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Engineers · Architects · Planners 801 Corporate Drive • Lexington, KY 40 859-223-3999 • www.grwinc.com

RFQ# DEFK11028
State of West Virginia
Department of Adminstration
Purchasing Division

801 Corporate Drive Lexington, KY 40503 Tel 859 / 223-3999 Fax 859 / 223-8917 Engineering Architecture Planning

March 14, 2011

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

RE: RFQ# DEFK11028, Expression of Interest (EOI)

West Virginia National Guard Joint Operations Center, Charleston, WV

Dear Members of the Selection Committee:

GRW thanks you for the opportunity to submit our qualifications for this project. Our project team brings several unique advantages to you for the design of the new Joint Operations Center:

- National Guard Experience: GRW has more than 35 years of experience with the National Guard. A few of these projects include:
 - West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV 13,100 SF; LEED Silver Design Criteria
 - Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Ft. Wayne, IN -18,494 SF
 - Texas ANG 136th Airlift Wing Security Forces Squadron Facility, NAS JRB Fort Worth, TX 17,400
 SF; LEED Silver Design Criteria
 - Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex,
 Springfield, OH 85,865 SF; LEED Silver Design Criteria
 - Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY - 102,375 SF; LEED Silver Design Criteria
 - Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN 109,555 SF; LEED Certified Design Criteria
 - Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY 54,400
 SF; LEED Silver Design Criteria
- National Emergency Operations Consultant: Our subconsultant, Mission Critical Partners (MCP) has
 more than 25 years of experience in planning, designing and integrating mission critical technology
 and operations into new and renovated facilities. MCP's experience includes emergency operations
 center and 9-1-1 facility planning, design and implementation services for clients such as the
 Department for Homeland Security.



State of West Virginia Department of Administration, Purchasing Division March 14, 2011 Page 2

- Knowledge of Local Conditions: GRW is familiar with local conditions through our project experience
 from our A/E Services IDIQ Contract with the WV Army and Air National Guard. To provide
 additional knowledge of the area, we have included two subconsultants on our project team –
 Moment Engineers and Potesta & Associates, providing structural and geotechnical engineering,
 respectively. In addition, both firms have WV National Guard Experience.
- Capacity: GRW has more than 230 employees, including a building design studio of 17 architects and
 more than 40 structural, civil, mechanical and electrical engineers and technicians. The anticipated
 workload for this assignment is well within the available capacity of the firm.

GRW's corporate culture is one of close collaboration with the Owner to ensure a timely, cost-effective and functional project. We are exceptionally familiar with National Guard facility requirements and design guidelines. We maintain a current library of all applicable NGB and UFC publications associated with facility design and construction. Regardless of a project's size, complexity or schedule, we leverage our unique insight and perspective to move projects forward in a timely manner, while facilitating clear, frequent and open lines of communication.

We look forward to the next step in your A/E selection process. Please contact me if you have any questions regarding this EOI.

Sincerely,

Shane Lyle, AIA, Vice Président

Email: slyle@grwinc.com



Expression of Interest Architecture and Engineering Services Joint Operations Center West Virginia National Guard RFQ DEFK11028

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1.0 Introduction to GRW Team



Founded over 40 years ago, GRW is a full-service architectural, engineering, and planning firm with a building design studio of 17 architectural professionals and more than 40 electrical, mechanical, civil and structural engineers and technicians.

By bringing together our multidisciplinary design team with all building stakeholders early in the planning stages, GRW is able to drive aggressive project schedules while keeping projects on budget.

Our vast project experience includes facility renovations and expansions, as well as new multi-million dollar facility construction for federal, local and state governments, and commercial markets. Using the principles of sustainable design, our architects and engineers improve the functionality, operating efficiency, aesthetics and long-term value of our clients' building projects. GRW strives to deliver "whole building" designs that not only maximize the potential of the site, but also integrate the architectural and engineered features of the building in relation to its environment. In addition, we have 13 LEED Accredited Professionals in key disciplines (architecture, electrical, mechanical, structural, sanitary and civil), and we have designed or are in the process of designing more than 1,800,000 SF of LEED registered projects

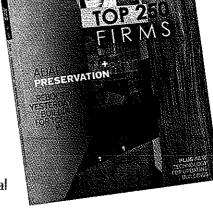
The quality of our work is further demonstrated in the numerous awards our projects have won, both on national and state levels. Our projects have received awards from the American Institute of Architects, the American Council of Engineering Companies, the U.S. Air Force, the U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency. Also included in the benchmarks of our firm's history are several prestigious, national rankings.

 As published in the Architectural Record, GRW is among the Top 250 Architecture Firms in the U.S.

- According to Building Design and Construction's Giants 300 report,
 GRW is 35th among the magazine's listing of the Top Engineer-Architect Firms in design and construction.
- GRW is ranked by Public Works as a Top AEC Firm (architecture, engineering, and construction) serving the government market.
- GRW is also listed in the Top 100 of Giants for Mechanical/ Electrical Engineering Consultants in the Consulting-Specifying Engineer.
- Since 1972, GRW has been continually ranked in Engineering News Record's Top 500 Design Firms in the U.S. We are also ranked in the journal as a Top 100 Green Design Firm and a Top 200 Environmental Firm.

As a national design firm of more than 230 professionals with offices in Kentucky, Indiana, Ohio, Tennessee and Texas, GRW offers a wide range of professional services including:

- Architecture
- Mechanical Engineering
- Electrical Engineering
- Structural Engineering
- Water & Wastewater System Engineering
- Site/Civil Engineering



Joint Operations Center West Virginia National Guard

- Transportation Engineering
- Master Planning
- Aerial Mapping and Surveying
- Geographic Information Services
- Construction Administration and Resident Project Representation (Inspection)
- Operations & Management Support
- Cost Estimating
- Alternative Project Delivery Methods (Design/Build, CM)
- Sustainable Design
- Anti-Terrorist Force Protection and Physical Security
- Three Dimensional Modeling
- AutoCAD, Microstation, and Revit® (BIM) Deliverables

Building Information Modeling (BIM)

GRW has hardware and software for virtually any A/E project, and we are experienced in the use of this equipment for a very wide variety of project applications. Our computer aided drafting and design software includes the most current versions (via subscription service) of MicroStation (40+ licenses) and AutoCAD (70+ licenses) products.

For several years, GRW has been transitioning away from two dimensional drafting to three dimensional modeling of structures, and embedding more intelligence into our projects' digital files through the use of products like AutoCAD Revit Architectural, MEP, Structural and Suites, and Civil 3D, as well as the Bently TriForma Suite. We firmly believe that building information modeling (BIM) software is the future of computer-aided design, allowing for intelligent, 3D digital building models to be developed during the design process. Any design change is automatically updated throughout the digital model instantly, with no user interaction to manually update any view. Thus, designs and documentation stay coordinated, consistent, and complete.

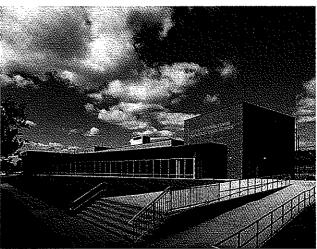
One particular advantage is the ability to identify conflicts within the construction drawings. The software identifies parts of the building in conflict or clashing through a detailed computer analysis of each part in relation to the total building, and then notifies the design team of these conflicts for appropriate correction. The software also provides a value-added benefit to our clients, in that the resulting digital building model can be used for life-cycle costing and facility management. Quantities and shared properties of materials can easily be extracted. In addition, the BIM model automatically generates a material take-off that can be directly linked to industry-standard cost estimating software. Thus, the design team can quickly investigate the implication that a proposed design change might have to the overall cost of the project. The automatically generated take-off will be selectively double-checked by hand, to make sure that nothing is being missed. This check and balance procedure ensures the most accurate cost estimating that is available.

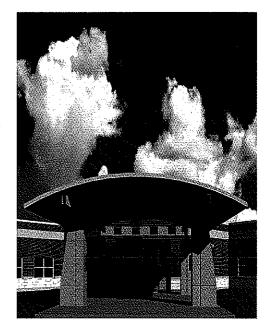
We are excited to be able to offer this cutting-edge CAD technology to our clients, and we are firmly convinced that the results, both in terms of better design visualization and better coordination, offer definite and quantifiable advantages over traditional CAD software.

GRW has used BIM software on a variety of projects for federal, state and local governments, as well as commercial clients. A few of these projects include:

 Kentucky Air National Guard Offices and Warehouse for 123rd Airlift Wing Contingency Response Group, Louisville, KY – This 54,400 SF facility includes a 2-story, 26,900 SF office/administration building and a 24,500 SF high-bay warehouse

- Marshall University Engineering Lab, Huntington, WV - This 16,000 SF facility houses materials, soils, hydraulics, structural, and environmental laboratory space, as well as classroom space and faculty offices.
- Twin Lakes Emergency Services Building, Albany, KY - This 12,150 SF building will house the fire department (four truck bays), EMS (six truck bays) and 911 service. Additional building facilities include equipment and storage areas, sleeping quarters, kitchen, conference and training room, offices and 911 dispatch workstations.
- Ohio Army National Guard Joint Armed Forces Reserve Center and Field Maintenance Shop, Springfield, OH -GRW designed this new 108,126 SF Joint Armed Forces Reserve Center (AFRC) and Field Maintenance Shop (FMS) for the Ohio Army National Guard (ARNG) and the US Army Reserves. The buildings include a diverse array of spaces, such as administrative areas, classrooms, library and training center, distance learning area, weapons simulator, assembly hall, storage areas and vehicle work bays.
- West Virginia Air National Guard Communications Facility, Charleston, WV - This 13,100 SF facility will provide a centrally located common user communications system for both intra-base and off-base communications. Initially, consideration was given to a 10,000 SF Joint Operations Center in the basement of this facility for state and national emergency situations. With Autodesk® Revit® software, the drawings were easily changed to meet the new scope of work.





