

# HRG

Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services

## West Virginia Department of Environmental Protection

*Request for Quotation  
Mapping Services for Northern Counties of West Virginia*

*January 31, 2012*



[ BUILDING RELATIONSHIPS.  
DESIGNING SOLUTIONS. ]

RECEIVED

2012 JAN 30 A 9:30

PLANNING DIVISION  
STATE OF WV



240 Scott Avenue, Suite 1  
Morgantown, WV 26508  
(304) 284-9222  
FAX (304) 284-9223  
www.hrg-inc.com

January 27, 2012

Guy Nisbet, Department of Administration  
Purchasing Division  
Building 15  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130

Re: Mapping Services for Northern Counties of WV  
Request for Quotation – DEP15704

Dear Mr. Nisbet:

Herbert, Rowland & Grubic, Inc. (HRG) is pleased to provide the West Virginia Department of Environmental Protection (DEP) with qualifications to provide professional land surveying services pertaining to your Mapping Services for Northern Counties of West Virginia as requested.

We have committed *three (3) teams* herein who are experienced in, among other things, boundary and topographic surveys related to natural gas development. Our firm's experience with natural gas development over the past four (4) years, coupled with our technology and specific work experience in the Northern Counties of West Virginia, will support our successful completion of DEP work directives.

Our field crews are versatile in use of both conventional surveying, as well as RTK and RTN GPS surveying, and office staff routinely prepares mapping in AutoCAD C3D. In addition to the three (3) teams dedicated to this contract, we have additional field and office resources within our 200+ employee firm, to adequately serve the DEP.

BAE Systems will support our efforts on this contract by providing aerial mapping from existing photography where available, as well as new photography acquisition when needed. They have significant experience in West Virginia and in fact completed statewide flight and mapping.

We are able to provide you with a *Certificate of Insurance* in accordance with your specified limits, upon award of this contract. We appreciate the opportunity to provide you with professional services in this capacity and look forward to working with you on this contract.

Approved by:

Very truly yours,

Robert C. Grubic, P.E.  
President

Herbert, Rowland & Grubic, Inc.

Timothy H. Kinder, PLS, License No. 1969  
Project Manager

THK/ss

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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  
**DEP15704**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**GUY NISBET**  
**304-558-8802**

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

**Herbert, Rowland & Grubic, Inc.**  
**240 Scott Avenue, Suite 1**  
**Morgantown, WV 26508**

SHIP TO

**ENVIRONMENTAL PROTECTION**  
**DEPARTMENT OF**  
**OFFICE OF AML&R**  
**601 57TH STREET SE**  
**CHARLESTON, WV**  
**25304**                      **304-926-0499**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: **01/31/2012**                      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-52		
<p><b>OPEN END CONTRACT</b></p> <p><b>MAPPING SERVICES FOR NORTHERN COUNTIES OF WV</b></p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS AND RECLAMATION IS SOLICITING BIDS FROM QUALIFIED VENDOR'S FOR A OPEN-END CONTRACT TO PROVIDE MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS AND CONDITIONS, BID REQUIREMENTS AND THE VENDOR'S SUBMITTED AND ACCEPTED BID SCHEDULE.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN &amp; CONSTRUCTION PROJECTS THROUGHOUT THE NORTHERN COUNTIES OF WEST VIRGINIA INDICATED HEREIN.</p> <p>INQUIRES:</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH THE CLOSE OF BUSINESS ON FRIDAY, JANUARY 13, 2012. QUESTIONS MAY BE SENT VIA: USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE THAT NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTION WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE <b>304.284.9222</b>	DATE <b>1-27-2012</b>
TITLE <b>Work Directive Manager</b>	FEIN <b>23-1609730</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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





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<p>ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>ADDRESS INQUIRIES TO:</p> <p>GUY NISBET            DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            2019 WASHINGTON STREET, EAST            CHARLESTON, WV. 25305            FAX: 304.558.4115            EMAIL: GUY.L.NISBET@WV.GOV</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON 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 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</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Jab Aka</i>	TELEPHONE <b>304.284.9222</b>	DATE <b>1-27-2012</b>
TITLE <b>Work Directive Manager</b>	FEIN <b>23-1609730</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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 304-558-8802

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P.O. BOX 200

**Herbert, Rowland & Grubic, Inc.**  
 240 Scott Avenue, Suite 1  
 Morgantown, WV 26508

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	(1) YEAR PERIODS.					
	<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 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, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p>					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304.284.9222	DATE 1-27-2012
TITLE Work Directive Manager	FEIN 23-1609730	ADDRESS CHANGES TO BE NOTED ABOVE

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VENDOR

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DATE PRINTED <b>12/22/2011</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **01/31/2012**                      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<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. 05/26/2009</p> <p>EXHIBIT 10</p> <p style="text-align: center;">REQUISITION NO.: DEP15704....</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> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <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</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]*                      TELEPHONE **304.284.9222**                      DATE **1-27-2012**

TITLE **Work Directive Manager**                      FEIN **23-1609730**                      ADDRESS CHANGES TO BE NOTED ABOVE

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**5**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
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VENDOR ROOM

**Herbert, Rowland & Grubic, Inc.  
 240 Scott Avenue, Suite 1  
 Morgantown, WV 26508**

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<p>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 style="text-align: center;"><i>Herbert H. Grubic</i>            .....            SIGNATURE  <b>Herbert, Rowland &amp; Grubic, Inc</b>            COMPANY            .....  <b>1-27-2012</b>            DATE</p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:            DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Herbert H. Grubic</i>	TELEPHONE <b>304.284.9222</b>	DATE <b>1-27-2012</b>
TITLE <b>Work Directive Manager</b>	FEIN <b>23-1609730</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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**6**

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**ENVIRONMENTAL PROTECTION  
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BID OPENING DATE: **01/31/2012** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130		
<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:-----GN-----</p> <p>RFQ. NO.:-----DEP15704-----</p> <p>BID OPENING DATE:-----01/31/2012-----</p> <p>BID OPENING TIME:-----1:30PM-----</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----304.284.9223-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----Timothy H. Kinder, P.L.S.-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John H. Kinder* TELEPHONE **304.284.9222** DATE **1-27-2012**

TITLE **Work Directive Manager** FEIN **23-1609730** ADDRESS CHANGES TO BE NOTED ABOVE

