Ridge View - Loudoun County, VA

WHGA performed professional engineering services for the subject property for five (5) lots located on approximately 21 acres in Loudoun County, Virginia.

Breazu Property Boundary Line Adjustment Plat - Loudoun County, VA

WHGA provided surveying services for the subject parcels located on approximately 312 acres in Loudoun County, Virginia.

Firm Affiliation

**William H. Gordon
Associates, Inc.**

Proposed Role

Surveyor

Years of Experience

35

**Registration &
Certifications**

1989 / Registered Land
Surveyor / Virginia / 1709

Education:

n/a Surveying Coursework,
University of Nebraska

Mr. Fielding has demonstrated project experience utilizing a full range of traditional field surveying methods. In addition, he has an in-depth knowledge of 3D Laser Scanning techniques and post processing methods, with projects ranging from highways and bridge structures, to building interiors and historical preservation.

Mr. Fielding's relevant experience includes:

Noma M. Cole, Jr. Pollution Control Plant - Fairfax County, VA

WHGA performed a high definition laser scan survey of underground tunnels and sampling stations at specified locations and generate a point cloud data set. Utilizing the point cloud data set, WHGA generated twelve cross-sectional views of the tunnel and associated piping and conduit as directed by Parsons and generated twelve plan views of pump stations and sample stations as directed by Parsons.

HOTD - IRS Building - Washington, DC

Engineering services for the IRS Building were provided by WHGA. Services included upgrading the service steam lines and utility locating. Among the replaced and realigned lines were the existing 8" steam line and the 6" condensate. Manholes were also created and manipulated to best service the system. The Heating Operation and Transmission District (HOTD) provides high-pressure steam to approximately 100 Federal buildings located throughout the DC area.

Rocky Pen Run Dam - Stafford County, VA

WHGA provided surveying services for the subject project located in Stafford County, Virginia. Specifically, WHGA provided 3D Laser Scanning, topographic, as-built, and construction stakeout services for dam excavation and foundation preparation, and associated improvements along the Rappahanock River. In addition, WHGA surveyors established and maintained horizontal/vertical controls for this project.

Lake Accotink Dredge - Fairfax County, VA

WHGA performed topographic surveying services in support of environmental services to conduct a dredge study, associated sedimentation study, and sediment management program for Lake Accotink. The site could not be surveyed with traditional survey methods due to the "quick sand-like" soil that covered the area. Therefore, WHGA utilized a 3D Laser Scanner to obtain the needed data for the client.

Lincoln Memorial Rehabilitation - Washington, DC

WHGA performed professional surveying services for the subject site located on the National Mall in Washington, D.C. Work performed under this contract was based on plans prepared by National Mall and Memorial Parks (2007). WHGA provided 3D Laser Scanning services for as-built and construction stakeout surveys.

MWAA Task Order Contract - Washington, DC

WHGA has provided surveying and civil engineering services at both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA has an active presence at DCA and IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA as part of its six year, \$3.4 billion, "d2" (Dulles Development) initiative.

National Gallery of Art - Washington, DC

WHGA provided professional surveying services for the subject property located on approximately 25 acres centrally located at Sixth Street and Constitution Avenue, NW, Washington, DC. Surveyors performed a comprehensive topographical survey of existing grounds at the National Gallery of Art. In addition to developing contours of the existing site conditions, WHGA identified (by grade) all potential low points for water infiltration into the various buildings comprising the National Gallery of Art. Due to the density of the site and the need for extreme detail, WHGA performed 3D Laser Scanning within this urban environment.

Firm Affiliation
William H. Gordon
Associates, Inc.

Proposed Role
Surveyor/3D Laser
Scanning Specialist

Years of Experience
8

Mr. Brown has a wide-range of survey computing and field surveying experience. His project portfolio includes projects for federal, state, local, and private agencies. In addition, Mr. Brown has demonstrated expertise in post-processing 3D Laser Scanning data for roadway, historic preservation, and interior restoration projects.

Mr. Brown's relevant experience includes:

Hilltop Preliminary Engineering - Jefferson County, WV

WHGA performed professional engineering and surveying services for the subject property located on approximately 9.7 acres in Jefferson County, West Virginia.

Noman M Cole, Jr Pollution Control Plant - Fairfax County, VA

WHGA performed a high definition laser scan survey of underground tunnels and sampling stations at specified locations and generate a point cloud data set. Utilizing the point cloud data set, WHGA generated twelve (12) cross-sectional views of the tunnel and associated piping and conduit as directed by Parsons and generated twelve (12) plan views of pump stations and sample stations as directed by Parsons.

HOTD - Washington Monument - Washington, DC

Surveying and engineering services for the Washington Monument were provided by WHGA, including topographic surveying, utility designating, and steam service line relocation and replacement. Special attention was given to this site, as certain aspects of this project interfered with the decorative architectural environment surrounding the monument. The new line implemented was constructed to minimize the impact of the pedestrian areas of the site. Approximately 7 miles of tunnels and 5 miles of direct buried piping are included in the HOTD's steam line system.

Lorton Landfill - Lorton, VA

WHGA was responsible for the site design and coordination of the environmental permitting for this 9.5-acre site located in southeastern Fairfax County. The facility is designed as a transfer and separating station to handle roll-off containers, metal recycling, cardboard, and "white goods". The site plan includes provisions for a 10,000 SF maintenance building, a septic drainfield system, significant buffers on the perimeter, underground stormwater management, and underground Best Management Practices (BMP).

MWAA Task Order Contract - Washington, DC

WHGA has provided surveying and civil engineering services at both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA has an active presence at DCA and IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA as part of its six year, \$3.4 billion, "d2" (Dulles Development) initiative.

National Gallery of Art - Washington, DC

WHGA provided professional surveying services for the subject property located on approximately 25.0 acres centrally located at Sixth Street and Constitution Avenue, NW, Washington, D.C. Surveyors performed a comprehensive topographical survey of existing grounds at the National Gallery of Art. In addition to developing contours of the existing site conditions, WHGA identified (by grade) all potential low points for water infiltration into the various buildings comprising the National Gallery of Art. Due to the density of the site and the need for extreme detail, WHGA performed 3D laser scanning within this urban environment.

Seneca Lakes Estates - Fauquier County, VA

WHGA provided surveying services for the subject properties located on approximately 900 acres in Fauquier County, Virginia.

Firm Affiliation
William H. Gordon
Associates, Inc.

Proposed Role
Sr. Survey Computer

Years of Experience
18

Marlin has experience in all aspects of photogrammetry going back to 1977. His career at Aero-Metric began in photogrammetric compilation and extended to all other mapping-related operations such as flight planning, ground control surveys, drafting, analytical triangulation, volume computations. He has also been involved in interactive graphics and data collection for input to GIS.

Since 1990, Marlin has been in charge of all mapping projects from planning to production for the Eastern Region of Aero-Metric. Marlin oversees all phases of the photogrammetric process including aerial triangulation, compilation and digital edit. He is also responsible for directing the photo lab, quality control and the survey team.

Marlin's responsibilities typically include all in-house project planning and coordination of photo lab operation, digital mapping, digital orthophoto production, and review of final delivery items to the client. He maintains the production schedule, oversees staffing assignments, and coordinates with the Project Manager.

Mr. Zook's relevant experience includes:

- Springfield Interchange Construction Progress - Digital Orthos
- Woodrow Wilson Bridge Construction Progress - Digital Orthos
- Northern Virginia Areas 1 & 2 - Three Year Survey Contract
- Maryland Department of Transportation Statewide Aerial Photogrammetric Services (7 years)
- Clark Street Bridge, Clarksburg, WV*
- Big Wanna Truss Bridge, Wanna, WV*
- Shady Spring Interchange Study, Shady Spring, WV
- Fourth Street Bridge, Fairmont, WV
- Dickson Dam Truss, WVP 848, Wayne County, WV*
- Kentucky Transportation Cabinet Statewide Survey Contract (8 years)
- Cleveland Innerbelt/ I-71 North, OH
- FHWA River Road Rehabilitation at Delaware Water Gap
- Scranton Loop Trail, Scranton, PA
- S.R. 0095 (I-95), Section BSR, Philadelphia, PA

*Projects complied with the 2000 WVDOH Technical Guidelines for GPS control surveys.