LEED Design

The primary consensus industry standard for determining the sustainable or "green" attributes of a given design is the Leadership in Energy and Environmental Design (LEED) Certification Process, developed by the United States Green Building Council (USGBC) and now administered by the Green Building Certification Institute (GBCI). There are other rating systems and programs such as SPiRiT, Green Globes, and Energy Star, but none have the same level of mass acceptance that has been achieved by USGBC. Many state and municipal governments have incorporated LEED requirements into local ordinances and state laws for high performance buildings in their jurisdictions.

GRW is actively involved in USGBC both on a national and local level, and we have 13 LEED Accredited Professionals in key disciplines (architecture, electrical, mechanical, structural, sanitary and civil). Our commitment to preserving sites and energy, incorporating renewable resources into our projects, and reducing waste has led to better employment of LEED in the planning, design, and construction of new and renovated facilities.

LEED rating systems are based on accepted energy and environmental principles that strike a balance between known established practices and emerging concepts organized into five environmental categories (Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, and Indoor Environmental Quality). Bonus credits are available for innovative design and projects that address regionally specific issues.

GRW has designed or is in the process of designing more than 1,800,000 SF of LEED projects:

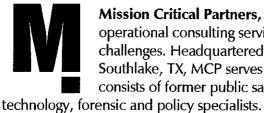
- LEED® Certified Design Criteria West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV
- LEED® Certified Design Criteria West Virginia ANG Communications and Audio/Visual Facility, Charleston, WV
- LEED® Silver Design Criteria West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity Facility, Ripley, WV (charrette only)
- LEED® Gold Design Criteria Texas ANG Electronic Countermeasures Facility, Carswell AFB, Fort Worth, TX
- LEED® Silver Design Criteria Ohio ARNG Armed Forces Reserve Center and Field Maintenance Shop, Springfield, OH
- LEED® Silver Design Criteria Kentucky ARNG Armed Forces Reserve Center and Field Maintenance Shop, Richmond, KY
- LEED® Silver Design Criteria Kentucky ARNG Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY
- LEED® Silver Certified Criteria U.S. Penitentiary and Satellite Camp, Yazoo City, MS
- LEED® Silver Design Criteria Colorado ANG Weapons Release Facility, Buckley AFB, CO
- LEED® Silver Design Criteria Kentucky ANG Contingency Response Group (CRG) Facility, Louisville, KY
- LEED® Silver Design Criteria Texas ANG Security Forces/Composite Support Facility, Carswell AFB, Fort Worth, TX
- LEED® Silver Design Criteria Texas ANG Munitions Maintenance Shop, Ellington Field, Houston, TX



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- LEED® Silver Design Criteria Air Force Special Operations Command C-130 Hangar Complex, Cannon AFB, NM
- LEED® Certified Design Criteria Dallas Executive Airport Improvements, Dallas, TX
- LEED® Certified Design Criteria Indiana ARNG Army National Guard Readiness Center, Lawrence,
- SPIRIT Gold Rating Design Criteria Michigan ARNG/ANG Joint Forces Headquarters, Lansing, MI (design charrette only)
- LEED® Certified Design Criteria- Northpoint Correctional Facility, Burgin, KY

Subconsultants



Mission Critical Partners, Inc. (MCP) is committed to delivering top quality technical and operational consulting services to help mission critical managers excel in meeting challenges. Headquartered in State College, PA, with offices in Harrisburg, PA and Southlake, TX, MCP serves clients throughout North America. Their award-winning team consists of former public safety managers, project management professionals (PMPs), and

MCP's general service areas include:

- **Executive Consulting/Master Planning**
- Next Generation 9-1-1 Services
- Facility/Technology Integration
- **Broadband Deployment**

- Consolidation Services
- **Emergency Management Communications**
- Land Radio Management
- Forensics/Systems Analysis

Furthermore, MCP brings more than 25 years of experience in planning, designing and integrating mission critical technology and operations into new and renovated facilities. The firm team applies that hands on experience with Public Safety Answering Points (PSAPs), Emergency Operations Centers (EOCs), Fusion Centers and Call Centers to develop the solution that best fits the client's needs. MCP is familiar with the requirements of mission critical facility architectural and engineering design, and is highly qualified to manage the many complexities that arise with each building project. MCP also applies their understanding of all elements of the facility construction including site development, electrical, mechanical, structural, security and technology to coordinate systems install, acceptance, training and operational transition.

The focus of every project is to optimize the functional use of the space for operational integrity. MCP works closely with the client to develop the technology solutions, migration schedule and operations floor layout.

MCP's facility and technology planning, design and integration services include:

Facility Planning and Programming

- Hazard Vulnerability Assessment
- Spatial Allocation
- Adjacency Requirements
- Workstation Orientation
- Power, HVAC, Security and Structural Requirements
- System Redundancy and Diversity
- Infrastructure Requirements
- Tower Location and Path Studies

Facility Construction Coordination

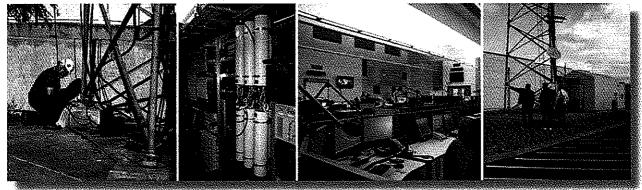
- Project Management
- System Install Coordination
- Contractor Resolution
- Systems Acceptance
- Commissioning, Training, Scheduling, Migration/Transition Planning

Design Solutions

- Architectural Coordination
- Low Voltage and Data Cable Management
- Rack, Cable Tray, Pathway and Conduit
- All Mission Critical Systems (CAD/RMS, CPE and Telephony, Logging, Video Walls, Workstations, Consoles and Interfaces, Security, Network & Tower)
- Procurement Support (RFP Development, Vendor Proposal Review/Recommendation/ Selection/Negotiation)

Migration and Transition Services

- Project Management
- Scheduling
- Vendor Coordination
- Cutover Support
- Decommissioning services



Mission Critical Partners supports emergency managers with expertise in emergency operations, incident command, and the planning and systems designated to support operational integrity.



Moment Engineers, Inc. is a professional consulting firm specializing in structural engineering. The firm serves the architectural and building construction communities throughout West Virginia. Based in Charleston, West Virginia at 179 Summers Street, Moment

Engineers was founded by Douglas Richardson in early 2005.

During his more than 20 years of experience, Mr. Richardson has had sole responsibility for the structural engineering design of more than 5 million square feet of built space. The construction costs of these projects exceed a half billion dollars. This experience, which ranges from small to very large multi-phase projects, is invaluable in providing the technical expertise and creative flexibility to deliver results in a prompt and reliable manner. Furthermore, Moment Engineers' staff experience encompasses a wide variety of building types and sectors, and our expertise includes design analysis for steel, concrete, masonry, and wooden structures.

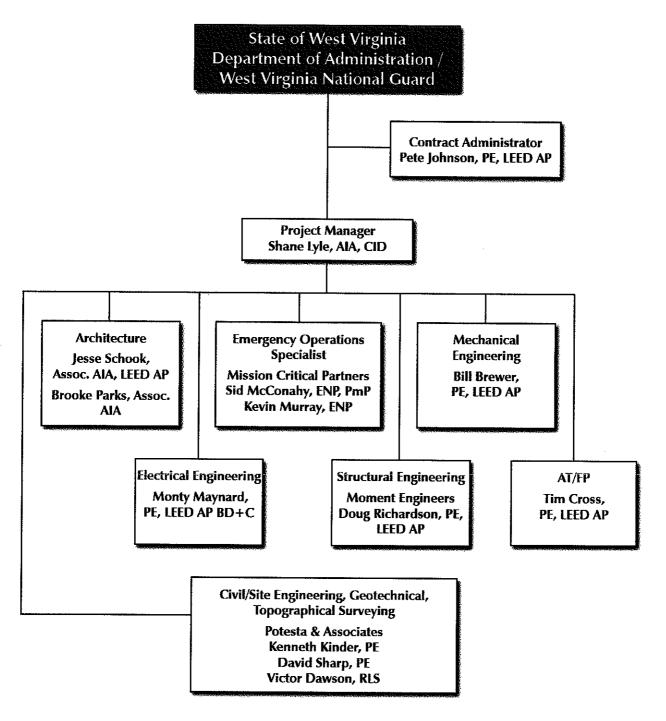


Potesta & Associates, Inc. (POTESTA) was founded in 1997 to provide quality engineering and environmental consulting services to a wide variety of private and public clients in West Virginia and the eastern United States. The firm has grown to a staff of more than 100 people, including more than

30 engineers, about half of whom are registered professional engineers. POTESTA's diverse staff includes civil, geotechnical, environmental, mining and chemical engineers, Licensed Remediation Specialists, site designers, surveyors, CADD designers, biologists, toxicologists, ecologists, geologists, hydrogeologists, foresters, stream restoration design specialists, occupational safety and health specialists, field technicians, a land management team and support personnel. Services are provided from the firm's headquarters in Charleston, West Virginia and branch offices in Morgantown and Winchester, Virginia. For the WV ARNG Joint Operations Center, POTESTA will provide civil/site and geotechnical engineering, as well as surveys.

2.0 Project Team Organization and Resumes

GRW has assembled a project team of professionals with specific experience in the design of emergency operations centers. Each team member has unique architectural or engineering experience that is critical to the successful design of this project. As the lead firm, GRW will be the primary contact with the Owner. Our services will include project management; architecture, and mechanical, electrical, and civil engineering.