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



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### Request for Quotation

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**7**

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DEP15704 ***** TOTAL:						\$ <u>1,457,820.00</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE <b>304.284.9222</b>	DATE <b>1-27-2012</b>
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MAPPING SERVICES IN NORTHERN COUNTIES OF WEST VIRGINIA  
 OPEN-END CONTRACT  
 DEP15704  
 BID SCHEDULE

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

Item No.	Quantity	Description	Unit Price	Amount
1.0	700	2 - Man Surveying Crew (per hour)	\$120.00	\$ 84,000.00
2.0	225	3 - Man Surveying Crew (per hour)	\$150.00	\$ 33,750.00
3.0	280	Aerial Photograph Production (per sheet)	\$322.60	\$ 90,328.00
3a	1	Single line Aerial Photo and Analytics for under 100 acre site	\$3,517.00	\$ 3,517.00
		Over 100 acre site, a definitive boundary is needed for pricing		
4.0		Topographic Mapping from Aerial Photography (per acres)		
		(List only one rate for each category)		
	500	0 - 50 Acres (based on 12,500 acres (500_25 avg acre per site)	\$24.49	\$ 306,125.00
	280	51 - 100 Acres (based on 21,000 acres (280_75 avg acre per site)	\$15.04	\$ 315,840.00
	202	101 and up Acres (based on 40,400 acres (202_200 avg acre per site)	\$11.90	\$ 480,760.00
5.0		Professional Rates (Listed Disciplines Only) (per hour)		
	250	Licensed Land Surveyor	\$105.00	\$ 26,250.00
	1100	CAD Operator	\$70.00	\$ 77,000.00
	200	Draftsperson	\$70.00	\$ 14,000.00
	125	Secretary	\$50.00	\$ 6,250.00
	150	Word Processor	\$50.00	\$ 7,500.00
6.0		Travel and Per Diem		
	125	Per Diem (Rate/Person/Day)	\$100.00	\$ 12,500.00
		TOTAL		\$ 1,457,820.00



**Herbert, Rowland & Grubic, Inc.**  
**Engineering & Related Services**

[ BUILDING RELATIONSHIPS.  
DESIGNING SOLUTIONS. ]

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## SIMILAR PROJECTS COMPLETED

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Herbert, Rowland & Grubic has provided surveying services to numerous natural gas exploration & production companies throughout northern West Virginia, Eastern Ohio and Southwestern Pennsylvania. Our team member, BAE Systems, also has substantial experience mapping with the State of West Virginia. The topographic and boundary surveying experience, coupled with integration of aerial mapping on these projects, is very akin to the work directives anticipated under this West Virginia DEP open-end contract and our five (5) similar projects completed are as follows:

### **Well Pad Development – Marshall County, WV**

Performed deed research, boundary surveying and topographic surveying to support the preparation of required regulatory permitting including WV DOH Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of over 30 Marcellus Shale natural gas well pad sites.

### **Well Pad Development – Marshall County, Wetzel and Preston, WV**

Performed deed research, boundary surveying and topographic surveying to support the preparation of required regulatory permitting including WV DOH Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of nearly 10 Marcellus Shale natural gas well pad sites.

### **Well Pad Development – Wetzel County, WV**

Performed deed research, boundary surveying and topographic surveying to support the preparation of required regulatory permitting including WV DOH Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of nearly 10 Marcellus Shale natural gas well pad sites.

### **Well Pad Development – Preston and Barbour County, WV**

Performed deed research, boundary surveying and topographic surveying to support the preparation of required regulatory permitting including WV DOH Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of four Marcellus Shale natural gas well pad sites.

### **West Virginia Statewide Mapping**

BAE Systems was awarded and delivered the *Homeland Security E911 and Advanced Photogrammetric Mapping Project* for State of West Virginia. This project consisted of large scale, high resolution, color digital orthophotos and a Statewide GIS Geo-database of limited and selected planimetric features covering the entire 25,000 square miles of the State. The project specifically consisted of 1"=400' design scale mapping supporting production of 2' pixel resolution imagery. BAE Systems also developed a statewide Digital Elevation Model and a detailed digital planimetric database of road centerlines, housing and hydrographic features.