**Firm Affiliation
Aero-Metric, Inc.**

Proposed Role
Aerial Surveyor

Years of Experience
30

**Registration &
Certifications**
1993 / Certified
Photogrammetrist, ASPRS /
920

1999 / Professional Land
Surveyor / North Carolina /
L-4207

2005 / Professional
Photogrammetric Surveyor /
South Carolina / 24307

Education:
Associate Degree, Civil
Engineering, Penn State
University

Liberal Arts, Millersville
University

Surveying and Mapping Indefinite Quantity Contract for the U.S. Army Corps of Engineers

Maryland, Virginia, West Virginia, D.C., and Pennsylvania

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) provided surveying services under an indefinite quantity contract with the U.S. Army Corps of Engineers (USACE), Baltimore District to perform utility, cadastral, topographic, GPS control, and hydrographic surveys; subsurface utility designating/locating; and prepare mapping and easement plats, perform records research, and develop detailed descriptions of Baltimore District project sites. The contract work has involved extensive mapping services, including establishing control for aerial surveys, field fill-in topography for obscured areas, utility as-built augmentation for aerial mapping, and map testing. Tasks supported a variety of Corps projects within the Baltimore District, including utility design, environmental reclamation, park development, and flood control. Representative task orders include:

West Virginia & New York

- *Surveying for Levee Planning, Moorefield and Petersburg, West Virginia* – Performed extensive surveying along the centerline of the newly constructed Moorefield and Petersburg levees. Moorefield and Petersburg are situated adjacent to the South Branch of the Potomac River. For each levee, WHGA provided a profile survey along a combined total of eight miles to obtain the as-built elevation of the tops of the levees, a cross section survey of the levees at 110 locations, and 13 floodplain cross sections measuring 22,000 feet for use in floodplain study by the Corps; as-built survey at four access ramps constructed within the levees; and established new levee control monumentation for use in future monitoring or construction of the levee network. Prior to the construction of the levees, the river routinely flooded the cities, which resulted in losses of lives and property.
- *United States Army Reserve Center, Wheeling, West Virginia* – Performed topographic surveys, for an existing United States Army Reserve Flight Facility, located at the intersection with the base access road and Girty's Point Road on approximately eight acres. Site is located eleven miles north of Wheeling and is adjacent to the Wheeling-Ohio County Airport.
- *Survey & Mapping, Whitney Point Lake, New York* – Located on the Otselic River in Broome County, New York, WHGA provided 11 miles of topographic surveying services for the perimeter of Whitney Point Lake, and integrated a previous hydrographic survey at this New York State Park.

Pennsylvania

- *Dent's Run Acid Mine Drainage Project, Elk County, Pennsylvania* – WHGA performed static and kinematic GPS surveying to establish horizontal and vertical control for arterial topography of five separate locations containing 400 acres each, throughout an area encompassing 2,000 acres. Located in the rolling hills of Pennsylvania and adjacent to the Elk State Forest, this **project contained approximately five miles of stream damage due to the release of minerals and acid mine runoff from old mines**. The surveys provided a base map for use in preparation of a site plan; eliminated acid discharge from the mines, which preserves the natural state of the stream and those that inhabit it; and provides local economic benefits from a revival of sport fishing. WHGA performed all post-processing computations for the GPS network for this environmental reclamation effort.
- *Surveying for Levee Planning, Plot, Green Ridge, and Dickson City, Pennsylvania* – WHGA provided extensive mapping services to support feasibility studies for the design of proposed levees in Plot and Green Ridge townships, and Dickson City, Pennsylvania. For this 700+ acre project, WHGA provided GPS control, and topographic survey as-builts; aerial topographic; and subsurface utility as-built surveys, which included all electric, communications, water, gas, and storm and sanitary sewer lines. Of particular importance was WHGA's as-built survey of the storm sewer system in adjoining areas, which aided the planning of additional levees upstream, in Scranton. To refine aerial mapping prepared for the project, WHGA provided field fill-in/ground-level augmentation of the aerial maps and performed map testing on them. The successful completion of WHGA's surveying efforts contributed to the upcoming



construction of a 7,700 LF flood control system consisting of a levee and mechanically stabilized earth wall with associated closure structures, drainage structures, and erosion control.

- *Surveying in Support of New Control Monument Construction for Wilkes-Barre/Hanover Township and Kingston-Edwardsville Levee Raising projects, Wilkes-Barre and Plymouth, Pennsylvania* – WHGA established six new monuments adjacent to the proposed levees, which were under construction, to provide vertical control for as-built and maintenance of levee network. The surveys were performed using Second Order, Class I accuracy standards, using a digital level and bar code invar rod. The results of the survey were depicted on monument data sheets and provided to the levee contractors by the USACE.
- *Surveying & Mapping Services to Obtain Stream Cross Sections at Powderly Creek, Carbondale, Pennsylvania* – Performed field surveys, subsurface utility surveys, mapping services, and obtained invert and manhole rim elevations to attain stream cross sections along Powderly Creek near its convergence with Lackawanna River. Severe stream erosion exists along several open areas. WHGA will supplement previous mapping done by the Pennsylvania Bureau of Abandoned Mine Reclamation (BAMR), by including topographic features, planimetric features, property lines based on tax maps, and utilities along a four-mile stretch upstream. The resultant product will be used to develop detailed designs for stream relocation and restoration.
- *New Cumberland Transport Control Facility, New Cumberland, Pennsylvania* – WHGA performed topographic, boundary, and utility as-built surveys for this 48-acre site.
- *Forty Fort, Pennsylvania* – Performed topographic and utility as-built survey of 2.5 miles of levee.
- *Survey & Mapping, Loyalsock, Pennsylvania* – WHGA performed topographic and mapping services of nearby stream and sanitary sewers.
- *Survey & Mapping for Carroll Valley Section F Dam, Tom's Creek, Carroll Valley, Pennsylvania* – WHGA performed topographic surveying and mapping services of the embankments and of a dam breach at Tom's Creek.

Virginia

- *New Fort Belvoir Military Police and Fire Stations, Virginia* – WHGA performed topographic survey for the design and construction of a new fire station and police station at Fort Belvoir in Virginia. The topographic survey depicted all underground utilities running through the 6.5-acre site of the proposed fire station and 3.5-acres of the proposed police station.
- *Fort Belvoir Operation Training Center, Virginia* – WHGA performed topographic surveys and boundary surveys on 18-acres for the Operation Training Center, on a restricted area in Fort Belvoir, and boundary surveys on two sections for security use, and a topographic survey of the cemetery.
- *Fort Belvoir Humphrey's Engineering Center, Virginia* – Topographic survey and high detail utility survey of a 19+-acre site with one building, Building 8520. Survey was to locate and designate all existing utilities to upgrade deteriorating utilities surrounding the building. Original area contained 4 acres, surrounding Building 8520. The task was later expanded to include an additional 15 acres for planned development.
- *Surveying in support of Post Chapel, Fort Belvoir, Virginia* – WHGA performed a field run topographic survey on 12.5 acres within the existing base. The limits of mapping included open areas, with a few large roadside trees and utilities, and existing roadways. In addition to the topographic survey, a utility investigation was performed in which all subsurface utilities were designated and located and an as-built was performed on all gravity flow sewers.
- *Fort Belvoir Security Perimeter Fence, Virginia* – WHGA performed a field run boundary survey of a portion of the western perimeter of the property adjoining Accotink Village for use in installation of a new security perimeter fence.
- *Surveying for New Arlington National Cemetery Columbarium, Arlington, Virginia* – For construction of new columbarium at the cemetery, WHGA performed topographic and utility as-built surveys on 18 acres



within the cemetery. The detail ground level topography was performed during operating hours of the cemetery, requiring the survey crews to "stand down" whenever a burial service was performed.