Shane Lyle, AIA, CID GRW Project Manager

Sign

Years of Experience: 28

Years with GRW: 22

Education

Bachelor of Architecture (with honors), 1983, University of Kentucky

Registration

Registered Architect: KY, WV, TN, AL, IN, TX, MS National Council of Architectural Boards Certification Certified Interior Designer

Professional Affiliations

Past President - East Kentucky Chapter (Lexington), American Institute of Architects Member / Past Officer - UK College of Architecture Alumni Association Life Member - UK Alumni Association

Qualifications and Similar Project Experience

With 28 years of experience, Mr. Lyle has had primary responsibility for a wide range of architectural projects for clients including the U.S. Armed Forces, the Federal Bureau of Prisons, universities, medical facilities, local and state governments, and private developers. His areas of responsibility typically include programming/planning, budget analysis, design, construction documents, client meetings, bidding/negotiation services, construction phase services, and code compliance.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Project Manager. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV - Architect. Preparation of a Program Planning Document Charrette (PPDC) for replacement of two local armories and a USAR center with aging facilities and site limitations, with a new, \$17 million Joint Armed Forces Reserve Center and support facilities on a 94-acre site. Resulting plans include an Armed Forces Reserve Center (60,927 SF), unheated storage (6,000 SF), area maintenance support (4,500 SF) and helipad.

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV - Project Manager. Concept Development Report for facility which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

West Virginia ANG 130th Airlift Wing Building 107 Consolidation Study, Charleston, WV - Project Manager. Consolidation Study for historic hangar which will be renovated in phases to house Aero-Medical Evacuation Squadron, new Aerial Port Facility and Deployment Processing Center, and mobility storage for Security Forces Squadron. Work includes floor plans for each phase as well as final floor plan and construction cost estimate. Major challenge involves consolidation of organizations with a total authorized area of over 50,000 SF into facility with 40,000 SF footprint - no additions are allowed. AT/FP, energy and ADA accessibility measures will be incorporated, as well as current ANG guidelines.

West Virginia ANG 130th Airlift Wing Communications Facility Code / Criteria Review, Charleston, WV - Project Manager. Code/Criteria Review and LEED Update Report for facility designed to 65% three years prior under separate GRW/NGB contract then put on hold pending funding. Twofold project goal included: 1) identify and delienate known codes/criteria that are either new or updated since 65% Design Submittal; and 2) describe revised LEED 3.0 criteria now in effect for project and outline points for LEED Silver certification, compared to LEED Silver 2.2 criteria in effect at the 65% design stage.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH – Architect for Project Planning Document Charrette as part of design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF. Functional spaces include administrative, educational (classrooms, weapons simulator, distance learning, training-specific libraries, COMSEC), assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.

Marshall University Engineering Laboratory, Huntington, WV - Project Manager. A/E design for a new, 16,000 SF Engineering Laboratory Building on the main campus providing laboratories for materials, soils, hydraulics, structural, and environmental studies, classrooms and faculty offices. Building security systems included access control and CCTV.

Harlan County Justice Center, Harlan, KY - Principal-in-Charge. Design for a new, \$6.3 million, 31,500 SF judicial courts facility providing circuit court clerk offices, district courtroom (150 seats), district judges chambers, circuit courtroom (150 seats), circuit judge's chambers, grand jury facilities, related support facilities, improved defendant loading and unloading security, and extensive computer networking systems.

Barbourville Utility Commission Office Building, Barbourville, KY - Project Manager. Design for a 5,300 SF office building for the local provider for cable TV, electric and internet service, providing a large public lobby, a teller area, drive-through window, conference room, multiple offices, support spaces, and vault.

Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL - Project Manager. Design-build delivery of a \$188 million women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 624,312 SF, housing approximately 1,790 inmates. FCI includes three 4-story housing units. Campus includes perimeter security, closed circuit television, telephone, door control and monitoring, paging, intercom, inmate duress alarms, inmate telephone system, structured data cabling systems, control panels, consoles, and fiber optic cable distribution systems. Systems were integrated into a functional security management and control system. Campus-wide power metering network with internet connection provides web access remotely.

Pete Johnson, PE, LEED AP GRW Contract Administrator



Years of Experience: 44 Years with GRW: 14

Education

PhD Studies, Environmental Engineering, 1971, Oklahoma State University M.S., Environmental Engineering, 1967, Oklahoma State University B.S., Civil Engineering (Sanitary Specialty), 1966, University of Missouri-Rolla

Registration

Professional Engineer: KY, OH, IL, IN, MO, WV LEED Accredited Professional Value Engineer AHERA Asbestos Inspector, Mgmt. Planner: MO, IL

Professional Affiliations

Society of American Military Engineers
Air Force Association
Association of U.S. Army
Veterans of Foreign Wars of the United States
National Society of Professional Engineers

Design Build Institute of America Water Environment Federation American Water Works Association American Society of Civil Engineers

Qualifications and Similar Project Experience

Mr. Johnson is the GRW's Director of Military Programs. In this role, he is responsible for the administration, coordination and personnel assignments of multi-discipline teams of GRW staff and consultants on military projects undertaken by the firm. He provided project management, coordination and QA/QC oversight on more than 50 ANG and ARNG task orders awarded to GRW under its NGB IDIQ A/E services contract, as well as several task orders under GRW's IDIQ Contract with the West Virginia National Guard. He has also led programming and design charrettes, authored concept proposal and concept development reports, developed construction cost estimates, prepared specifications, led VE reviews, oversaw subconsultants, coordinated project submittals, and provided LEED documentation for most of these task orders. Mr. Johnson is a retired US Army Reserves Engineer Officer (0-6), a position in which he commanded reserve units in combat as well as serving as Deputy Chief of Staff for Facilities and ARCOM Deputy Commander, where he was responsible for new Armed Forces Reserve Centers and related facilities in a two-state area.

Mr. Johnson has provided contract and/or project oversight for the following projects:

West Virginia ARNG Live Fire Exercise Shoot House, Camp Dawson, WV - Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson to provide a \$2 million Live Fire Exercise Shoot House, including shoot house to be housed in a metal warehouse, operations / storage, after action review (AAR) facility, ammunition breakdown facility, warehouse restroom renovation, access road and parking area, and utility services. Completed conceptual design for LFSH facility with final design and construction of LFSH completed by selected vendor (design / build); balance of facilities delivered with traditional design / bid / build approach.

West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV - Preparation of a Program Planning Document Charrette (PPDC) for replacement of two local armories and a USAR center with aging facilities and site limitations, with a new, \$17 million Joint Armed Forces Reserve Center and support facilities on a 94-acre site. Resulting plans include an Armed Forces Reserve Center (60,927 SF), unheated storage (6,000 SF), area maintenance support (4,500 SF) and helipad.

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV - Design and construction services (Type A, B & C) for \$2.5 million renovation and energy-efficient improvements to 25,765 SF facility with history of remodeling activities resulting in a building that inadequately serves its users (Administration and Operations, Base Operations, Command Post, and Life Support and Fitness Center). Work included Charrette to develop alternative floor plans. Final design allows for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating and ANG Sustainable Design criteria.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Principal-in-Charge. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV - Concept Development Report for facility which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

West Virginia ANG 167th Airlift Wing Basewide Sewer Line Repair, Martinsburg, WV - Planning, design and construction administration services for replacement of sanitary sewer system, circa 1954. Pipe includes combination of various construction materials including vitrified clay pipe (VCP) with dilapidated sections allowing high rates of inflow and infiltration during storm events.

West Virginia ANG 167th Air Wing POL Complex Demolition Design, Martinsburg, WV - Engineering services preparing plans and specifications for the demolition of the former POL Complex, including two 305,000-gallon aboveground POL tanks and surrounding secondary containment structure, below ground piping, oil / water separator, fuel recovery tank, fuel loading and unloading facilities and piping and equipment in the Pump Building. Some of the existing equipment was set aside for government re-use (fuel pumps, major valves and instrumentation).

West Virginia ANG 130th Airlift Wing Communications Duct, Charleston, WV - Principal-in-Charge. Concept Development Report to select a preferred concept for a new duct system for routing the base's communications network to a new Communications Facility. New fiber optic cable for base network will consist of two ITNs (Information Transfer Nodes); ITN-1 in the new Communications Facility and ITN-2 in new hangar, Building 407. Duct bank will carry fiber optic lines, television and coaxial cabling; allows looping of current system; and provides redundancy of assets. A 4-duct and a 12-duct PVC conduit system with inter-duct is proposed.

Jesse Schook, Assoc. AIA, LEED AP GRW Architectural Designer



Years of Experience: 8

Years with GRW: 5

Education

Bachelor of Architecture, 2003, University of Kentucky

Registration

LEED Accredited Professional

Professional Affiliations

Associate Member, American Institute of Architects
National Council of Architecture Registration Board
United States Green Building Council
Board of Directors, United States Green Building Council Kentucky Chapter
Treasurer, United States Green Building Council Kentucky Chapter
Finance Committee Chair, United States Green Building Council Kentucky Chapter
Leadership in Energy and Environmental Design Accreditation
U.S. Army Corps of Engineers, Protective Design Center: 24 hour training on Access Control Point
Standards and 15 hour training on Security Engineering and Standards

Qualifications and Similar Project Experience

Mr. Schook has eight years of construction and design related experience, as well as digital 3D modeling and rendering. As a member of the U.S. Green Building Council, he is also a Leadership in Energy and Environmental Design Accredited Professional. Acting as the central point of communication between the Design Team, the Commissioning Team, and the USGBC, Mr. Schook plays a key role on GRW's National Guard projects.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Architectural Designer. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ANG 130th Airlift Wing Communications Facility Code / Criteria Review, Charleston, WV - Architectural Designer. Code/Criteria Review and LEED Update Report for facility designed to 65% three years prior under separate GRW/NGB contract then put on hold pending funding. Twofold project goal included: 1) identify and delineate known codes/criteria that are either new or updated since 65% Design Submittal; and 2) describe revised LEED 3.0 criteria now in effect for project and outline points for LEED Silver certification, compared to LEED Silver 2.2 criteria in effect at the 65% design stage.