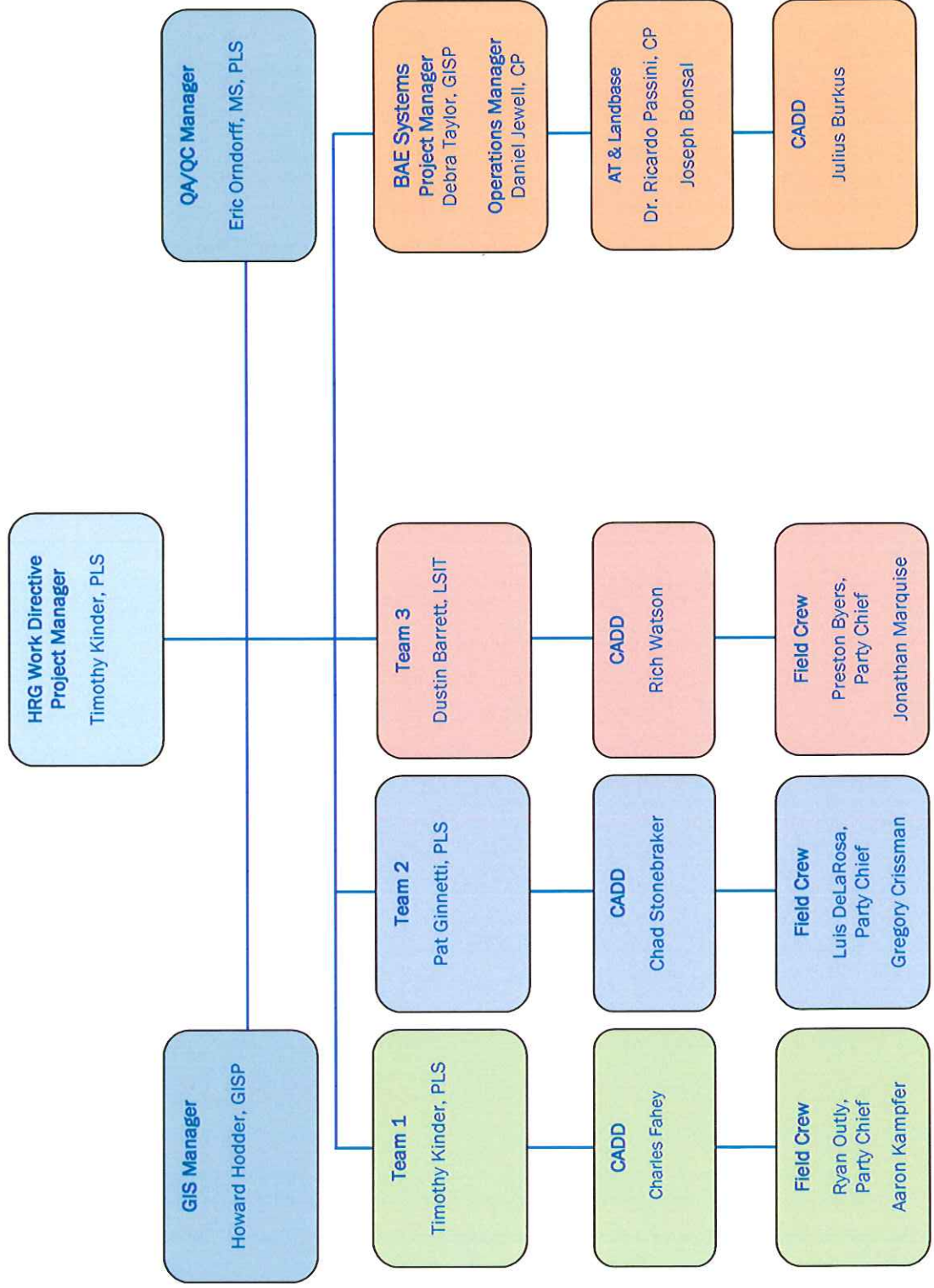
# CURRENT PROJECT EXPERIENCE

The following list represents additional project experience:

Project Name	County
Mackey-Wolfe Pad	Barbour
Frank Unger Pad	Barbour
Victory Prospect VIC-86	Marshall
Franklin Heller Well Pad	Marshall
Crawford 2H Well Pad	Marshall
Francis 1H Well Pad	Marshall
Connor 1H Well Pad	Marshall
Berger 1H Well Pad	Marshall
Longworth #1H Well Pad	Marshall
Kittle	Marshall
Yoho	Marshall
Roth Well Pad	Marshall
Morris Well Pad	Marshall
Steed Impoundment	Marshall
Mason Impoundment	Marshall
Chaplin Impoundment	Marshall
Hill Impoundment	Marshall
Mary Matheny VPN	Preston
Wesley Wolfe Pad	Preston
Mason Colin B Pad - Wetzel - West Virgin	Wetzel
Leasure B Pad - Wetzel - West Virginia	Wetzel
Leasure C Pad - Wetzel - West Virginia	Wetzel
Mills Wetzel Pad 3 - Wetzel - West Virgi	Wetzel
Leasure D Pad - Wetzel - West Virginia	Wetzel

# Herbert, Rowland & Grubic, Inc. Survey Service Group Organization Chart

## West Virginia Department of Environmental Protection Mapping Services for Northern Counties of West Virginia







**TIMOTHY H. KINDER, P.L.S.**  
Project Manager/Survey Team Leader

Mr. Kinder is a survey regional service group manager with Herbert, Rowland & Grubic, Inc. (HRG). In this capacity, he is responsible for project proposals, project budgets, supervising and reviewing production of survey work and mapping products. This includes topographic and boundary surveys, construction stakeout, and aerial ground control surveys. As a licensed Professional Land Surveyor in West Virginia, Connecticut and Rhode Island, Mr. Kinder has a breadth of knowledge in survey procedures on a variety of projects.

**PROJECT EXPERIENCE**

**Natural Gas Well Pad Development, Marshall County, West Virginia** – Project Survey Manager responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston, Wetzel, Monongalia, Harrison, Barbour and Taylor Counties, West Virginia** – Project Survey Manager responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** – Project Survey Manager responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Barbour Counties, West Virginia** – Project Survey Manager responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**BOUNDARY/TOPOGRAPHIC SURVEYS**

**Penn Hills High School Athletic Complex, Municipality of Penn Hills, Allegheny County, PA** – Role: Surveyor. Responsible for supervising field survey to support topographic mapping for site improvements to the existing Athletic Complex. Project entailed the compilation of field survey data and utility plans and reviewed topographic mapping and final plan.

**EDUCATION:**

B.A., Marshall University, 2009

A.S., Land Surveying, Glenville State College, 1994

**LICENSE(S):**

Professional Land Surveyor, CT  
Professional Land Surveyor, RI  
Professional Land Surveyor, WV  
–License No.: 1969

**CERTIFICATION(S):**

Aggregate Compaction  
Certification, West Virginia  
Department of Transportation



**ERIC M. ORNDORFF, P.L.S.**  
QA/QC MANAGER

Mr. Orndorff is the Director of Survey Services with Herbert, Rowland & Grubic, Inc. (HRG). He is responsible for developing standards and maintaining quality throughout the Survey Group. He prepares and advises on scopes of work and budgets for project proposals, recruits and mentors field and office staff, as well as supervises and reviews production of survey work and mapping deliverables.

This includes topographic and boundary surveys, construction stakeout, aerial ground control surveys as well as data collection for the development of municipal Geographic Information Systems (GIS). He has extensive experience with topographic, boundary and construction surveying to support natural gas development as well as for large-scale water and sewer system projects.;

### PROJECT EXPERIENCE

**Natural Gas Well Pad Development, Statewide, Pennsylvania** – Project Surveyor responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including PennDOT Highway Occupancy Permits, ESCGP-1 plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Pipeline Development, Susquehanna and Bradford Counties, Pennsylvania** – Project Manager responsible for overseeing topographic/boundary surveying and design for ESCGP-1 submission for an *eight-mile* natural gas pipeline corridor to support collection/transmission of natural gas produced from Marcellus Shale wells. The project also included surveying and preparation for subdivision and land development plans for a compressor station as well as 5-months of construction stakeout and as-built surveys

**Natural Gas Pipeline Development, Clearfield County, Pennsylvania** – Project Surveyor responsible overseeing topographic and right-of-way surveying in support of the design and ESCGP-1 submission for a *seventeen* mile natural gas pipeline corridor for the collection/transmission of natural gas produced from Marcellus Shale wells. Determined several miles of Interstate and state route right-of-ways, which affected the design route.