- *Arlington National Cemetery Global Positioning System (GPS) Survey, Arlington, Virginia* – WHGA performed a GPS control survey within the cemetery to establish a survey control network for all future design projects. Fourteen monument locations were selected by the USACE. The WHGA survey crew worked during the cemetery's operating hours, therefore coordination with Arlington Cemetery management was necessary for final monument locations as well as timing the field survey so as not to disrupt the ongoing funeral services.
- *Fort Myer/Henderson Hall, Abbey Mausoleum, Arlington National Cemetery, Virginia* – WHGA performed field run boundary survey of the existing mausoleum for interagency land transfer. Archive records at Arlington County and the cemetery were used to establish the boundary.
- *Woodbridge Army Research Lab, Virginia* – WHGA surveyors performed a field run boundary survey on the 579-acre tract adjoining Belmont Bay and Marumsc National Wildlife refuge. This survey used the existing GPS control and a conventional field-run survey to establish and monument hazardous waste areas to be treated prior to conveyance by the U.S. Army and other government agencies in an interagency land transfer.

Washington, D.C.

- *Surveying for Physical Fitness Center, Fort McNair, Washington, D.C.* – WHGA performed a detail topographic survey on 9.3 acres within the existing base. WHGA cooperated with the base security personnel, meeting stringent security requirements during the survey. The limits of mapping included asphalt parking areas, open wooded areas, and several existing buildings. In addition, a subsurface utility investigation was performed in which all subsurface utilities were designated and located and an as-built was performed on all gravity flow sewers.

Maryland

- *Surveying in support of Flood Control and Stream Restoration along the Anacostia River, Phase II, Maryland* – WHGA surveyors provided field run topography and utility as-built surveys at 33 separate sites in support of the design of stream restoration projects in Prince George's, Montgomery, and Howard Counties. Typically covering 2–5 acres apiece, these surveys supported the design of erosion control devices for the protection of properties from flooding due to stream bank erosion.
- *Anacostia Park, Anacostia, Maryland* – Field run survey of existing 2,500 LF of stream channel for use in a hydraulic study for the USACE. Work includes aerial photo, utility as-builts, GPS control survey, kinematic GPS survey, subsurface utility locating and designating, gravity flow sewer as-builts, and right-of-way.
- *Anacostia Levee System, Phase III, Bladensburg, Maryland* – WHGA performed mapping of the design of an existing levee system network that will be raised. Also, performed mapping services and GPS static surveying to establish a high-order GPS control network and field locations using RTK GPS surveying techniques over an area of approximately 1,600 acres. This historic port is located at the National Peace Cross.
- *Surveying & Mapping Updates in support of Flood Control, Elkton, Maryland* – In support of mapping developed to determine the need for a flood control project in Elkton, Maryland, WHGA performed field surveys to supplement aerial surveys in order to update aerial digital mapping of the 275-acre Big Elk Creek watershed. Surveys included five as-built bridge surveys and 37 stream cross sections. WHGA set existing aerial panels, used GPS to obtain horizontal and vertical control information for each panel, provided the photographic and control data to Air Survey for their use in obtaining new aerial photography of the watershed, obtained field run topography for areas obscured by vegetation in the new aerial survey, located utilities, and upgraded Air Survey's new, 1"=50', one-foot contour interval



digital topographic maps to third order class 1 map accuracy standards. WHGA performed map testing on the new maps and obtained spot elevations to verify accuracy.

- *Surveying to Support Redesign along C&O Canal for National Park Construction, Cumberland, Maryland* – WHGA performed topographic, hydrographic, utility as built surveys, and real estate mapping of a 26-acre area for an extensive re-design of aqueducts; storm drainage; sanitary sewer, which alleviates effluent discharge into the Potomac River; and combined sewer systems, pump house, and force mains for the re-excavation and re-watering of the terminus of the C&O Canal for construction of a national park. WHGA will update existing maps for the redesign of this area, whose features include a train station, large-scale sanitary sewer system serving three communities, and a river. WHGA is working in concert with local, state, and federal agencies on the project, which represents a partnership among the Corps of Engineers, the National Park Service, Maryland Department of Transportation, and the City of Cumberland.
- *Surveying for Fort Detrick-National Cancer Institute Land Exchange, Maryland* – WHGA provided boundary surveying for a land exchange between neighboring Fort Detrick and National Cancer Institute properties. WHGA surveyors also prepared plats of the exchanged property.
- *Surveying in support of Baltimore Metro 1, Baltimore, Maryland* – WHGA performed topographic surveys on six sites, two of which includes Seton-Keough School and a portion of Loudoun Cemetery in which a portion of a stream crosses below an access road, located within Baltimore to improve water stream quality, stream restoration, stormwater management, park areas, wetland creation, and other environmental enhancements. Surveys and mapping included detailed topographic surveys; cross sections, both upstream and downstream; subsurface utilities; horizontal and vertical control; topographic features; planimetric features; property lines; and utilities. The survey encompassed 16 acres.
- *Surveying along the Western Shoreline, Smith Island, Maryland* – WHGA performed mapping along 4.5 miles of the north and west shorelines of the island. The scope of work included cross sections at one hundred fifty foot intervals, hydrographic mapping 500' from shoreline and 150' landside. This survey included establishing twelve new monuments along the shoreline. A static GPS survey was performed in order to establish survey control on the monuments. Real Time Kinematic GPS was used whenever possible for the shoreline and hydrographic cross sections. Mapping was in accordance with NOAA's flood epic elevations.
- *Surveying in support of Shore Protection Design, Community of Tylerton on Smith Island, Chesapeake Bay, Maryland* – WHGA surveyors conducted GPS surveys in support of the design of shore protection structures to prevent the further erosion of Smith Island in the Chesapeake Bay. The \$3 million project comprises a 2,700 LF vinyl bulkhead to help protect the community's northern and western shores, which have been eroding one foot per year, and a stone barrier on the southern shore, which has dissolved at a rate of 10 feet per year. In addition to the island locations at Tylerton, WHGA established static GPS control using existing NGS control monuments at three locations on the Maryland and Virginia mainlands: Nanticoke and Chrisfield in Maryland, and Wicomico Church in Virginia. All of the locations were linked together in a static GPS control survey. The final mapping product included static and kinematic GPS, hydrographic, aerial topographic, field run topographic, sewer as-built, subsurface utility designation/ location, and boundary survey information.
- *Surveying for Water Line and Pump Station Design, Warrenton Training Center, Secured Site, Virginia* – WHGA performed control, boundary, and topographic surveys near the Warrenton Training Center to support the proposed design of 1.9 miles of waterline and an associated pump station. The surveys encompassed 10,000 LF along two roadways in this wooded area. WHGA developed survey drawings showing all existing utilities (aboveground, surface, and underground), indicating type, size, top and invert elevations, direction of flow, and non-governmental property ownership. To develop an accurate model of the entire survey area's contours, WHGA developed a TIN of the surveyed point data using Softdesk. Since the survey area lay near the Warrenton Training Center, a classified communications



training and support facility, WHGA survey crews were required to procure all right-of-entry and necessary passes and badges, and notify all proper personnel prior to initiating the survey.

- *Surveying in support of Child Development Center III, Fort Meade, Maryland* – WHGA performed a field run topographic survey on 15 acres of undeveloped area for use in the design of the Child Development Center III. The survey included designating and locating all subsurface utilities and as-built of all gravity flow sewers. The limits of mapping included an existing stormwater management pond.
- *New Fort Meade Fire Station, Maryland* – WHGA performed topographic and roadway survey consisting of nine acres and 1,350 feet of roadway for the engineering design of a new fire station and associated roadway improvements at Fort Meade in Maryland.
- *Fort Meade Dining Facility, Maryland* – Field run topography and utility as-built survey for mess hall and barracks on nine acres in the heart of the compound.
- *Adelphia Naval Research Laboratory, Adelphia, Maryland* – WHGA performed a boundary survey for an 80-acre irregular site being acquired by the USACE through an interagency transfer.
- *Curtis Bay Depot, Baltimore, Maryland* – Performed earthwork and quantity surveys of numerous raw materials stockpiles at the base for inventory verification. Curtis Bay Depot, located beside the Chesapeake Bay, encompasses approximately 493 acres. It is 10 acres of wetlands, and is home to deer and an occasional eagle.
- *Blackwater National Wildlife Refuge, Cambridge, Maryland* – Performed field run control and mapping of 5,000 LF existing waterways and grasslands for preparation of engineering plans to prevent saltwater incursion.
- *Upper Marlboro, Site II, Upper Marlboro, Maryland* – WHGA performed topographic mapping for this site in Upper Marlboro, Maryland.
- *Poplar Island Habitat Restoration, Dikes and Access Channel Construction, Phase I, Talbot County, Maryland* – WHGA provided surveying services for the development of a digital terrain model/template for all proposed dikes and construction materials, and the existing bathymetry survey.