West Virginia ANG 130th Airlift Wing Master Plan Update and CIP, Charleston, WV - Architectural Designer. Engineering consulting for preparation of a Web-Enabled Master Plan Update and GeoBase Common Installation Picture (CIP) for the 130th Airlift Wing in Charleston to evaluate benefits and impacts associated with acquiring additional airfield property for aircraft parking, operations, and maintenance

facilities to meet current and future proposed missions. Identified constraints and opportunities that apply to the 130th AW aircraft parking, operations and maintenance areas, including Anti-Terrorism/Force Protection (AT/FP) measures; quantified existing and required airfield facilities; developed new alternatives for long- and short-range plans; and created plan tabs that depict constraints and opportunities, long- and short-range development plans, land use and circulation plan, real estate plan, and facility utilization plan.

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Fort Wayne, IN - Architectural Designer. Conceptual design for design-build bridging document for a new \$3.86 million (FY07), 18,494 SF Security Forces Operations and Training Facility, including a Combat Arms Training and Simulator/Combat Arms Training Maintenance (CATS/CATM) area, providing offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. Site work included grading, drainage and stormwater controls, new utilities, roads and parking areas and AT/FP measures.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH - Architectural Designer. Project Planning Document Charrette and design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials. Functional spaces include administrative, educational (classrooms, weapons simulator, distance learning, training-specific libraries, COMSEC), assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.

Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility, Louisville, KY - Architectural Designer. Type A, B and C A/E services for a new \$12.6 million 54,400 SF masonry and standing seam roof addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group. Provides 24,600 SF of administrative, food service and training space, a 24,500 SF storage area for 200 tons of mobility equipment and a 2,300 SF dining facility. Includes approximately 3,000 SF of renovation to the existing Services Flight and Security Forces Squadron area, applicable antiterrorism / force protection measures as well as design to meet the USGBC LEED Silver sustainable design criteria, EPAct 2005 energy efficiency standards, and EO 13423.

Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN - Architectural Designer. Comprehensive planning, design and construction administration services for a new 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes: administrative areas; classrooms, COMSEC training, library and training center, distance learning; assembly hall with fully functional kitchen; locker rooms, medical section room; heated unit storage and unheated storage rooms, facility maintenance, arms vault, tool rooms; RAPIDS, family support and recruiting offices; space for future indoor range or simulator; military and POV parking, wash platform, loading ramp and dock, helipad; site Antiterrorism / Force Protection (AT/FP) measures, security lighting; energy management and control system, intrusion detection system, mass notification system; stormwater bio-retention pond.

Marshall University Engineering Laboratory, Huntington, WV - Architectural Designer. A/E design for a new, 16,000 SF Engineering Laboratory Building on the main campus providing laboratories for materials, soils, hydraulics, structural, and environmental studies, classrooms and faculty offices. Building security systems included access control and CCTV.

Brooke Parks, Assoc. AIA GRW Architectural Designer

G

Years of Experience: 4 Years with GRW: 4

Education

Bachelor of Architecture, 2007, University of Kentucky

Professional Affiliations

Associate Member, American Institute of Architects

Past President -Kappa Omega Chapter (Lexington), Alpha Omicron Pi Fraternity

Past Chapter Member - University of Kentucky Chapter (Lexington), American Institute of Architecture Students

Past Chapter Member - University of Kentucky Chapter (Lexington), College of Design Student Council

Qualifications and Similar Project Experience

Kentucky ANG 123rd Airlift Wing Renovation Projects, Louisville ANG Base, KY - Architectural Designer. Fast-track design for various upgrade and renovation projects under an indefinite delivery indefinite quantity National Guard Bureau contract, including fire suppression systems in two buildings, new lights in several rooms of two buildings, relocation of a LOX storage facility, remodeling of the Command Post for the Wing Operations Center, and remodeling the Operations Center for the Critical Response Team, all ready for bid solicitation within 30 days of notice-to-proceed.

Aliceville Federal Correctional Institution and Satellite Camp, Aliceville, AL - Architectural Designer. Design-build delivery of a \$188 million women's medium-security Federal Correctional Institution (70-acre site) and minimum-security Federal Prison Camp (20-acre site) totaling 624,312 SF, housing approximately 1,790 inmates. FCI includes three 4-story housing units. Complex buildings designed for LEED Certification and under Federal Leadership in High Performance Building Standards. Highlights in sustainable design include: recycled and treated laundry waste water; stormwater detention ponds design to allow on-site infiltration to reduce runoff and pollution of receiving streams; water efficient landscaping; 30% reduction of water use resulting from low-flow plumbing fixtures; on-site renewable energy and measurable optimized energy performance; and attention to indoor environmental quality.

Del Rio Police Station, Del Rio, TX - Architectural Designer. Site selection, needs assessment, design and construction documents for a new 27,000 SF city police station with detention area and 7,000 SF secured evidence space, including design provision for future expansion, and security systems for access control and intrusion detection, intercom, and multiple CCTV/DVR systems.

Michigan ARNG Design & Renovation of 8 Facilities at Ft. Custer, Camp Grayling, Grayling Army Airfield and Midland, MI, , MI - Architectural Designer. Design services for 8 "fast track" projects for Michigan Army National Guard scattered throughout the state, including: new Bachelor Officer Quarters at Fort Custer, Camp Grayling and Grayling AAF; an addition to the Range Control Building and a new Logistics Facility at Fort Custer; a new General Officers BOQ at Camp Grayling; a new Company Operations Facility at Grayling AAF; and kitchen and other renovations to an existing armory in Midland that required lead and asbestos abatement. Completed design, permitting, and master planning for future expansion and/or facilities in 10 weeks, in time to meeting funding deadlines for bid advertisements.

California ARNG Infantry Platoon Battle Course, Camp Roberts, CA - Architectural Designer. Design for a new, \$2.7 million infantry platoon battle course providing stationary and moving infantry and armor targets (RF controls, battery power operation), machine gun observation bunkers, tactical trenching obstacles and mortar simulation devices in six separate obstacles. Range Operations and Control Area structures included: a cost-saving consolidated 2,400 SF Range Control Center; Ammunition Breakdown (120 SF) for breakdown of containeraized ammunition and magazine loading for troop issue; multi-purpose 800 SF Mess Shelter; 600 SF troop instruction bleacher enclosure; and site support including parking, roads, and power plant.

Nicholasville United Methodist Church Addition, Nicholasville, KY - Architectural Designer. Design for a two-story addition of 13,000 SF to provide an adequate multi-functional gathering space and fellowship hall for a growing church, including stage, classrooms, commercial kitchen and pantry, and youth and children's rooms, new elevator, restrooms, janitorial and building systems support space. Constructed of steel post and beam structure with facade of brick veneer atop manufactured stone wainscot.

Corbin Utilities Office and Warehouse Buildings, Corbin, KY - Architectural Designer. Design for renovation of three buildings on the site of a former automobile dealership, involving exterior site work, exterior and interior finishes, and demolition and replacement of the existing mechanical and electrical systems. Initial work in a 30,500 SF building provides a spacious public lobby, cashier's counter for walk-in customers, offices, employee shower and locker room facilities, two drive-thru bays for customer convenience, secure parking for employees, as well as storage and maintenance space for utility vehicles. Project includes geothermal and well testing.

Monroe County Wellness Center, Tompkinsville, KY - Architectural Designer. Preliminary program and design studies to support multiple fundraising opportunities, and final design of two-phase, 27,000 SF family wellness center; constructed 6,900 SF, \$1.7 million phase includes racquetball court, reception/check-in station, offices, support spaces, equipment storage, and two multi-purposes classrooms with an adjoining warming kitchen. The 20,100 SF future \$4.6 million phase includes a cardio fitness/weight room, indoor 25-yard, 6-lane competition swimming pool, therapy pool, whirlpool, locker rooms, first aid, multi-purpose room, support spaces, equipment storage, and a juice bar/lounge.

Robertson County Fire Department and Community Center, Mt. Olivet, KY - Architectural Designer. Planning, design and construction administration services for a 5,368 SF, single-story, wood-framed facility with metal roof and siding, providing a 3,000 SF fire station with 3 emergency vehicle bays with dual (front and rear) entrances, mezzanine storage, fire chief's office and conference room, and a corridor with restrooms connecting vehicle bays to a 1,183 SF community room with seating for 96 attendees, warming kitchen and janitor closet.

VA Medical Center IDIQ Contract for A-E Services, Lexington, KY - Architectural Designer. Delivery orders have included: Leestown Campus Building One Radiology Renovation; Cooper Drive Data Center Upgrade of HVAC, electrical and fire suppression systems; and Leestown Campus Parking Improvements.