**PAMAP Program QA Surveys for Dewberry, Various Location, PA** – Role: Project Manager. Responsible for supervising the field surveying and delivery of approximately 1,400 quality assurance (QA) points throughout Pennsylvania. This project served to provide horizontal QA of 2005-2007 PAMAP Program orthophotography as well as vertical QA of LiDAR data, covering nearly three-fourths of the state. Survey staff was responsible for selecting all QA point to be surveyed.

**Pinnacle Mapping (Purple Line), Prince George and Montgomery Counties, MD** – Role: Project Manager. Responsible for supervising aerial ground control survey of approximately 160 photo-identifiable points within a 17 mile proposed

### EDUCATION:

M.S., Surveying and Mapping,  
University of Florida, 2002

B.S., Geography, The  
Pennsylvania State University,  
1996

### LICENSE(S):

Professional Land Surveyor, PA  
Professional Land Surveyor,  
MD





**HOWARD S. HODDER, GISP**  
GIS Manager

Mr. Hodder is a regional service group manager with Herbert, Rowland & Grubic, Inc. (HRG). He is responsible for multiple tasks involved in the development of geographic information systems. Such activities include field data collection, internal data processing and editing, project development, final map and presentation creation, and client support. Mr. Hodder also creates and manipulates external databases that contain the information needed to analyze and design the GIS.

### PROJECT EXPERIENCE

**GIS Mapping Systems, Milton Hershey School, Hershey, PA** – Role: Project Manager. Responsible for the coordination and administration of the development of a campus-wide GIS mapping system for the Milton Hershey School consisting of an area spanning over 9500+ acres. Project entailed the coordination, development and implementation of 1 inch = 50 foot scale planimetric base mapping and color orthophotography with ESRI's enterprise level GISserver/SDE software. This data will be utilized by crisis and facility management personnel as well as the School's students in the classroom in the future. Monumentation was established and control coordinates were published with OPUS allowing future developments on campus to make use of a required reference projection. Customized WebGIS interface/applications were developed to allow crisis management and facilities management personnel simplified access to important files, reports and exhibits (i.e., evacuation plans, building schematics, etc.) without the need for standalone GIS software or extensive training.

**National Guard Training Facility, Sea Girt, NJ** – Role: Project Manager. Responsible for the administration of the project including the coordination of photogrammetric services for base mapping development. Project entailed base mapping development for the entire training center property and included the collection of all above and below ground utility infrastructures such features as gas, electric, water, sanitary sewer and storm water. RTK GPS was utilized to expedite the field data collection without sacrificing precisions and accuracy of the data. HRG was a sub to Strategic Concepts in Engineering, LTD who was a sub to an international firm, Jacobs Engineering.

**GIS Utility Geodatabase Development and Data Collection, City of Aberdeen, Harford County, MD** – Role: Project Manager. Responsible for the coordination and administration of the development and population of a customized ESRI based utility geodatabase for the City of Aberdeen. Project entailed the development of a geodatabase schematic outlining the structure and relationships of the customized geodatabase, QA/QC plan, data migration plan and data maintenance plan. It also utilized RTK GPS surveying techniques for the field data collection of approximately 11,000 water, sanitary sewer and storm water utility features owned and maintained by the City. Feature attribute information was also field collected and input into the customized GIS utility geodatabase by utilizing ESRI's ArcGIS software in the field on Panasonic Toughbook mobile PCs.

### EDUCATION:

MGIS, Master of Geographic Information Systems, The Pennsylvania State University, 2007

B.A., Geography and Environmental Planning, Bloomsburg University, 1998

GIS Certificate, The Pennsylvania State University

### CERTIFICATION(S):

Certified Geographic Information Systems Professional



## CHARLES FAHEY

### CADD Technician II

Mr. Fahey is a CADD technician with Herbert, Rowland & Grubic, Inc. (HRG). His responsibilities include compiling field survey, boundary and topographic information for preparation of final basemaps and survey plans. He is proficient with AutoCAD 2008 LDT Suite, Civil3D and Microstation software for basemap and construction layout plan preparation. Prior to joining HRG, Mr. Fahey worked as a CADD Technician designer and Survey Technician for 5 years.

#### PROJECT EXPERIENCE

**Natural Gas Well Pad Development, Marshall County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston and Wetzel Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Taylor Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

#### RELATED EXPERIENCE

From 2009 to 2010, Mr. Fahey was a Survey Technician with KS Engineers in Newark, New Jersey providing technical expertise by manipulating field data using AutoCAD 2008 and MicroStation. He prepared technical drawings, some of which were for New Jersey Department of Transportation, New York Department of Transportation and the Port Authority of New York. Other tasks included deed research, contour information, details and elevations.

From 2008 to 2009, Mr. Fahey was a Lead Draftsman with Aeropanel in Boonton, New Jersey. He assisted in the design development drawings using

#### EDUCATION:

A.A.S., Fine Arts, Hudson Valley  
Community College, 2005





**RYAN T. OUTLY**  
Party Chief

Mr. Outly is a party chief with Herbert, Rowland & Grubic, Inc. (HRG) responsible for compiling field survey boundary and topographic information and preparing final base maps and surveys plans.

#### **PROJECT EXPERIENCE**

**Natural Gas Well Pad Development, Marshall County, West Virginia** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston, Wetzel, Monongalia, Harrison, Barbour and Taylor Counties, West Virginia** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Taylor Counties, West Virginia** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

#### **RELATED EXPERIENCE**

In 2010, Mr. Outly worked with Tri-County Engineering located in Greensburg, Pennsylvania, wherein he served as a survey technician and party chief. Projects completed include property locations, gas well unit boundary locations, gas pipeline stakeouts, well pad stakeouts, wetland locations, and well pad as-builts. Clients included Range Resources, Rex Energy, XTO Energy, and Samson. Responsible for cross sections of all stream and road crossings, preliminary line stakeout and planning, and final line and right of way stakeout.

From 2004 to 2010, Mr. Outly worked with GAI Consultants in Homestead, Pennsylvania as a survey technician. Work included topography, level work, construction stakeout, ALTA work, property locations, monument setting, river soundings, setting and up keeping aerial targets. Also performed basic CAD operations.