Prince William County Survey IDIQ

Prince William County, Virginia

Project Highlights

- ◆ Provide professional surveying and engineering services
- ◆ IDIQ contract

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) provided surveying and engineering services under an open-end contract with Prince William County to perform multiple surveying services including: topographic surveys, easement plats, mapping and platting, and stakeout surveys. Representative task orders included:



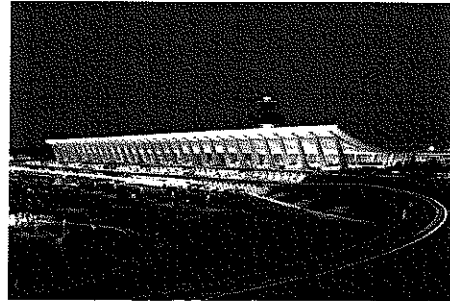
- **1903 Radford Drive** – WHGA prepared a complete topographic survey including existing easements and storm sewer system for three parcels and VDOT Right-of-Way defined by the provided exhibit. WHGA also prepared an easement plat for proposed storm drain system after completion of design and construction of storm drain system.
- **15904 Jefferson Davis Highway** – WHGA prepared a boundary of the property located on approximately 0.96-acres in Prince William County, Virginia.
- **Hooe & Union Streets (Barbee Street)** – WHGA provided surveying services for the subject property located in Prince William County, Virginia.
- **Higgins Road** – WHGA prepared a boundary and topographic survey for the subject property located in Prince William County, Virginia. Surveyors prepared an easement plat along the constructed storm drain system.
- **Route 1 Sidewalk Improvements** - WHGA provided surveying mapping and platting services associated with the referenced project.
- **Minnieville Road West - Utility Easement S/O** – WHGA provided surveying stakeout services for utility stakeout for Verizon, NOVEC and Columbia Gas associated with the referenced project.



Task Order Surveying and Civil Engineering Services for the Metropolitan Washington Airports Authority

Washington Dulles International Airport & Ronald Reagan National Airport

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) has provided survey and civil engineering services to both Ronald Reagan National Airport (DCA) and Washington Dulles International Airport (IAD) since 1984. Our work at the airports has been conducted under task order contracts with a variety of highly reputable clients, including the Metropolitan Washington Airports Authority (MWAA) itself, Parsons Management Consultants (PMC), Giuliani Associates Architects, Campbell & Paris Engineers, Michael Baker Jr., Austin Company, International Airports Consultants, and HNTB. Typically, these on-call contracts require immediate response, night surveys, and surveys in controlled access areas.



WHGA has worked on more than 60 tasks since MWAA's Capital Development Program began. WHGA is an active presence at IAD and DCA, particularly at IAD, where we are now providing professional surveying and engineering services in support of the extensive expansions undertaken by MWAA there as part of its \$3.4 billion, six-year "d2" (Dulles Development) initiative.

Surveying

WHGA's survey services have included quality assurance surveys for the majority of new construction at both airports, large and small topographic surveys, detailed as-builts of underground utilities, stream cross section surveys, lease line surveys, roadway surveys, forensic surveys, construction layout, as-builts requiring confined space entry, structural/architectural surveys for design-build modifications and new construction, and high-precision horizontal and vertical control surveys using Global Positioning Systems (GPS), including establishment of a control network for the entire DCA. We have managed underground utility locating and designating for MWAA, and now have the hardware and personnel to directly perform this service ourselves.

Through their work for MWAA, WHGA surveyors have become deeply familiar with the considerable safety precautions that must be practiced when performing work at DCA or IAD. Our surveyors work in highly trafficked project areas that pose significant hazards to the unwary surveyor. This is particularly true airside, where surveys must be performed amidst a busy, mobile environment of ground support vehicles and aircraft. We are also versed in the formalities of gaining access to highly controlled areas of the airports. For example, all of our surveyors carry Aircraft Operations Area passes at IAD, and we have eight trucks that have been thoroughly inspected by MWAA for use on IAD property. Some of WHGA's surveying tasks under this ongoing, long-term contract include:

- *Quality Assurance Surveys at IAD* - WHGA has performed numerous quality assurance surveys of expansions currently under construction at IAD, including the main terminal expansion, the midfield Concourse B, the north and west flank parking garages, new access roads and satellite parking lots, high speed taxiways, and ramps and runway improvements.
- *Permanent T-Gate Reconstruction Project at IAD* - WHGA performed a variety of surveys in support of the construction of the permanent T-Gate project at IAD, an extensive design project located immediately south of the main terminal that provides additional aircraft gates. WHGA performed a detailed field run topographic survey (0.2-foot contours) of the area, including an as-built survey of all gravity flow sewers, and designation of all subsurface utilities; a control survey; a structural/architectural survey of the interior



Task Order Surveying and Civil Engineering Services for MWA, continued

floors of the main control tower; and a field location survey of all soil and geotechnical borings taken for the project.

- *Main Terminal Curtain Wall at IAD* – WHGA performed a field run survey of the existing steel mullions that carry the glass on the front and rear of the main terminal at Dulles Airport. Using a manhoist, working inside of the main terminal, often at night, crews located the steel frames at all ends, bends, and tees. WHGA determined that MWA only needed to replace the glass, as opposed to both the glass and frame, resulting in major cost savings to the airport.
- *Pedestrian Walkback Tunnel at IAD* – WHGA performed field run topography, sewer as-builts, and building column line as-built surveys along a 300-foot-wide route extending the 1,400-foot length from the existing main terminal to the new Midfield Concourse B Terminal, airside at IAD. The route crossed through the taxiways and roadways of the ramp area and required significant coordination with ground control and airport operations as survey personnel worked among aircraft and vehicles in motion. All surface features were located and identified and subsurface utilities, including FAA duct banks and aircraft fuel lines were marked by NAL and mapped by WHGA.
- *Collapsed Pedestrian Walkback Tunnel Forensic Survey at IAD* - Following the collapse of the walkback tunnel during construction, WHGA surveyors performed a topographic survey of the collapsed tunnel as part of an investigation by MWA and accident investigators. WHGA performed weekly surveys on the tunnel to monitor points for PMC.
- *Stormwater Management Master Plan for IAD* - WHGA performed a number of survey tasks in support of the development of a Stormwater Management Master Plan for Dulles Airport. The plan guided the development of stormwater management BMPs to control water quality during and after the construction of the airport's numerous expansions. Surveys performed by WHGA included conventional and GPS control surveys, cross section surveys for all streams traversing the airport (93,000 LF, 100 sections), as-built surveys of the storm sewer system (more than 1,300 structures), and field run topographic surveys in areas obscured by vegetation from aerial mapping. WHGA provided the stream cross-section information in HEC-2 so that a HEC-2 model could be developed by the prime contractor (HNTB). WHGA's storm sewer survey information was included in a GIS developed for the airport.
- *Runways 1L/19R, 1R/19L, and 12/30 Airfield Shoulder Rehabilitation at IAD* – WHGA established horizontal and vertical survey control for use in aerial mapping by Air Survey for the area of the three runways at Dulles Airport. WHGA performed field run surveys to obtain the location of utility structures within the proposed area of construction.
- *New North Red Lot at IAD* – WHGA performed field run topographic and utility as-built surveys of a three-acre area on the north side of Dulles Airport for the proposed expansion of the red lot parking area.
- *United Airlines General Services Expansion (UAL-GSE) at IAD* – WHGA performed field run topographic and utility as-built surveys of a four-acre area on the north side of Dulles Airport for the proposed expansion of the existing UAL-GSE building.
- *Cargo Building 6 at IAD* – WHGA performed field run topographic and utility as-built surveys of a three-acre area on the north side of Dulles Airport a proposed new 25,000-SF cargo building.
- *Dulles Airfield Rescue & Fire Facility (ARFF) Building, Roads and Utility Corridors* – WHGA performed field run topography and utility as-built surveys of the four-acre site for construction of a new rescue and fire facility and surrounding roads and utilities.
- *Dulles Access Road Fence Replacement Projects* – WHGA performed a right of way survey and field layout of new right-of-way fence at six locations along the Dulles Airport Access road.