Monroe County Health Department Expansion, Tompkinsville, KY - Architectural Designer. Design for a 2850-SF expansion to an existing 2,300 SF facility, providing examination rooms, lobby, registration area,

Monty Maynard, PE, LEED AP BD+C GRW Electrical Engineer



Years of Experience: 34 Years with GRW: 15

Education

B.S., Electrical Engineering, 1978, University of Kentucky

Registration

Professional Engineer (Electrical): KY, WV, IN, GA, TN, TX, NV, NC, MS, MI, AL, CA NCEES Member allows reciprocity with other states
LEED Accredited Professional, Building Design + Construction

Professional Affiliations

National Fire Protection Association
International Society of Automation
American Institute of Architects
American Council of Engineering Companies
National Council of Examiners for Engineering and Surveying
Design Build Institute of America
Ohio Valley Region, Design Build Institute of America
Air National Guard Civil Engineering Association Life Member (Associate)
Society of American Military Engineers
American Water Works Association

Qualifications and Similar Project Experience

Mr. Maynard has 34 years of experience with electrical and mechanical design, process instrumentation and control, and project management. Mr. Maynard has designed electrical and mechanical systems for more than 300 projects with total construction values as high as \$184 million. His areas of technical expertise include electrical power distribution, substation design, alarm systems, communications, lighting, lightning protection, instrumentation/controls/telemetry, power quality, energy efficiency and code compliance.

West Virginia ARNG Joint Armed Forces Reserve Center and Area Maintenance Support Activity, Ripley, WV - Electrical Engineer. Preparation of a Program Planning Document Charrette (PPDC) for replacement of two local armories and a USAR center with aging facilities and site limitations, with a new, \$17 million Joint Armed Forces Reserve Center and support facilities on a 94-acre site. Resulting plans include an Armed Forces Reserve Center (60,927 SF), unheated storage (6,000 SF), area maintenance support (4,500 SF) and helipad.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Electrical Engineer. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Fort Wayne, IN - Principal-in-Charge. Conceptual design for design-build bridging document for a new \$3.86 million (FY07), 18,494 SF Security Forces Operations and Training Facility, including a Combat Arms Training and Simulator/Combat Arms Training Maintenance (CATS/CATM) area, providing offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. Site work included grading, drainage and stormwater controls, new utilities, roads and parking areas and AT/FP measures.

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY - Engineering Manager. Engineering design for design / build delivery of a \$14.7 million complex of over 83,300 SF total in three buildings, meeting LEED Silver sustainable design rating, serving both Kentucky Army National Guard and U.S. Army Reserves. Provided: administrative areas; education space, 6 vehicle maintenance bays; assembly hall with kitchen; storage for general, flammable material, and controlled waste; security systems; and energy management and control systems. Site work included new grading and drainage improvements, stormwater detention, entry control point, roads, parking areas, vehicle wash rack, perimeter fencing and barriers, and AT/FP measures.

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY - Project Manager. Design Criteria Consultant for design-build delivery of a new \$18.5 million complex encompassing a 63,250 SF Armed Forces Reserve Center (AFRC) and a 31,725 SF Field Maintenance Shop (FMS), both designed to meet LEED Silver sustainable design rating. Provided RFQ and RFP development, assistance in short-listing and final selection of the design/build team, construction administration and commissioning of the new facilities that included administrative, training, assembly, storage, and vehicle workbays.

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Springfield, OH - Electrical Engineer. Project Planning Document Charrette and design for new LEED Silver 85,865 SF complex serving both Ohio Army National Guard and U.S. Army Reserves. Provided Joint Armed Forces Reserve Center (AFRC) totaling 60,902 SF, and Field Maintenance Shop (FMS) totaling 24,963 SF, with a construction bid of \$14 million (\$9 million under the MCC of \$23 million) due in large part to innovative design and alternative construction materials. Functional spaces include administrative, educational (classrooms, weapons simulator, distance learning, training-specific libraries, COMSEC), assembly hall and kitchen, general storage, flammable materials storage and controlled waste facilities, and 10 drive-through work bays (6 for ARNG, 4 for USAR). Site work included extension of utilities from adjacent ANG base, grading, drainage and stormwater detention, perimeter fencing and entry point control, parking and access roads, wash platform, AT/FP measures, and geothermal system for heating and cooling.

Indiana ARNG 76th Brigade Combat Team Readiness Center, Lawrence, IN - Electrical Engineer. Comprehensive planning, design and construction administration services for a new 109,555 SF, 2-story Readiness Center and 8,300 SF unheated storage facility. Includes site Antiterrorism / Force Protection (AT/FP) measures, security lighting; energy management and control system, intrusion detection system, mass notification system; stormwater bio-retention pond.

Marshall University Engineering Laboratory, Huntington, WV - Electrical Engineer. A/E design for a new, 16,000 SF Engineering Laboratory Building on the main campus providing laboratories for materials, soils, hydraulics, structural, and environmental studies, classrooms and faculty offices. Building security systems included access control and CCTV. HVAC systems feature rooftop VAV systems with variable electric reheat.

Bill Brewer, PE, LEED AP GRW Mechanical Engineer



Years of Experience: 40 Years with GRW: 12

Education

B.S., Mechanical Engineering, 1967, Case Western Reserve University

Registration

Professional Engineer: KY, OH, NC, TN, NH, WV, IN, CA, TX, MS, GA, VA, MI, PA NCEES Member, allows reciprocity with other states
Professional Member, Society of Fire Protection Engineers
LEED Accredited Professional

Professional Affiliations

American Society of Mechanical Engineers
American Society of Heating, Refrigeration and Air Conditioning Engineers
American Institute of Aeronautics and Astronautics
International Code Council
Society of Fire Protection Engineers
International Ground Source Heat Pump Association
U.S. Green Building Council
American Council of Engineering Companies
Certified Energy Auditor

Qualifications and Similar Project Experience

Mr. Brewer has 40 years of engineering experience with building and industrial process systems. He has extensive experience in the design, application and trouble-shooting of environmental and process systems, particularly HVAC, plumbing and fire protection systems.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Mechanical Engineer. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV - Mechanical Engineer, Project Manager. Concept Development Report for facility which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

West Virginia ANG 130th Airlift Wing Aboveground Fuel Storage Dispensing Facility, Charleston, WV - Mechanical Engineer. Design for a new aboveground fuel station for the installation's government-owned

vehicles, comprising two new aboveground tanks (1 diesel, 1 unleaded gasoline) and a new dispensing system, replacing an older fuel station that included underground fuel storage tanks.

VA Medical Center, Cooper Drive Division, Data Center Upgrade, Lexington, KY - Project Manager. Design for upgrades to existing HVAC, electrical, and fire suppression systems for a critical data center in the main hospital building, including creating space for and relocating the existing UPS system, a new UPS, constructing a separate space to accommodate a new clean-agent fire suppression system, upgrading HVAC to meet increased cooling demands of new computer room air conditioning units, reconfiguration of an architecturally-screened equipment area near the front entrance to the hospital.

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Fort Wayne, IN - Mechanical Engineer. Conceptual design for design-build bridging document for a new \$3.86 million (FY07), 18,494 SF Security Forces Operations and Training Facility, including a Combat Arms Training and Simulator/Combat Arms Training Maintenance (CATS/CATM) area, providing offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. Site work included grading, drainage and stormwater controls, new utilities, roads and parking areas and AT/FP measures.

Glenville Federal Correctional Institution and Satellite Camp, Glenville, WV - Mechanical Engineer. Design / build delivery, for a new \$106 million federal correctional complex of 13 buildings totaling 603,132 SF, built on a 125-acre reclaimed mine site. Facilities include three 4-story dormitory buildings (768 inmates in medium security), 2-story segregation unit (96 inmates in medium security), satellite camp (128 inmates in minimum security), separate buildings for administration, medical services, recreation, industrial and vocational, academic instruction, food service, canteen/barber/laundry, warehouse, central utilities plant, vehicle maintenance, security, and site utilities.

Del Rio Police Station, Del Rio, TX - Mechanical Engineer. Site selection, needs assessment, design and construction documents for a new 27,000 SF city police station with detention area and 7,000 SF secured evidence space, including design provision for future expansion, and security systems for access control and intrusion detection, intercom, and multiple CCTV/DVR systems.

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY - Mechanical Engineer. Design Criteria Consultant for design-build delivery of a new \$18.5 million complex encompassing a 63,250 SF Armed Forces Reserve Center (AFRC) and a 31,725 SF Field Maintenance Shop (FMS), both designed to meet LEED Silver sustainable design rating. Provided RFQ and RFP development, assistance in short-listing and final selection of the design/build team, construction administration and commissioning of the new facilities that included administrative, training, assembly, storage, and vehicle workbays.

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY - Mechanical Engineer. Engineering design for design / build delivery of a \$14.7 million complex of over 83,300 SF total in three buildings, meeting LEED Silver sustainable design rating, serving both Kentucky Army National Guard and U.S. Army Reserves. Provided: administrative areas; education space, 6 vehicle maintenance bays; assembly hall with kitchen; storage for general, flammable material, and controlled waste; security systems; and energy management and control systems. Site work included new grading and drainage improvements, stormwater detention, entry control point, roads, parking areas, vehicle wash rack, perimeter fencing and barriers, and AT/FP measures.

Tim Cross, PE, LEED AP GRW Civil/Site Engineer: AT/FP

Side

Years of Experience: 11 Years with GRW: 8

Education

B.S., Civil Engineering, 2000, University of Kentucky

Registration

Professional Engineer: KY LEED Accredited Professional

Professional Affiliations

National Society of Profession Engineers

U.S. Army Corps of Engineers, Protective Design Center: 24 hour training on Access Control Point Standards and 15 hour training on Security Engineering and Standards

Qualifications and Similar Project Experience

Mr. Cross has more than a decade of experience with roadway, drainage and site development planning and design. He has completed dozens of projects for private developers and local and state governments. Mr. Cross' large-scale site development experience includes projects for both the Air National Guard (ANG) and Army National Guard ARNG). He is experienced with the following computer programs: MicroStation, AutoCAD 2008, Carlson Civil 2008, StormCAD and PondPak.