#### **EDUCATION:**

Studies, Community College of Allegheny County, 2004



**PATRICK T. GINETTI, P.E., P.S.**  
Survey Team Leader

Mr. Ginnetti is a survey project manager with Herbert, Rowland & Grubic, Inc. (HRG). Mr. Ginnetti's responsibilities include project proposals, project budgets, supervising and reviewing production of survey work and mapping products. This includes topographic and boundary surveys, construction stakeout, and aerial ground control surveys.

**PROJECT EXPERIENCE**

**Mahoning Land Fill Surveying Services, Mahoning County, OH-** Role: Project Manager. Responsible for providing on-call surveying services for quarterly airspace topographic surveys, slope staking, volume calculations cell construction, methane piping system, and boundary survey work.

**Well Pad Surveying Services, Various Locations throughout Ohio** - Role: Project Manager. Responsible for survey crew coordination of site topographic surveys, boundary survey work, courthouse research, well plats, and client relations. Also responsible for engineering review of site grading plans, erosion and sedimentation controls, details, quantity checks, and volume calculations for earthwork and materials.

**Valley View Connector,** Role: Project Surveyor. Responsible for providing topographic survey work, boundary and right of way determination and final review of right of way plans.

**Trilith Gas Plant,** Role: Project Surveyor. Responsible for providing topographic survey work, boundary and right of way determination, utility coordinator and project management.

**Meter Connection Surveying Services, Borough of Evans City, Butler County, PA** - Role: Surveyor. Responsible for easement drawings and legal descriptions, crew coordination, courthouse research, and boundary survey.

**Flood Elevation Surveying Services, Westmoreland County, PA** - Role: Surveyor. Responsible for performance and reviewing FEMA elevation surveys, LOMA certifications, and datasheet research.

**Injection Well Surveying Services, Mahoning County, OH** - Role: Surveyor. Responsible for Ohio Department of Natural Resources research for water wells, courthouse research, project reconnaissance, GPS field work, data processing, and survey maps.

**RELATED EXPERIENCE**

Mr. Ginnetti is a part-time Instructor in the Civil Engineering Department at Youngstown State University in Youngstown, Ohio educating a Basic Land Surveying class as part of the Science and Engineering Curriculum.

In 2011 Mr. Ginnetti was a Chief of Survey/Project Engineer with Morris Knowles & Associates in Delmont, Pennsylvania responsible for all surveying operations including employee and project management in land development, well pad design, commercial site design and municipal engineering projects.

**EDUCATION:**

B.E., Civil and Environmental Engineering, Youngstown State University, 1995

Certificate of Land Surveying, Columbus State Community College, 1997

**LICENSE(S):**

Professional Engineer, PA  
Professional Engineer, OH  
Professional Land Surveyor, PA  
Professional Land Surveyor, OH





## CHAD STONEBRAKER CADD Technician II

Mr. Stonebraker is a CADD technician with Herbert, Rowland & Grubic, Inc. (HRG). His responsibilities include compiling field survey, boundary and topographic information for preparation of final basemaps and survey plans. He is proficient with AutoCAD Civil3D 2011 and Microstation software for basemap and construction layout plan preparation. Prior to joining HRG, Mr. Stonebraker worked as a CADD Technician designer for 11 years.

### PROJECT EXPERIENCE

**Natural Gas Well Pad Development, Marshall County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston and Wetzel Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Taylor Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

### RELATED EXPERIENCE

From 2000 to 2011, Mr. Stonebraker was a Senior Technician employed by Gannett Fleming. His responsibilities included site, bridge, municipal and highway design.

From 1999 to 2000, Mr. Stonebraker was a CADD Technical employed by Hanolon Electric Company. Using AutoCADD 2000 Mr. Stonebraker was responsible for revising drawings.

### EDUCATION:

A.A., Computer Aided Drafting,  
Pittsburgh Technical Institute,  
2000

### CERTIFICATION(S):

Graphic Communication,  
Preston Vocational Center



**DUSTIN M. BARRETT**  
Survey Team Leader

Mr. Barrett is a survey technician with Herbert, Rowland & Grubic, Inc. (HRG) responsible for compiling field survey boundary and topographic information and preparing final base maps and surveys plans. He is proficient with AutoCAD 2006 Land Development Desktop suite of software for base map and construction layout preparation.

**PROJECT EXPERIENCE**

**Natural Gas Well Pad Development, Marshall County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston and Wetzel Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Taylor Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Statewide, Pennsylvania** - CADD Technician responsible for compiling field data and preparing base map to support the preparation of required regulatory permitting including PennDOT Highway Occupancy Permits, ESCGP-1 plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Mineral Resource Title Mapping Development, Greene and Washington Counties, Pennsylvania** - Survey Crew Chief responsible for boundary surveying to support the preparation of GIS grade title line mapping of surface property, minerals and natural gas rights, title and interest in support of the cataloging and quantifying of an entities holdings in specific natural resource development areas.

**EDUCATION:**

A.S., Surveying Technology Program, The Pennsylvania State University, 2003

**CERTIFICATION(S):**

Boating Safety Education, Pennsylvania Fish & Boat Commission

CPR, Eichelbergers, Inc.

OSHA Bloodborne Pathogens, Eichelbergers, Inc.

OSHA First Aid, Eichelbergers, Inc.

Roadway Worker Protection Contractor Safety, CSX Public Safety Coordination Center





**RICHARD M. WATSON**  
CADD Technician I

Mr. Watson is a CADD technician with Herbert, Rowland & Grubic, Inc. (HRG) responsible for developing and drafting plans that include construction, erosion and sediment control, right-of-way, traffic control, traffic signal design, Highway Occupancy Permits, property exhibits, and other design drawings. He also assists other service groups within HRG, helping with developing and drafting conceptual GIS sketch plans, ESCGP-1, construction plans and other design drawings for the Oil and Gas Service Group and developing and drafting plans for the Land Development Service Group.