Task Order Surveying and Civil Engineering Services for MWA, continued

- *North & South Disposal Areas at IAD* – WHGA performed a field run topographic survey and utility as-built on the two parcels located on the north and south sides of the airport containing approximately 25 acres.
- *Remote Employee Parking at IAD* – In support of the construction of a proposed parking lot providing 9,200 spaces, an access road for shuttle buses, and a bridge crossing the Dulles Greenway, WHGA surveyors performed a boundary survey, field run topographic survey, utility as-built survey, soil boring locations, stream cross sections, and control for use in aerial topographic mapping by Air Survey. The 185-acre project is located on the north end of IAD, bounded by the Dulles Greenway, Route 28, and Pacific Boulevard.
- *Bus Maintenance Facility at IAD* – WHGA performed a field run topographic survey and utility as-built survey of a 3.6-acre site for a new bus maintenance facility.
- *United Airlines Infield Gates at IAD* – For the redesigned United Airlines Gates D1– D3, WHGA surveyors performed a field run topographic survey, utility as-built surveys locating building columns and existing jetways, and construction stakeout.
- *Main Terminal Expansion at IAD* – WHGA performed field run topographic survey, utility as-built survey, and an as-built survey to obtain the location of the columns of the existing main terminal. WHGA established survey monumentation along the perimeter of the project for use as primary control by the contractor during construction of the proposed terminal expansion.



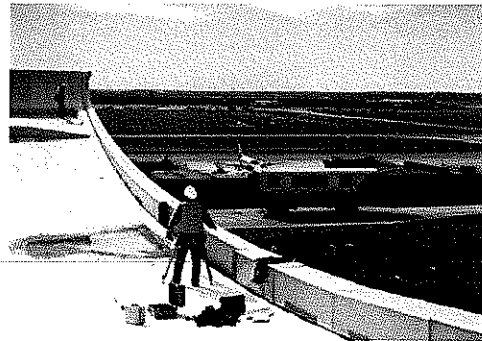
- *Main Terminal Roof and Ceiling As-built & Monitoring at IAD* – WHGA performed a field run survey of the existing roof prior to the proposed expansion of the main terminal for use in design of the proposed roof. Following construction of the main terminal expansion, WHGA performed an as-built survey on the ceiling. In order to avoid contact with asbestos coating the ceiling, a laser level was used and measurements recorded to the beam of light at the point of contact with the ceiling. This method has been used continuously since the initial survey to monitor the motion of the ceiling four times a year.
- *Pan American Terminal at IAD* – WHGA performed a field run topographic survey, utility as-built survey, and construction stakeout for the expansion of the PanAm Terminal at the east end of Midfield Concourse C.
- *Midfield Terminal Bridge at IAD* – WHGA performed a field run topographic survey, utility as-built survey, and location survey of the existing columns located in the east and west terminals and the maintenance buildings, and provided field layout of the proposed bridge for construction.
- *South Staging Area at IAD* – WHGA surveyors set targets for aerial topography, performed field run topography, established control for the site, and are providing construction stakeout to PMC for the construction of a 60-acre lay down/storage area for use by contractors working on the expansion projects occurring at the airport.
- *PMC South Office Space at IAD* – WHGA provided topographic surveying for construction of 23,000 SF of new airside office space for PMC on three acres north of the south staging area, as well as for the extension of utilities to the site from the ARFF project site.
- *Stormwater Management Survey at IAD* – WHGA performed a survey of the existing storm sewer system comprised of approximately 3,000 structures and 92,600 LF of existing stream centerline. In order to obtain the horizontal and vertical locations of all storm drainage structures within the stormwater



Task Order Surveying and Civil Engineering Services for MWAA, continued

management area, RTK GPS survey was employed. In addition, a field survey was performed on each structure to obtain the type, construction material, pipe type, size and invert elevation, and the observed condition of each structure. The final information was presented in a GIS format, Microsoft Access, AutoCAD, and Microstation using MWAA standards. A field run survey was performed to obtain the centerline profile of existing streams employing both conventional methods and RTK GPS surveys. Field work was performed on this project during all hours of airport operation, requiring ongoing coordination with the Airport Operations duty officer, airline operations, and security personnel.

- *FIS Building at IAD* – WHGA surveyors performed topographic base mapping of existing buildings and utilities for the as-built and construction stakeout of the midfield terminals and the FIS (International Arrivals) Facility.
- *Taxilane "C" Base Line Control and Stakeout at IAD* – WHGA surveyors provided construction layout and quality control for various airport projects at Washington Dulles International Airport.
- *Concourse "D" at IAD* – WHGA provided a detailed topographic survey identifying horizontal and vertical utility locations.
- *Sites 17 & 18 at IAD* – WHGA performed field run topography and utility as-built surveys of the site for use in site design.
- *Hangar/Contingency Parking at IAD* – WHGA performed field run topographic and as-built surveys for this quick-turn around design project of the Contingency Parking Lots at the north end of the airport.
- *South Area Fuel Farm at IAD* – WHGA provided a stakeout for new fuel tank farm. Stakeout included A gas and M gas lines and tanks, glycol tank, operations building including interior walls for carpenter, as well as all storm, sanitary, water line, electrical, curb, edge of pavement, and fence lines. This job occurred adjacent to an active runway requiring safety and security procedures hampering standard survey procedures.
- *Horizontal & Vertical Control Network at IAD* – WHGA supplemented a GPS network with conventional surveys to produce a network large enough to include all future runway projects and precise enough to be used for future main terminal projects.
- *United Airlines Maintenance Building at IAD* – WHGA provided construction stakeout for a new maintenance building for United Airlines.
- *GPS Monument Replacement at IAD* – WHGA prepared GPS and conventional surveys to replace monuments destroyed during construction on various locations within Washington Dulles International Airport property.
- *ALTA/ACSM Pacific Blvd Access at IAD* – WHGA performed ALTA/ACSM survey for the Pacific Boulevard Access Property that included field-run boundary survey of 2.5 acres in accordance with ALTA/ACSM Land Title Survey Requirements of 1997.
- *Concourse "B" Mobile Dock (Dulles Temporary Mobile Lounge Dock) 8 & 9 at IAD* – WHGA provided Quality Assurance and locating for steel monitoring, concrete floor monitoring, and column lines.
- *North & West Flank Parking Garage at IAD* – WHGA provided Quality Assurance and locating for steel monitoring, concrete floor monitoring, and column lines.