West Virginia ARNG Live Fire Exercise Shoot House, Camp Dawson, WV - Civil Engineer. Design for innovative re-use of a recently-acquired former industrial complex adjacent to Camp Dawson to provide a \$2 million Live Fire Exercise Shoot House, including shoot house to be housed in a metal warehouse, operations / storage, after action review (AAR) facility, ammunition breakdown facility, warehouse restroom renovation, access road and parking area, and utility services. Completed conceptual design for LFSH facility with final design and construction of LFSH completed by selected vendor (design / build); balance of facilities delivered with traditional design / build / build approach.

West Virginia ANG 130th Airlift Wing Communications Facility, Charleston, WV - Civil Engineer. Design (Type A and B, 65%) for a new \$3.6 million, 13,100 SF Communications Facility at Yeager Airport in Charleston for West Virginia Air National Guard, designed for LEED Silver rating, to provide a centrally located common user communications system for both intra-base and off-base communications, with ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.). Design paused at 65% to enable base's master plan and re-prioritize new capital improvements.

West Virginia ANG 130th Airlift Wing Aboveground Fuel Storage Dispensing Facility, Charleston, WV - Civil Engineer. Design for a new aboveground fuel station for the installation's government-owned vehicles, comprising two new aboveground tanks (1 diesel, 1 unleaded gasoline) and a new dispensing system, replacing an older fuel station that included underground fuel storage tanks.

West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV - Project Manager. Type A and B design and construction administration services to relocate LOX function to south end of flight line

to meet operational and installation development plan requirements. Facility includes covered storage facility with adjacent tank storage canopy; elevated pads and spill containment structure for storage tanks; paved entry road; protective fencing; and utilities (electric and communications).

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV - Civil Engineer. Concept Development Report for facility which requires electrical modifications to meet needs of current occupants' activities, and investigation/resolution of temperature control in numerous locations. Report included detailed discussion of current electrical, architectural and HVAC system problems; recommendations to resolve large-system problems, as well as particular solutions for small areas; conceptual level drawings; conceptual level outline specification; and construction cost estimate.

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility, Fort Wayne, IN - Civil Engineer. Conceptual design for design-build bridging document for a new \$3.86 million (FY07), 18,494 SF Security Forces Operations and Training Facility, including a Combat Arms Training and Simulator/Combat Arms Training Maintenance (CATS/CATM) area, providing offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. Site work included grading, drainage and stormwater controls, new utilities, roads and parking areas and AT/FP measures.

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Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot, Richmond, KY - Civil Engineer. Design Criteria Consultant for design-build delivery of a new \$18.5 million complex encompassing a 63,250 SF Armed Forces Reserve Center (AFRC) and a 31,725 SF Field Maintenance Shop (FMS), both designed to meet LEED Silver sustainable design rating. Provided RFQ and RFP development, assistance in short-listing and final selection of the design/build team, construction administration and commissioning of the new facilities that included administrative, training, assembly, storage, and vehicle workbays.

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY - Civil Engineer. Engineering design for design / build delivery of a \$14.7 million complex of over 83,300 SF total in three buildings, meeting LEED Silver sustainable design rating, serving both Kentucky Army National Guard and U.S. Army Reserves. Provided: administrative areas; education space, 6 vehicle maintenance bays; assembly hall with kitchen; storage for general, flammable material, and controlled waste; security systems; and energy management and control systems. Site work included new grading and drainage improvements, stormwater detention, entry control point, roads, parking areas, vehicle wash rack, perimeter fencing and barriers, and AT/FP measures.

Kevin Murray, ENG MissionCriticalPartners President



With more than 32 years of experience in the mission critical communications industry, Kevin Murray is a versatile leader with proven success in the development and leadership of an industry-leading public safety mission critical communication business unit. Kevin's experience includes consultation, operation, supervision, design and implementation of wireless radio, telephone and data networks and systems, as well as planning, design and operations of public safety communications systems. Kevin is dedicated and passionate about working with clients and industry leaders to define and assist in developing and implementing new technology and applications to improve the delivery of public safety services. In his traditional client advocate role, Kevin represents clients in strategic planning, design, procurement, contract negotiation and project management through acceptance and operation commissioning. His strategic leadership responsibilities include, but are not limited to: executive oversight, visioning, business finances, budgeting, policy and procedure development, program development, quality assurance evaluations, project management and technical assistance for the design, operation and implementation of mission critical communications, public safety access and public alert/notifications systems.

EDUCATION

Associate, The Pennsylvania State University, 1979, Forestry

CERTIFICATIONS

Emergency Number Professional (ENP)
Pennsylvania Emergency Management Agency—Certificate
National Fire Academy—Certificate

AFFILIATIONS

Chairman of the 9-1-1 Industry Alliance Association of Public Safety Communications Officials (APCO) National Emergency Number Association (NENA) Pennsylvania Chapter NENA, 9-1-1 Legislative Committee

PROJECT EXPERIENCE

- Department of Homeland Security (DHS)/ FEMA—Communication system planning, design and implementation of an integrated emergency communication system
- Chemical Stockpile Emergency Preparedness Program (CSEPP)—Communication system planning, design and implementation oversight
- Pueblo, Colorado—Emergency Operations Center
- Estill County, Kentucky—EOC technical design, procurement and consultative assistance
- Pennsylvania Emergency Management Agency (PEMA)—State EOC programming, scheduling, systems integration

Joint Operations Center West Virginia National Guard

- Dist. of Columbia, Office of the Chief Technology Officer, Unified Communication and DC Net Projects
- Oregon CSEPP Support
- Cumberland County PA—PSAP/EOC programming, planning, systems procurement
- Greater Harris County, Texas—9-1-1 District, serving the Greater Houston area
- U.S. Department of Transportation—Next Generation 9-1-1 Program
- State of Indiana—Statewide Next Generation IPbased 9-1-1 Network
- State of Pennsylvania—Statewide Wireless 9-1-1 Network
- City of Philadelphia, Pennsylvania—Telecommunications Division, City Net Project
- City of Pittsburgh, Pennsylvania—Department of Public Safety 9-1-1 Data Center Project
- Allegheny County, Pennsylvania—Emergency Service Regional Network and Data Project
- Westchester County, New York—Fire Control 60 Communications Center Programming
- TYCO—Comparative Analysis of Market Position
- Washington Metro Area Transit Auth. Police Communications—Transition Planning and CAD Forensics
- State of New Jersey—Department of Revenue Data Center Project
- State of Kentucky EOC Programming and planning

Sidney M. McConahy, ENP, PMP MissionCriticalPartners Sr. Project Manager



Sid is a Senior Project Manager with Mission Critical Partners, Inc. He has been actively involved over the past 21 years with emergency services. While in Mifflin County, Pennsylvania, he was instrumental in creating a partial-paid EMS service from a total volunteer service, which continues to set a standard for pre-hospital care. He established a centralized countywide 9-1-1 communication center from four separate individual centers, as well as establishing a common countywide radio system for interoperability capabilities. Sid led the county into the age of computer-aided dispatch (CAD), which involved the readdress of the entire county from a rural address system to an assigned street address system. Sid helped in the pro-active consolidation of two fire companies into one organization to achieve operational efficiency.

CERTIFICATIONS

Emergency Number Professional (ENP) Project Manager Professional (PMP) FEMA Emergency Program Manager FEMA ICS 100, 700, 800

AFFILIATIONS

National Emergency Number Association (NENA)

AWARDS

1996 PA State Jaycees Outstanding Firefighter 1990 Fame Fire Company Earl J. McMillian Award 1996 Mifflin County Jaycees Outstanding Firefighter 1989 Fame Fire Company John C. Snyder Award

EDUCATION

Mifflin-Juniata Vocational School, Lewistown, Pennsylvania, Electronics Associate, Harrisburg Area Community College, Harrisburg, Pennsylvania, 1999, Paramedic

PROJECT EXPERIENCE

- Morris County, New Jersey—Engineering design services for countywide public safety complex (telecommunications/security)
- State of Maine—Statewide review of protocol use and effectiveness of quality assurance systems and certification systems
- Armstrong County, Pennsylvania—Feasibility study planning services
- State of Pennsylvania—Wireless PSAP assessment, regional deployment manager, statewide technical audit
- Pennsylvania Emergency Management Agency EOC Programming and Planning—Support development of a program integration plan for new State EOC including systems procurement and implementation and integration with operations
- Cumberland County Pennsylvania—Project Manager for migration planning, commissioning of systems and operations for new Countywide PSAP and EOC, transition planning

Joint Operations Center West Virginia National Guard

- Perry County, Pennsylvania—Project Manager: wireline/wireless plan submission assistance; procurement and implementation support; general consulting
- Franklin County, Pennsylvania—Project Manager: wireline/wireless plan submission assistance; 400
 MHz trunked radio system implementation
- Fulton County, Pennsylvania—Project Manager, facility assessment, procurement and implementation assistance; general consulting
- State of Missouri—Next Generation PSAP assessment
- State of Maryland—Next Generation PSAP assessment
- Bedford County, Pennsylvania—Project Manager, facility transition, procurement and implementation support, general consulting
- Adams County, Pennsylvania—Project Manager, 800 MHz trunked radio system development, procurement and implementation
- Crawford County, Pennsylvania—Project Manager, PSAP assessment, facility evaluations for future PSAP
- Bradford County, Pennsylvania—Project Manager, EMA/9-1-1 Executive Director hiring assistance
- Juniata County, Pennsylvania—Project Manager, general consulting; site-specific wireless accuracy testing services and design and procurement support/project management and implementation support
- Union County, Pennsylvania—Project Manager, general consulting
- Wayne County, Pennsylvania—Project Manager, 9-1-1 network assessment and recommendations
- Local Emergency Management Coordinator (2006-Present)

KENNETH W. KINDER, P.E. POTESTA Civil/Site Engineer



PROFESSIONAL REGISTRATION

Professional Engineer, WV Board of Professional Engineers

CERTIFICATIONS

Troxler Nuclear Density Equipment Operator, 2001 Humboldt Scientific, Inc. HAZMAT Training Certification, 2005

EDUCATION

B.S. Civil Engineering, 2003, West Virginia University Institute of Technology, Montgomery, WV

EMPLOYMENT HISTORY

2003-Present, Potesta & Associates, Inc. May 2000 - Potesta & Associates, Inc. May 2003 1995-2000 Eagle Surveying, Inc.