**PROJECT EXPERIENCE**

**Natural Gas Well Pad Development, Marshall County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Marshall, Preston and Wetzel Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Wetzel County, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Preston and Taylor Counties, West Virginia** - CADD Technician responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Erosion and Sedimentation Control General Permit (ESCGP-1), Pine Township/Huston Township, Clearfield County, PA** – Role: CADD Technician. Responsible for creating existing topography and base mapping from various GIS resources for conceptual design of a 7.5 mile natural gas pipeline, incorporating hard field survey into GIS base mapping, creating existing topography and construction parameters for 3D pipeline construction model and further coordination with Transportation Service Group to complete State Highway Occupancy Permits for roadway crossings. Project entailed detailed drawings and design for ESCGP-1 of 7.5 miles of natural gas pipeline, six

**EDUCATION:**

A.S., Computer Aided Drafting,  
Pittsburgh Technical Institute,  
2006

B.S., Business Administration,  
Robert Morris College, 2001



**PRESTON L. BYERS, P.L.S.**  
Party Chief

Mr. Byers is a party chief with Herbert, Rowland & Grubic, Inc. (HRG). He supervises client management and marketing, survey/land development drawings/base maps, research of deeds/records, and oversees providing other service groups with technical support as a survey crew chief. Mr. Byers has a Pennsylvania Professional Land Surveyors License and 22 years of surveying experience, including topography compilation, property boundaries, construction stakeout, aerial ground control, and engineering related surveys. He also assists in environmental related projects. Mr. Byers is a disabled veteran and military retiree with over 29 years of military experience.

**PROJECT EXPERIENCE**

**Natural Gas Well Pad Development, Marshall County, West Virginia** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including WV DOH Highway Encroachment Permits and Maintenance Agreements, Erosion and Sediment Control plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Natural Gas Well Pad Development, Statewide, Pennsylvania** - Survey Crew Chief responsible for boundary and topographic surveying to support the preparation of required regulatory permitting including PennDOT Highway Occupancy Permits, ESCGP-1 plans and Well Location Plats for the development of Marcellus Shale natural gas well pad sites.

**Mineral Resource Title Mapping Development, Greene and Washington Counties, Pennsylvania** - Survey Crew Chief responsible for boundary surveying to support the preparation of GIS grade title line mapping of surface property, minerals and natural gas rights, title and interest in support of the cataloging and quantifying of an entities holdings in specific natural resource development areas.

**BOUNDARY SURVEYS**

**ALTA Land Title Survey for the Nature Conservancy (TNC), Cumberland County, PA** - Role: Survey Crew Chief. Responsible for performing control surveying, field-run traverse and boundary surveying for a 70-acre tract of land. Project entailed performing record property research and created a deed mosaic of subject and adjoining tracts to be used during field reconnaissance. Set missing property corners per property boundary resolution. Performed field reconnaissance and survey of boundary evidence and encroachments. Surveyed vernal pools as identified by TNC staff. This property is to be used as an interpretive area preserving critical vernal pool habitats adjacent to King's Gap State Park.

**Tuscarora Land Company, Berkley Springs, WV** - Role: Survey Crew Chief. Responsible for a 350-acre boundary and road stakeout.

**EDUCATION:**

M.S., Geo-Environmental Studies, Shippensburg University, 2001

B.S., Geo-Environmental Studies, Shippensburg University, 1998

A.A., General Studies, Hagerstown Junior College, 1992

**LICENSE(S):**

Professional Land Surveyor, PA

**CERTIFICATION(S):**

Boating Safety Education, Pennsylvania Fish & Boat Commission

CPR, Eichelbergers, Inc.

Disabled American Veteran

Level III Transportation Engineering Technology Highway Construction, National Institute for Certification in Engineering Technologies

OSHA 40-Hour HAZWOPER

OSHA Bloodborne Pathogens, Eichelbergers, Inc.

OSHA First Aid, Eichelbergers, Inc.



**Debra A. Taylor, GISP**  
Senior Project Manager**Professional Experience:**

Debra A. Taylor has over 22 years of experience in the photogrammetric and GIS fields. Since joining BAE Systems in 1989, Ms. Taylor has been provided positions with progressive levels of responsibilities. Ms. Taylor began her career as a photogrammetric technician providing stereo compilation and digital editing services before becoming the GIS Production Manager for a wide range of commercial customers from private companies to the local, state, and federal sectors. She currently serves as the Senior Project Manager where her responsibilities are: determining and implementing the most efficient, current and effective approaches to achieve project and program objectives.

Specific duties for this position included:

- ◆ Project /personnel management
- ◆ Customer relations and communications
- ◆ Review and coordination of project requirements
- ◆ In-house and offsite customer technical exchange meeting coordination
- ◆ Subcontractor management, coordination, training, and quality assurance
- ◆ Scheduling tasks
- ◆ Final project quality assurance
- ◆ Support General Manager and Business Development, grow the business
- ◆ Support contract status reviews and technical bid reviews
- ◆ GIS consulting and development services

**Project Experience:**

Ms. Taylor has provided Project Management, GIS and photogrammetric mapping services on many of the firm's major projects including:

- ◆ West Virginia Statewide Mapping Program
- ◆ Pennsylvania Statewide Orthophoto & LiDAR Program (PAMAP)
- ◆ Virginia Statewide Mapping Program
- ◆ New Jersey Statewide Ortho Program
- ◆ New Jersey Department of Transportation (Open-End Contract)
- ◆ Pennsylvania Department of Transportation (Open End Contract)
- ◆ Estuary Enhancement Program – DE/NJ
- ◆ Cities of Newark, Union & Burlington Co., NJ
- ◆ City of Philadelphia, PA
- ◆ New Jersey Tidelands - GIS consulting and development services

**Years of Experience**

22

**Education**

ISO Internal Auditor 9001:2008

Earned Value Mgt. Process

**Professional Affiliations**

ASPRS Member Since 2007

GISP 2008

Project Management Institute  
2009**Computer Skills**

ArcGIS

AutoCAD

Microstation

**Professional Experience:**

Daniel Jewell has 37 years of experience in the photogrammetric field. Specializing in ZI Imaging, SOCET SET®, and Program System BLUH mapping software. Since 2003 Mr. Jewell has served as Commercial Operations Manager for BAE SYSTEMS, he manages all phases of project/production including: operation of the equipment, maintenance of the operating system, project planning, estimating, data management, and softcopy analytical aerotriangulation, stereo compilation, LiDAR and GIS.