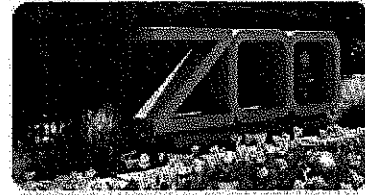
Task Order Surveying and Civil Engineering Services for MWAA, continued

- *Heating & Cooling Addition/Monitor at IAD* – WHGA provided construction monitoring for infrastructure runway crossing.
- *Stock Pile Quantities at IAD* – WHGA provided construction material stockpile monitoring.
- *Midfield Terminal Expansion at IAD* – WHGA provided building control layout for the second midfield terminal addition.
- *Interim Terminal Road Ramp at IAD* – WHGA provided Quality Control and grade computing pre- and post-construction of terminal road ramp.
- *Utility Locations at DCA & IAD* – WHGA performed utility locations and plotting for various projects at both Ronald Reagan Washington National and Washington Dulles International Airports. These surveys included the establishment of second order class 2, FGCC standard control between Reagan National Airport and adjacent projects using four Ashtel GPS receivers.
- *Second Order Control Surveys at DCA* – WHGA performed second order class 2 control surveys in accordance with Federal Geodetic Control Committee (FGCC) standards at Ronald Reagan Washington National Airport and adjacent projects using four GPS receivers.
- *Fuel Farm at DCA* – WHGA provided stakeout for building, utility and fuel tank monitoring roadway.
- *South Parking Garage at DCA* – WHGA performed building control stakeout, utility and roadway stakeout, and provided Metro Rail Column Monitoring.
- *Marriott In-Flight Kitchen/Hangar 7 at DCA* – WHGA performed topographic base mapping of existing building and utilities, as-built and topographic surveys for Hangar 7, and as-built and topographic surveys for the proposed kitchen facility.
- *Main Terminal Rehabilitation / NW Terminal Project at DCA* – WHGA performed a field run topographic survey and sewer as-built survey of a 47-acre area adjacent to Terminal A for use by MWAA in developing a definitive scope and cost estimates for apron grading and drainage.
- *Comprehensive Survey Control Network at DCA* - WHGA was instrumental in establishing a control network for DCA. Data from this survey were included in the National Geodetic Survey system upon completion of the GPS survey.
- *North Terminal at DCA* – WHGA performed a field run as-built survey to determine the deflection of the steel floor girders in the new main terminal piers.
- *Runways 18-36 at DCA* – WHGA provided control for 7,000 LF of runway and quality assurance checking on the new overlay pavement. All survey work was done at night with continuous contact with airport air traffic control.



National Zoological Park - Task Order Contract Washington, DC

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) as a subconsultant under a task order contract with the Smithsonian Institution, provided surveying and civil/site engineering services for various infrastructure improvements at the National Zoological Park. These improvements are part of planned renovations of many of the Zoo's exhibits, including the Tapir and Bongo Yards, the Australia Exhibit, the Duck Ponds, the Giant Panda House, and the Elephant House. A sampling of our task orders follows:



- Surveying, civil engineering, and landscape architecture services for the renovation of the Mane Restaurant, including providing handicapped access from Olmstead Walk to the lower level of the restaurant and police station; reconstructing the loading dock area, installing a sprinkler system water main for fire containment; and preparing landscape plans.
- Civil/site engineering and surveying services for the design of a 1,200 foot long Asia Trail that varies in width from 8 ft to 16 ft and meanders through new exhibits that include the Sloth Bear, Red Pandas, Fishing Cats and existing Elephant Yard and Giant Panda Exhibit. The task includes survey and site design for an additional indoor holding area for the pandas and for a temperature controlled bamboo storage facility. WHGA's design includes an ADA accessible bridge linking the Asia Trail to the existing Wetlands/Bird House exhibit. WHGA redesigned the pedestrian walkway from Olmsted Walk to the existing Panda Exhibit to accommodate the new trail.
- Utility modeling and mapping for the development of Geographic Information System (GIS) for all the Zoo's above- and below-ground utility infrastructures. Linking data contained within Microsoft Access databases to each utility structure and utility line, our survey personnel created GIS models for telecommunications, electric, sewer, water, storm drainage, underground storage tanks, steam tunnels and vaults, and irrigation systems. Their work involved creating topology overlays for routing purposes, polygon areas for zone and building data, existing contour mapping overlays, and writing queries for accessing the data.
- Civil/site engineering and surveying for the construction of a new, highly visible Sloth Bear exhibit. The site design required significant innovation, having to address the bears' unique behavioral and climatic needs, containment methods, keeper access, and all ADA requirements for visitor accessibility. An off-exhibit holding facility was also being designed for the bears and other animals at the site near Connecticut Avenue. WHGA documented and evaluated reuse options for all existing utility lines and structures potentially serving the new site, including all underground utilities.

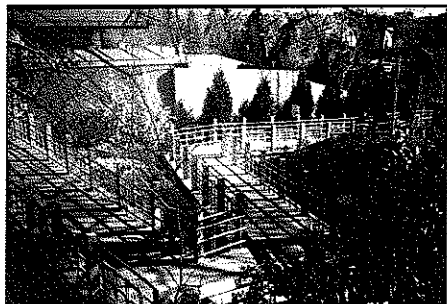


Our crews have surveyed a number of exhibits in addition to the grounds.

- Comprehensive Topographic and Utility Location Survey, including aerial topography and as-built surveys on all storm, sanitary, and combination sewers, and utility designation and location of all electric, communications, cable, water, irrigation, steam, and gas lines for the entire property. WHGA has also provided detailed field run topography on the Blue Road, the Watershed Exhibit, the Mane Restaurant, the Picnic Pavillion, and several other proposed exhibits.
- Surveying and engineering design for the rehabilitation of the drainage system, alignment, and pavement of a roadway supported by a stone wall facing wooded Rock Creek Park. The condition of the existing wall required emergency action plans completed within a restricted time schedule. Due to the historic and scenic nature of the site, roadway and typical features were designed to minimize impacts to the surrounding environment.



National Zoological Park - Task Order Contract, cont.



WHGA designed the new ADA accessible ramp to the Giant Panda House, above.

- Civil support for the concept design of the new Domestication Exhibit. WHGA prepared an Existing Conditions Analysis to verify construction required for the proposed exhibit; verified use of existing utilities and retaining walls; and analyzed pedestrian and services accesses.
- A Water Distribution Study that analyzed of the Zoo's water distribution, including an existing record drawing review of the system; water demand analysis; hydrant flow tests; fire flow demand analysis; performance/ deficiency analysis; and evaluation of rehabilitation alternatives. The study culminated in WHGA's provision of an up-to-date WaterCad computer model of the Zoo's system, some of whose sections are more than a century old and recommendations for system improvements include additional hydrants, storage tank feasibility study, booster pumps, and routine water usage monitoring.
- Design of the new 250-LF visitor ramp leading to the Panda House. The ramp makes the house ADA-accessible, with <5% grade and multiple landings, and facilitates truck access. It is constructed of wood, with a bamboo theme in the railing to complement its surroundings
- Surveying and design for the new 135 LF asphalt pathway connecting Elephant Walk with Valley Drive. The task involved demolition of the existing trail, grading and subsurface drainage for the Emu Yard.
- Designed a new water main to allow increased water capacity to two adjacent exhibits – the Rabbit Hutch and Bird Exhibits. WHGA also provided storm system improvements to correct drainage problems, including specifications , cost estimates, and a demolition plan.
- Grading and utility plans; handicapped access plans, demolition and landscape plans for the Picnic Pavilion that accommodated zoo tree evaluations.



The new Picnic Pavilion



NAVFAC- Design/Build- IDQ Contract Engineering/Survey Field Activity- Chesapeake Area

Project Highlights

- ◆ Surveying supporting various NAVFAC GPS survey, utility designation, topographic, mapping, aerial, ground level and as-built gravity flow sewer survey projects

WILLIAM H. GORDON ASSOCIATES, INC. (WHGA) provided surveying services under an Indefinite Quantity Contract with the Naval Facilities Engineering Command (NAVFAC) to perform multiple survey services including: GPS surveying, topographic mapping and surveys, utility designating and mapping, aerial and ground level mapping, and as-built surveys on gravity flow sewers. Representative task orders include:



- *Space Surveillance OPS Center, Dahlgren, Virginia.* WHGA provided GPS surveying, topographic surveying, and mapping of runways in areas with heavy vegetation, 200,000 feet of subsurface utility designating, and utility mapping services for this 16.5-acre site. These surveys will be used in the design of the proposed expansion of the facility.
- *Andrews Air Force Base – East Runway Rehabilitation Project, Andrews Air Force Base, Prince Georges County, Maryland.* WHGA surveyors prepared mapping for use in the design of an existing 9,800-foot runway and taxiway rehabilitation. Low-level helicopter photography was performed on the east runway for use in preparation of 1"=40' aerial topographic maps reflecting 0.2 foot contours. Ground level surveys were performed to establish control for aerial mapping and for map testing and augmentation. Field run topographic surveys were subsequently performed on taxiways adjacent to the two runways. In addition, locations were obtained on a large number of geotechnical borings located on and adjacent to the runways. Map testing was conducted in the final stage to verify accuracy of topographic mapping.
- *Andrews Air Force Base – Squad Operations Facility, Andrews Air Force Base, Prince Georges County, Maryland.* WHGA surveyors conducted topographic and subsurface utility designating and mapping for this 2-acre site at the location of the "proposed" squad operations facility.
- *Joint Strike Fighter Test and Support Facility, Patuxent River Naval Air Warfare Center, Maryland.* WHGA prepared a field run survey of the existing topography, approximately 40 acres, that included as-builts of gravity flow sewers and location of underground utility markings by others. The survey will be utilized by the A-E for the design/build of three separate multi-story buildings.
- *Bolling Air Force Base, Washington, D.C.* This project involved the relocation of a storage area on Bolling Air Force Base. Surveyors obtained security identification badges and continued security coordination on an ongoing basis. WHGA conducted several stakeout services including: stakeout for grading, electric duct bank, storm sewer, pavement and CE material storage concrete slab stakeouts. Finally, an as-built survey was prepared to verify that construction is in substantial conformance with construction design drawings.
- *Heritage Center Marine Corps Museum, Quantico, Virginia.* In Phases 1A and 1B, WHGA surveyors provided utility designating and field surveys in support of the design and construction of a 900-ft entrance road and parking area. Phase 1C was the final design. WHGA managed the clearing of the entire site and



ESI controls were established under the task. WHGA engineers completed design drawings that included; grading and erosion, and siltation control services.

- *Dahlgren Park Ceremonial Grounds, Washington Navy Yard, Washington, D.C.* WHGA performed a topographic survey for the contractor to be used as an as-built submittal for the client. WHGA surveyors were required to obtain extensive security clearances to access this 1/4-acre parade ground site.
- *Patuxent River Recreational and Ceremonial Grounds, St. Mary's County, Maryland.* Topographic survey was completed for use as a base map for design/build improvements to the existing site. This project also required extensive security clearance for all WHGA surveyors.



Similar Projects – Current Performance

WHGA is currently working on a variety of topographic, boundary, and on-call survey projects in the Northeastern Panhandle of West Virginia and the Washington, DC Metropolitan area. Below is a sample of projects of similar scope to this solicitation that we are currently working on.

Langlet Property – Charles Town, WV

WHGA performed topographic and boundary services for the subject property located on approximately 246 acres in Charles Town, West Virginia. WHGA provided the client with aerial topography surveys for six parcels of land through our subconsultant Aero-Metric, Inc. The boundary survey included the identification of a new Rt.9 right-of-way. (not yet monumented)

Route 340 Improvements – Harpers Ferry, WV

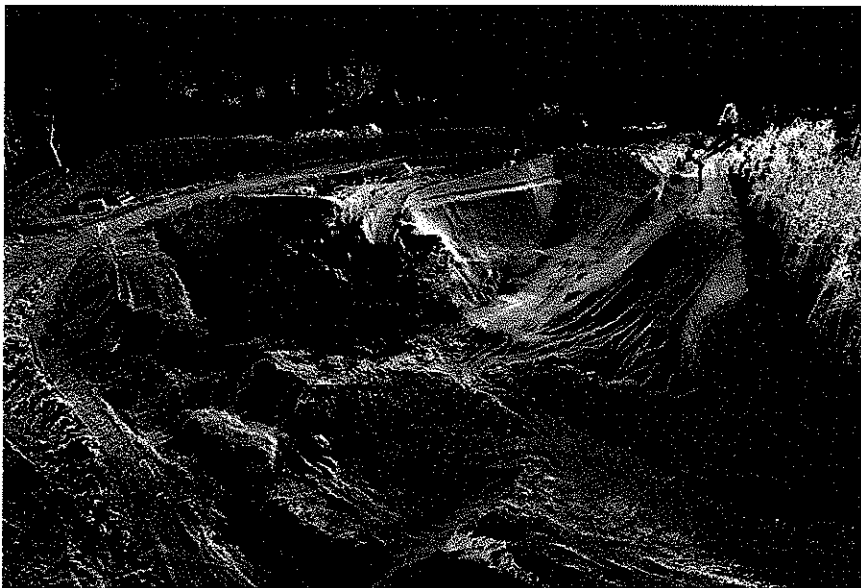
WHGA performed topographic and 3D Laser Scanning services for the development of proposed turn lanes, including a portion of the bridge that crosses the Shenandoah River in Harpers Ferry, West Virginia.

Bakerton Fire Station – Jefferson County, WV

WHGA provided topographic and boundary surveying, civil engineering, and planning services for the subject property located on approximately two acres in the Harpers Ferry District of Jefferson County, West Virginia.

Customs Border Patrol Advanced Training Center - Jefferson County, WV

WHGA provided civil engineering services for the subject property located on approximately 100 acres in Jefferson County, West Virginia. In addition, WHGA has been contracted to provide future topographic and construction stakeout management services for this project.



WHGA provided surveying services for Rocky Pen Run Dam located in Stafford County, Virginia. Specifically, WHGA provided topographic, as-built, and construction stakeout, and 3D Laser Scanning services for dam excavation & foundation preparation, and associated improvements along the Rappahanock river. In addition, WHGA surveyors established and maintained horizontal/vertical controls for this project.



Survey Task Order Approach

Our Approach

Our proposed approach involves a step-wise process conducive to task-order type contracts. Below is a detailed discussion of our approach that involves interaction with the State of West Virginia on a continuous basis throughout the task maintaining communication, thereby creating a more fluent, flexible exchange of ideas between our clients and us.

Once a task order is assigned, WHGA will meet with West Virginia officials to finalize the objectives and expectations for the project. WHGA will then collect and assimilate all available relevant data in order to avoid duplication of effort. The WHGA team will analyze the data and, where appropriate, provide additional study to ensure that adequate information exists upon which to proceed with the project design. Once the objectives of the design and the available information are established, WHGA will develop a project scope of work based on the level of effort, applying all relevant in-house technologies to accomplish the task.

Kick-Off Phase

During this phase, an outline of the general objectives of the project will be developed. This will involve obtaining available base data and information pertinent to the project site area. Typical base data will include information relative to the parcels that could be impacted; title report; existing storm, sanitary, and water distribution systems; as well as electrical lines, gas mains, fiber optic lines, and other utility and appurtenant locations (meters, valves, and vaults). The limits of the project area will be identified and any specific concerns known by West Virginia representatives will be discussed.

Surveying Phase

For nearly three decades, WHGA's Land Surveying Department has provided the highest levels of accuracy and precision on very complicated projects located in urban areas, and those within confined or tight site constraints. We have built our solid reputation upon the foundation of quality service and the expertise of our staff.

Our mapping can be used to establish a more accurate representation of existing conditions, which will be necessary in developing alternatives and will aid in presentations to the State of West Virginia and public citizen groups, if needed.