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)

AREAS OF SPECIALIZATION

Civil/site design, hydrology analysis, hydraulic design, stormwater management, floodplain management, erosion and sediment control, wastewater treatment, computer modeling associated with hydrology and hydraulics, geotechnical, construction monitoring, computer aided drafting, land surveying.

PROFESSIONAL EXPERIENCE

Civil/Site Design

Developed a civil site design for a proposed petroleum storage tank farm in Raleigh County, WV. Tasks included preparing a boring layout for geotechnical drilling, boring observation, preparing construction drawings to show proposed grading, and determining the volume of excavation required. Coordinated the design of reinforced concrete foundations and slab with structural engineer.

Assisted with the civil site design for the Spring Hill Apartment Complex in Charleston. Tasks included regrading the site to accommodate new housing facilities, design of the storm drainage system, and meeting stormwater runoff requirements of the City of Charleston.

Assisted with the civil site design for a proposed pharmacy school building for the University of Charleston. Tasks included preparing a proposed grading plan, coordinating connections to existing utilities, and assisting with stormwater management.

Hydrology and Hydraulic Design

Completed the design of proposed ephemeral and intermittent stream mitigation channels on several projects located at active and reclaimed mine sites. Tasks included delineating drainage areas, computing runoff, and designing stream channels with a main channel to contain a 1-year to 2-year storm event and a riparian zone which would contain a 10-year storm event.

Joint Operations Center West Virginia National Guard

Assisted with the design of a proposed gravity and force main sewer line project to convey sanitary sewage and landfill leachate. Tasks included coordinating the location of sewer taps, hydraulic design of the system, preparing permit applications, preparing construction bid documents, and preparing an estimate of probable construction costs.

Completed hydraulic design of components associated with three membrane bioreactor (MBR) wastewater treatment plants. Tasks included sizing gravity and force main process piping, slidegates, flow control weirs, and other components for head works and tail works of the treatment plant.

Stormwater Management

Performed a stormwater runoff evaluation for the existing Wal-Mart in Lewisburg, WV. Tasks included evaluating the performance of an existing stormwater management pond and redesigning the outlet structure to meet the pre-development peak runoff flows. PondPack was utilized to model the two stormwater management ponds, which were located in series.

Modeled the drainage system of the Mingo Logan Coal Company Mountaineer Mine using the SedCad software. The hydrologic evaluation was conducted to meet the requirement of a West Virginia Division of Environmental Protection (WVDEP) Surface Water Runoff Analysis (SWORA) which requires that during-mining and post-mining flow rates shall not exceed pre-mining flowrates. The modeling included the evaluation of existing drainage structures and several proposed structures.

Completed the hydraulic design of a stormwater collection system (storm sewer) for a proposed apartment complex in Mason County, WV. Tasks also included the design of a sedimentation pond to meet the WVDEP NPDES construction stormwater requirements. The sedimentation pond was designed to be converted to a permanent stormwater control structure upon completion of construction.

Erosion and Sediment Control

Modeled the drainage system of the Mingo Logan Coal Company Mountaineer Mine using the SedCad software. The hydrologic evaluation was conducted to meet the requirement of a WVDEP SWORA and also include a sedimentologic evaluation. The modeling included the evaluation of existing drainage structures to determine which structures were most efficient at treating sediment laden runoff. Inefficient structures were updated and additional structures were proposed to reduce the sediment discharge to an acceptable concentration.

Assisted with the preparation of several WVDEP NPDES construction stormwater permit applications including two projects associated with construction of the King Coal Highway in Mingo County, WV, which included nearly five miles of roadway and over 30 erosion and sediment control structures. Tasks included computing peak flow rates, design of erosion and sediment control structures, and developing Stormwater Pollution Prevention Plans.

DAVID B. SHARP, P.E. POTESTA Geotechnical Engineer



PROFESSIONAL REGISTRATION

Registered Professional Engineer: West Virginia, Pennsylvania, Maryland, Ohio and Kentucky

PROFESSIONAL CERTIFICATION

40 hour Hazardous Waste Site Operations and Superfund Worker Protection Training Troxler Nuclear Densometer Certification
American Red Cross Standard First Aid and CPR Training

EDUCATIONAL BACKGROUND

M.S. Civil Engineering, 1995, West Virginia University B.S. Civil Engineering, 1993, West Virginia University

AREAS OF SPECIALIZATION

Involved with many aspects of civil engineering with a special interest in the geotechnical/environmental aspects. Responsibilities have included projects involving Civil Site Design, Geotechnical Design; Solid Waste Management Facility Design including geosynthetic applications; hydrologic, hydraulic design; transportation/highway projects, including geotechnical and right-of-way plans; and municipal water and wastewater projects.

PROFESSIONAL EXPERIENCE

Miscellaneous Foundation Projects

Engineer responsible for performing subsurface investigations, preparation of geotechnical reports, coordinating laboratory analysis programs, providing recommendations for lateral earth pressures, bearing capacities, modulus of subgrade reactions, settlements, and construction specifications for multi-story structures. Foundations considered have included steel H-piles, auger-cast piles, drilled piers, spread footings, and mat foundations.

- WVARNG Readiness Center, Summersville, West Virginia
- Residence Inn, Morgantown, West Virginia
- Suncrest Executive Office Plaza and Parking Garage, Morgantown,
- West Virginia
- WVU Luxury Box for Mountaineer Field, Morgantown, West Virginia
- WVU Research Park, Morgantown, West Virginia
- View at the Park Apartment Complex, Morgantown, West Virginia
- Three 3-story Apartment Complex, Morgantown, West Virginia
- Baptist Church, Morgantown, West Virginia
- Marriott Hotel, Morgantown, West Virginia
- Bucks Tavern, Morgantown, West Virginia
- Stouts Run United Methodist Church Addition, Parkersburg, West Virginia
- Fairfield Inn Hotel, Fairmont, West Virginia
- Wendy's Restaurant, Morgantown, West Virginia
- Sunoco Service Station, Robinson Township, Pennsylvania

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- Numerous Residential Geotechnical Projects, Morgantown and Charleston, West Virginia
- St. Stephens Baptist Church, Morgantown, West Virginia
- Islamic Center, South Charleston, West Virginia
- Oak Hill Public Library, Oak Hill, Ohio
- Westside High School, Oceana, West Virginia

I.A. Construction, Harrisburg, Pennsylvania

Responsible for the design and construction recommendations for a braced temporary soldier beam and lagging retaining wall for the construction of a sewer line to be located 30 feet below the existing ground surface.

The Winter Construction Company, Tampa, Florida

Performed monitoring and analysis of pile load test on auger cast piles for a proposed 5-story hotel in Huntington, West Virginia.

Geotechnical Projects for Department of Transportation

Involved with the layout of the boring plan, staking borings in the field, preparation of the boring contract documents, soliciting bids, awarding drilling contracts, monitoring of drilling operations, coordination of laboratory testing programs, preparation of boring diagrams, and preparation of subsurface exploration report foundation recommendations and slope reviews for various West Virginia Department of Transportation Projects:

- Platinum Drive Urban Connector, Bridgeport, West Virginia
- Segment of WV State Route 2, Moundsville, West Virginia
- Segment of National Road, Wheeling, West Virginia
- Segment of North Bridgeport Bypass, Bridgeport, West Virginia
- Corridor H, Section IV, Davis, West Virginia
- Sulphur Springs Bridge, Hundred, West Virginia
- Dry Run Interchange, Martinsburg, West Virginia
- Interstate 81 Hainesville, Bessemer & Tuscorora Creek Bridges, Martinsburg, West Virginia

Morgantown Utility Board, Morgantown, West Virginia

Project Manager responsible for the field surveying and development of site plans for a storm water improvement project located in the Poponoe and Burroughs Run drainage basins. The project included seven detention basins and several culvert replacements.

Becdir Construction Company, Clarksburg, West Virginia

Engineer responsible for performing a value engineering design for the foundation for an interstate bridge near Clarksburg, West Virginia. The structure included a previously designed H-pile foundation system that was modified to a drilled shaft foundation system to the close proximity of an adjacent roadway and underground utilities. This project also included a structural evaluation for the proposed construction sequencing arrangement and the structural evaluation of the installed drilled shaft foundation after a previously installed cross hole logging system indicated the potential for questionable quality concrete.

VICTOR M. DAWSON POTESTA Survey Manager



PROFESSIONAL REGISTRATIONS

Registered Land Surveyor, North Carolina, South Carolina, West Virginia

EDUCATIONAL BACKGROUND

A. S. Land Surveying, Glenville State College, Glenville, West Virginia

PROFESSIONAL AFFILIATIONS

North Carolina Society of Land Surveyors
South Carolina Society of Land Surveyors
West Virginia Association of Land Surveyors
American Congress on Surveying and Mapping
West Virginia Association of Land Surveyors, Greater Kanawha Valley Chapter, President, 2003
West Virginia Society of Professional Surveyors, 2005-2006

PROFESSIONAL EXPERIENCE Military

- Seymour Johnson Air Force Base, United States Air Force, Goldsboro, North Carolina. Crew Chief.
- St. George Harbor, U.S. Corps of Engineers, St. George Island, Alaska. Contractor Quality Control Representative.
- Camp Butner, United States Army, Durham, North Carolina. Crew Chief.