As a Lead Stereo Compiler, Mr. Jewell compiled planimetric and topographic features from aerial photography in a variety of scales. Compilation includes both vector data and DEM compilation in support of contour generation and/or digital orthophoto production.

Mr. Jewell has served as the Lead Analytics Technician working with Airborne GPS/IMU and conventional aerotriangulation techniques. He was instrumental in designing and implementing BAE SYSTEMS' 2Go software which geo-references frame or satellite imagery from existing digital elevations models and orthophotography.

Mr. Jewell has extensive experience in the following areas:

- ◆ Experienced in all aspects of photogrammetry
- ◆ Experienced in multiple systems operations
- ◆ Experienced in federal data standards and criteria
- ◆ Specialized experience in softcopy photogrammetry
- ◆ Specialized experienced in LiDAR production

**Project Experience:**

Since joining BAE SYSTEMS in 1991, Mr. Jewell has provided Program Management, Analytical Aerotriangulation, and photogrammetric mapping services on many of the firm's major projects including:

- ◆ West Virginia Statewide Mapping Program
- ◆ Pennsylvania Statewide Orthophoto & LiDAR Program (PAMAP)
- ◆ State of New Jersey Ortho Program
- ◆ Virginia Statewide Mapping Program
- ◆ New Jersey Department of Transportation (Open-End Contract)
- ◆ Pennsylvania Department of Transportation (Open-End Contract)
- ◆ Estuary Enhancement Program – DE/NJ
- ◆ Cities of Newark, Union and Burlington Co. NJ
- ◆ City of Philadelphia, PA
- ◆ Port Authority of NY & NJ – Port Newark, Newark Airport, Path Rail Station

**Years of Experience**

37

**Training**

Leica Users Group Training / San Diego, CA

BLUH Direct Sensor Orientation / Mt. Laurel, NJ

Numerous LiDAR workshops and training sessions

Earned Value Mgt. Process

**Affiliations and Registrations**

Member ASPRS

Certified Photogrammetrist  
#1333**Computer and Equipment Skills**

ZI Isat Softcopy Workstation

SOCET SET® Softcopy Workstation

Wild Pug and B-8

Kern PG-2 and PMG-2

Kelsh-type Direct Projection Plotters

Zeiss P1 and P3 Analytic Stereo Plotters



**Ricardo Passini BSc., MSc., PhD.(Dr. Ing.),CP**  
*Director of Aerial Triangulation Department*

**Professional Experience:**

In July of 1997 Dr. Passini was appointed as the Director of the Aerial Triangulation Department of BAE SYSTEMS. His duties encompass spatial - digital - aero-triangulation, aerial image acquisition management, research and development and occasionally international marketing. Within the realm of aero-triangulation he introduced, with success, new systems and software for universal data capture (i.e., data capture in analog, analytical and digital photogrammetric instruments), data reduction, computation and automatic model setup on the above type of instruments after adjustment. He implemented the simultaneous adjustment of photogrammetric image data, ground control information, airborne Real Time Kinematics GPS data, and inertial navigation data, Direct Sensor Orientation and Integrated Sensor Orientation. At present Dr. Passini is Senior Geospatial (R&D) Specialist for BAE SYSTEMS. As such he is in charge of special projects that includes the use and application of high technology sensors, data sensor's integration, automatic and semi-automatic segmentation and classification of Airborne & Mobile Laser Scanners, sensors data integration and fusion, mapping using Interferometric synthetic aperture radar, Satellite Mapping (push-broom scanners and others), automatic Filtering of Digital Height Models and related software development – customization, Direct and Integrated sensors orientation, others.

**Project Experience:**

During his years in BAE SYSTEMS Dr. Passini has Managed and been involved with several photogrammetric, remote sensing and mapping projects including:

- ◆ West Virginia Statewide Mapping Program
- ◆ Pennsylvania Statewide Ortho & LiDAR Program (PAMAP)
- ◆ State of New Jersey Ortho Program
- ◆ Virginia Statewide Mapping Program
- ◆ New Jersey Department of Transportation (Open-End Contract)
- ◆ Pennsylvania Department of Transportation (Open-End Contract)
- ◆ Estuary Enhancement Program – DE/NJ
- ◆ Cities of Newark, Union, and Burlington Co. NJ

**Years of Experience**

37

**Education**

PhD (Dr. Ing.) / Photogrammetry and Remote Sensing/University of Hannover-Germany / 1985

MS/Photogrammetry/International Institute for Aerospace Survey and Earth Sciences, Netherlands/ 1978

MS/Geodesy and Geophysics/ University of Buenos Aires/1972

BS/Land Surveying /University of Buenos Aires/1970

**Professional Affiliations and Registrations**

Certified Photogrammetrist (ASPRS #1292)

International Society for Photogrammetry and Remote Sensing / Member

Argentine Society for Photogrammetry and Related Sciences / Member

**Presentations and Publications**

Dr. Passini has presented over 70 papers at international scientific events. Topics include: photogrammetry, digital image processing of satellite information, LiDAR, Digital Cameras-Sensors, feature extraction.

**Academic Activities**

Adjunct Professor and Associate Professor / Photogrammetry / University of Buenos Aires

Assistant to the Chair of Geodesy / Engineering / University of Buenos Aires

Part-Time Professor/ Photogrammetry / Technical High School of Engineering for the Argentine Army

Invited Professor / Photogrammetry / Leibnitz - Hannover University/Germany

**Other**

Dr. Passini is fluent in English, Spanish, French, Italian, Portuguese, and German

**Professional Experience:**

As the director of the Stereo Compilation Department, Mr. Bonsal oversees stereo compilation, day-to-day operations and planning in the department. Mr. Bonsal has 27 years of experience as a stereo compiler and has managed both large and small projects for the last 14 years. As the Stereo Compilation Production Manager of BAE SYSTEMS Geospatial Products and Solutions Division, Mr. Bonsal is also responsible for managing all aspects of technical production for all data extraction projects.

Mr. Bonsal is responsible for overseeing BAE SYSTEMS Mount Laurel, NJ stereo compilation production staff, and implementing and conducting hardware and software training initiatives. He ensures through client interaction a timely project, maintaining the budget and quality standards integral to each project.