Our extensive surveying expertise includes:

- High-Definition Surveys (3D laser scanning and point cloud technology)
- Topographic Surveys (control for aerial and field run)
- ALTA/ACSM Land Title Surveys
- Route and/or Right-of-Way Surveys
- Boundary Surveys (to include land record research, and monumentation)
- Legal descriptions (parcels of land and easements)
- Planimetric Surveys (illustrating existing conditions)
- Cadastral Surveys (used to document land ownership, by the production of documents, diagrams, sketches, plans (plats in USA), charts, and maps)
- Geodetic Surveys (utilizing GPS)
- Construction Stake-Out
- Geographic Information Systems (GIS) (including field collection of data and the development of a database)
- Computation of Quantities (field location of stockpiles and volume computations)



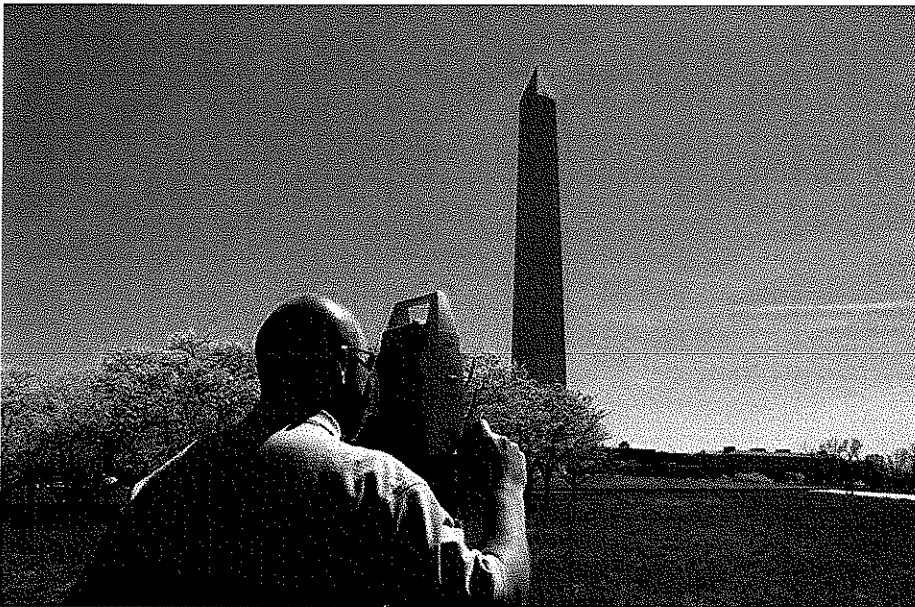
Survey Equipment

All field crews are equipped with GPS receivers capable of performing static or real-time DGPS surveying using Virtual Reference Stations (VRS) technology whenever possible, or radio transmitters, robotic total stations and the latest touch screen data collectors using Windows CE that are downloaded daily into networked computers dedicated specifically for this purpose. To produce seamless field to finished products, WHGA utilizes enterprise wide software solutions. WHGA uses state of the art Leica TPS1200 robotic, reflectorless total stations. All robotic systems can be used in direct reflectorless (DR) mode while locating roadway centerlines and pavement without endangering our professionals and minimizing disturbance to vehicular traffic by keeping them off the roads. Our personnel are trained and experienced working within rights-of-way, confined spaces, and are equipped with appropriate safety gear to ensure compliance with OSHA and state requirements. WHGA's surveyors use all the required safety signage and have certified VDOT flaggers among its field personnel.

In addition to the standard surveying equipment above, WHGA owns and utilizes a Leica ScanStation 2 to perform High-Definition Surveys, utilizing point cloud technology. This state-of-the-art equipment allows WHGA to provide more accurate project results utilizing as little as one-fifth of the field labor as employed by traditional methods.

Professional Drafting Capabilities

WHGA utilizes state-of-the-art software for all design and drafting. For this project, we anticipate using our most recent version of AutoCAD (2007) for all drafting requirements. Software that is chosen and utilized by our firm is designed to meet industry standards so that information can be easily and effectively shared between consultants and with the client. Finally, WHGA maintains hardware systems that are backed up through a quadruple redundancy method to assure our clients data integrity in case of a catastrophe.



WHGA performed surveying and engineering services for the Washington National Monument, including topographic surveying, utility designating, and steam service line relocation and replacement. Special attention was given to this site, as certain aspects of this project interfered with the decorative architectural environment surrounding the monument. As part of a larger task order contract, WHGA was able to provide the client with high-quality deliverables for this site on-schedule and within budget.





State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DEP14385

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 CHUCK BOWMAN
 304-558-2157

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ENVIRONMENTAL PROTECTION
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 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/01/2008				

BID OPENING DATE: 10/21/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
1001	1	JB		962-52		
<p>MAPPING SERVICES FOR NORTHERN COUNTIES</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S OFFICE OF ABANDONED MINE LANDS & RECLAMATION, IS SOLICITING BIDS FROM INTERESTED VENDORS QUALIFIED TO PROVIDE MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS & CONDITIONS, BID REQUIREMENTS, SCOPE OF WORK, AND THE FOLLOWING BID SCHEDULE.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN & CONSTRUCTION PROJECTS THROUGHOUT THE NORTHERN COUNTIES OF WEST VIRGINIA INDICATED HEREIN.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: TELEPHONE: 703.263.1900 DATE: 10/21/2008

OFFICE: Principal & Director of Survey FEIN: 54-1070583 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia
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 2

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE 	TELEPHONE 703.263.1900	DATE 10/21/2008
PRINCIPAL & DIRECTOR OF SURVEY FEIN 54-1070583	ADDRESS CHANGES TO BE NOTED ABOVE	

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PAGE
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<p>VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>EXHIBIT 10</p> <p style="text-align: center;">REQUISITION NO.: DEP14385</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1</p> <p>NO. 2</p> <p>NO. 3</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE 	TELEPHONE 703.263.1900	DATE 10/21/2008
NAME Principal & Director of Survey	FEN 54-1070583	ADDRESS CHANGES TO BE NOTED ABOVE

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PAGE
 4

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NO. 4					
NO. 5					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p>..... SIGNATURE William H. Gordon Associates, Inc. COMPANY 10/21/2008 DATE</p> <p>REV. 11/96</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p>						

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SIGNATURE	TELEPHONE 703.263.1900	DATE 10/21/2008
Principal & Director of Survey	FEIN 54-1070583	ADDRESS CHANGES TO BE NOTED ABOVE

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10/01/2008				

BID OPENING DATE: **10/21/2008** BID OPENING TIME: **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: CB-23</p> <p>RFQ. NO.: DEP14385</p> <p>BID OPENING DATE: 10/21/2008</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: 304.728.0117</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): Roger E. Harris, PE, LS</p> <p>-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: TELEPHONE: 703.263.1900 DATE: 10/21/2008

FILE: Principal & Director of Survey FEIN: 54-1070583 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: William H. Gordon Associates, Inc.

Signed: 

Date: 10/21/2008

Title: Principal & Director of Survey

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ# DEP14385**BID SCHEDULE**Company Name: William H. Gordon Associates, Inc.Address: 301 North Mildred St., Suite 1Charles Town, WV 25414

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	60	2-Man Surveying Crew (per hour)	\$110.00	\$ 6,600.00
2.0	20	3-Man Surveying Crew (per hour)	\$135.00	\$ 2,700.00
3.0	50	Aerial Photograph Production (per sheet)	\$31.00	\$ 1,550.00
4.0		Topographic Mapping from Aerial Photography (per acre)		
		(List only one rate for each category)		
	25	0-50 Acres	\$50.00	\$ 1,250.00
	75	51-100 Acres	\$40.00	\$ 3,000.00
	101	101 and Up Acres	\$35.00	\$ 3,535.00
5.0		Professional Rates (Listed Disciplines Only) (per hour)		
	80	Licensed Land Surveyor	\$110.00	\$ 8,800.00
	30	CAD Operator	\$75.00	\$ 2,250.00
	30	Draftsperson	\$75.00	\$ 2,250.00
	8	Secretary	\$35.00	\$ 280.00
	8	Word Processor	\$35.00	\$ 280.00
6.0		Travel and Per Diem		
	7	Per Diem (Rate/Person/Day)	\$139.00	\$ 973.00
TOTAL				\$ 33,468.00

*Quantities listed for bid evaluation purposes only.

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: William H. Gordon Associates, Inc.

Authorized Signature: _____

Date: 10/21/2008

4501 Daly Drive, Suite 200, Chantilly, VA 20151. 703.263.1900

44084 Riverside Parkway, Suite 100, Leesburg, VA 20176. 703.729.9009

301 North Mildred Street, Suite 1, Charles Town, WV 25414. 304.725.8456

24 West Piccadilly Street, Suite A, Winchester, VA 22601. 540.542.1737

4340 Prince William Parkway, Suite 101, Prince William, VA 22192. 703.580.0409