Mr. Bonsal is skilled in the following:

- ◆ 27 years experience in photogrammetric mapping and production
- ◆ 14 years experience in photogrammetric project management
- ◆ Contract/RFP review and planning
- ◆ Estimating/procedures design for Compilation
- ◆ QC/QA lead for Photogrammetric applications
- ◆ Defining pilot project areas and managing pilot project production
- ◆ Management of production and delivery schedules.
- ◆ QA/QC coordination efforts

**Project Experience:**

Mr. Bonsal has been BAE SYSTEMS's Photogrammetric lead on a variety of large projects. His duties included coordinating project deadlines with the digital edit and orthophotography departments, quality control data integrity, and project specifications with the marketing department.

Mr. Bonsal managed and coordinated the following:

- ◆ State of West Virginia Statewide Mapping Program
- ◆ Pennsylvania Statewide Orthophoto & LiDAR Program (PAMAP)
- ◆ Virginia Statewide Mapping Program
- ◆ New Jersey Statewide Mapping Program
- ◆ New Jersey Department of Transportation (Open-End Contract)
- ◆ Pennsylvania Department of Transportation (Open-End Contract)
- ◆ Pennsylvania Turnpike Commission (Open-End Contract)
- ◆ Estuary Enhancement Program – DE/NJ

**Years of Experience**

27

**Education**

Glassboro State College/ UNIX  
Fundamentals/Camden County  
College

Member ASPRS since 2004



**Professional Experience:**

Since joining BAE SYSTEMS in 1988, Mr. Burkus has been a lead cartographic / GIS technician for many of BAE SYSTEMS major projects. In this role, he is responsible for:

- ◆ Revising and correcting raw data
- ◆ Formatting map sheets
- ◆ Project coordination both internally among BAE SYSTEMS departments as well as with external clients and subcontractors
- ◆ Development of QA/QC processes and procedures
- ◆ Delegating project responsibilities among BAE SYSTEMS internal cartographic technical staff

As one of BAE SYSTEMS senior technicians, Mr. Burkus has also written and tested batch files to expedite the production process and is responsible for training new team members in the use of software, hardware, and departmental procedures.

Mr. Burkus' experience highlights include:

- ◆ 23 years experience in mapping production
- ◆ 18 years experience executing QA/QC procedures
- ◆ Specialized experience in digital graphics editing
- ◆ Leads digital edit production teams
- ◆ Experience in all aspects of digital editing
- ◆ Experienced in multiple software programs
- ◆ Experienced in utility projects
- ◆ Experienced in LiDAR projects

**Project Experience:**

Mr. Burkus has more than 18 years of experience in coordinating large-scale and small-scale projects. Mr. Burkus has been responsible for the successful completion of the following utility projects:

- ◆ State of West Virginia Statewide Mapping Program
- ◆ Commonwealth of Pennsylvania Statewide Mapping Program (PAMAP)
- ◆ Virginia Statewide Mapping Program
- ◆ State of New Jersey Ortho Mapping Program
- ◆ Lehigh County Authority, PA
- ◆ North Penn Water Authority, PA
- ◆ City of Tamarac, FL
- ◆ City of Riviera Beach
- ◆ NJDOT Open End

**Years of Experience**

23

**Education**

Certificate of Completion /  
Mechanical Drafting and Design /  
Lincoln Technical Institute / 1987

**Computer Skills**

- Photoshop
- ArcGIS
- ArcView
- MicroStation v.7 - v.8
- MicroStation InRoads v8.2
- AutoCAD v.12 - V2004 Map
- KORK Digital Mapping Software
- Terrascan/Terramodel
- Geocue
- Socet Set / Socet Set GXP

**Security Clearance**

US Department of Defense -  
Secret



**Herbert, Rowland & Grubic, Inc.**  
**Engineering & Related Services**

[ BUILDING RELATIONSHIPS.  
 DESIGNING SOLUTIONS. ]

## EQUIPMENT LIST

<b>Survey Equipment</b>	<b>Quantity</b>
Trimble R8 GNSS Multi Frequency Geodetic GPS Receivers RTK Base or Rover Capable	14
Trimble 5800 Dual Frequency Geodetic GPS Receivers RTK Base or Rover Capable	3
Trimble 4700 Series Dual Frequency Geodetic GPS Receivers with Micro-centered Antenna and Groundplane – Real Time Kinematic (RTK) Base Configuration	2
Trimble 4800 Series Dual Frequency Geodetic GPS Receivers with Internal Antenna – Real Time Kinematic (RTK) Rover Configuration	4
Pacific Crest TDL 450H RTK Radio Transmitter	1
Pacific Crest HPB 450 RTK Radio Transmitter	4
Pacific Crest Trimmark III RTK Radio Transmitter	1
Pacific Crest Trimmark IIE RTK Radio Transmitters	2
Verizon Motorola Droids (Bluetooth / Mobile Hotspot) with KeyNet VRS subscription	9
Topcon GTS-223 Electronic Total Stations	4
Topcon GTS-233W Electronic Total Station	1
Topcon GPT 3003W Electronic Total Stations	3
Topcon GPT-3202 Electronic Total Station	1
Trimble 5605-DR200 Servo-Driven, Direct Reflex Total Station	1
TDS Ranger Data Collectors	4
Trimble TSCE Data Collector	1
Trimble TSC2 Data Collectors	7
Trimble TSC3 Data Collectors	7
Trimble TSC1 Data Collectors	3
Seafloor Systems Hydrolite Hydrographic Surveying System	1
Panasonic CF-18 Toughbook Mobile PCs with Verizon Internet Access	3
Field Laptop Computers	9



Rev. 09/08

## 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:**  
 N/A 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,  
 N/A 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,  
 N/A 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:**  
 N/A 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:**  
 N/A 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:**  
 N/A 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:**  
 N/A 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:**  
 N/A 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: Herbert, Rowland & Grubic, Inc. Signed: Bruce A. Yegor  
 Date: 1-27-2012 Title: VP/CEO

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



STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**West Virginia Code §5A-3-10a states:** 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.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

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

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: HERBERT, ROWLAND, + GRUBIC, INC.

Authorized Signature: Bruce A. Yung Date: 1/27/12

State of PENNSYLVANIA

County of DAUPHIN, to-wit:

Taken, subscribed, and sworn to before me this 27 day of JANUARY, 2012.

My Commission expires 3/31/13, 20    .

**AFFIX SEAL HERE**

NOTARY PUBLIC Paula A. Kulp