Office, Business and Industrial

- National Lumber Plant Site, Roane County, West Virginia. Work included boundary and topographic survey, construction stakeout for plant site. Crew Chief/Survey Supervisor.
- Buckskin Council Boy Scout Camp, Boy Scouts of America, Pocahontas County, West Virginia. Work included topographic survey and construction stakeout for new water and sewer system. Survey Supervisor.
- Hampton-Clarke, Philips Lighting Company, Fairmont, West Virginia. Work included boundary and topographic survey, construction stakeout for cullet pile of hazardous waste site. Crew Chief/Survey Supervisor.
- BIDCO, Kanawha County, West Virginia. Work included boundary and topographic survey of several parcels in the development, also stakeout of spec building and parking lots.
- Bojangles, Sam Furr Road, Charlotte, North Carolina. Crew Chief/Project Manager.
- Lowe's of Pineville, Pineville, North Carolina. Crew Chief/Project Manager.
- Firestone Fibers and Textiles, Kings Mountain, North Carolina. Crew Chief/Project Manager.
- Rural Hills, Mecklenburg County, North Carolina. Crew Chief/Project Manager.
- Huntersville Business Park, Huntersville, North Carolina. Crew Chief/Project Manager.
- TransWest Office Building, Charlotte, North Carolina. Crew Chief.
- Chatham Properties, Charlotte, North Carolina. Crew Chief/Project Manager.
- WTVI Transmitter Tower, Charlotte, North Carolina. Crew Chief/Project Manager.
- Greenbrier Business Park, Charlotte, North Carolina. Crew Chief/ProjectManager.

Joint Operations Center West Virginia National Guard

Utilities

- Cogentrix Energy, Cogentrix, Marshall County, West Virginia. Work included GPS control survey of project area, boundary survey of 292 acres, topographic survey of 177 acres for site construction, courthouse research. Surveying Supervisor.
- Big Sandy Peaker Plant, Constellation Power, Cabell County, West Virginia. Work included GPS control survey of project area, boundary and topographic of 42 acres, boundary and route survey for 1 mile of transmission lines, construction stakeout. Crew Chief/Surveying Supervisor.
- Paintsville Power Plant, Energy Services, Paintsville, Kentucky. Work included control and topographic survey of an 180-acre site for proposed power plant, construction stakeout. Survey Supervisor.
- Greenbrier Pipeline, Dominion, West Virginia, Virginia, and North Carolina. Work included control and preliminary route survey of a 264-mile pipeline running from Corton, West Virginia to Raleigh, North Carolina. Survey Supervisor.
- Upshur County Power Plant, Dominion, Upshur County, West Virginia. Work included control survey and construction survey of a 170-acre power plant. Survey Supervisor.
- Cellular telephone tower sites, Nextel, West Virginia, Kentucky, and Ohio. Work included courthouse research, boundary and topographic survey for 86 tower locations. Crew Chief/Survey Supervisor.
- West Virginia-American Water Company. Work included boundary survey for 180 water tank sites throughout West Virginia. Crew Chief/Survey Supervisor.

Colleges/Universities

- University of Charleston, Charleston, West Virginia. Work included boundary survey of several parcels of land for student housing and parking lot. Crew Chief/Survey Supervisor.
- Marshall University, Charleston, West Virginia. Work included boundary and location survey of research complex. Survey Supervisor.
- Marshall University, Huntington, West Virginia. Work included courthouse research, boundary and topographic survey of several city blocks for student housing and parking buildings. Crew Chief/Survey Supervisor.

Resume



Douglas R. Richardson, PE, LEED AP President/Structural Engineer

Education

North Carolina State University, (8/87-5/89).

Masters of Science in Civil Engineering, major in structures and minor in construction.

GPA 4.0/4.0.

West Virginia University, (8/83-8/87)

Bachelors of Science in Civil Engineering.

Ranking: 1st out of approximately 450 College of Engineering graduates. GPA 3.98/4.0.

Professional Registration

Professional Engineer - WV #11699, MS #12349

Maintains active record with NCEES to facilitate prompt registration in additional states as required.

LEED Accredited Professional

Professional Affiliations

American Society of Civil Engineers

American Concrete Institute

American Institute of Architects, Professional Affiliate

Structural Engineering Institute

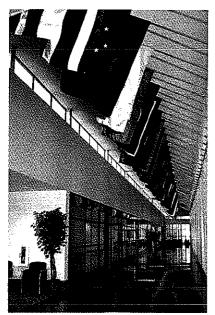
Timber Framers Guild

US Green Building Council













West Virginia Army National Guard Project Experience

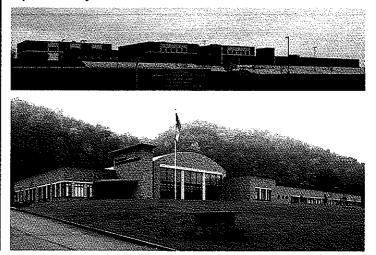
Douglas Richardson has provided the structural engineering and design for the following projects:

Robert C. Byrd Regional Training Institute - Camp Dawson, WV

Armed Forces Reserve Center - Camp Dawson, WV Armed Forces Reserve Center - Glen Jean, WV Construction & Facilities Management Office -Charleston, WV

Mountaineer Challenge Academy - Camp Dawson, WV Armed Forces Reserve Center - Elkins, WV Multi-Purpose Building - Camp Dawson, WV

These six facilities total over 460,000 square feet of built space, and each serves as a outstanding example of how a military structure can enhance the readiness of the units they support while also contributing to the local, state and national communities in which they are located. The structural systems utilized include steel frames, reinforced concrete and masonry, load bearing cold-formed steel studs, and long span steel joists.



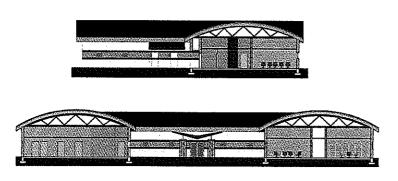
Section 3.0 Experience with Similar Projects

The following pages include descriptions of selected projects that have relevance to the proposed Joint Operations Center.

West Virginia ANG 130th Airlift Wing Communications Facility

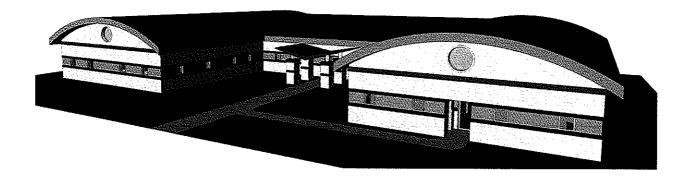
GRW provided Type A and Type B design services for a new \$3.6 million Communications Facility at Yeager Airport in Charleston, WV. The initial program included an 8,000 SF Joint Operations Center (JOC) for use by the WV ANG and ARNG during emergencies; however, the JOC was later eliminated from the project.

This 13,100 SF (1,217 SM) **LEED Silver** facility was designed to provide a centrally located common user communications system for both intra-base and off-base communications. Various types of cable from the base transmitter and receiver as well as other base communications systems will be normally fed through this structure. Ground control of all ground point-to-point contact and air to ground point-to-point contact (such as radio, telephone, DISNET, etc.) may be exercised from this facility.



This building includes space for:

- Telephone Exchange 1 (Base PBX Switching Gear). The switching center is composed of switchboard positions, electromechanical and/or electronic switching equipment, emergency power plant, terminal equipment, distributing frame, relay racks, inside cable, wiring, cable vault, Uninterruptible Power Supply (UPS), back up generator and operating appliances.
- Defense Switched Network (DSN) Equipment.
- Administrative Functions. Includes office space for communications officer and assistants, intra-base radio management, the base message distribution center, crypto storage vault, crypto accounting, commercial communications offices, storage space for communications records, magnetic tapes, message paper and message tape.
- Maintenance Functions. Includes space for the chiefs of maintenance and systems (COM/COS), training of system/support flight personnel, training of maintenance and operations personnel and programming personnel.



- Audio/Visual Function. Provides space for the production, filing and presentation of audio/visual materials, graphic arts, and visual aid products used in training, conferences, briefing, and similar activities.
- Audio/Visual Library. Provides space for customer service, administration, audio/visual equipment storage, maintenance and training, and a previewing room.
- Graphic Arts Facility. Provides space for an artist or illustrator, work and production areas, copy/reproduction, composition and lettering, copy camera equipment, tools and accessories, display, master artwork, and reference materials and catalogues, as well as specialized drafting equipment, tools and accessories.

The design of this facility also included AT/FP measures, fire detection and alarm, ADA compliance, landscaping, utilities (water, sewer, gas, electric, etc), special hazardous materials storage spaces, parking areas and exterior signage and lighting. The design was stopped at 65% complete at the convenience of the government due to the need to update the base's master plan and re-prioritize new capital improvements.

"From the Communications Building to the Master Plan, GRW has shown many of the traits that we look for in an A/E Firm. They have offered us outstanding solutions. They have shown their commitment to our unit by always going above and beyond; I know that I am extremely proud to have had them on our projects." — Comment from Lt. Col John Dulin 130th AW/CES

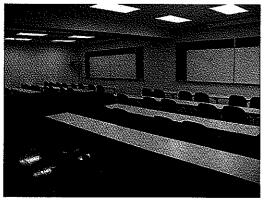
Client Contact: Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, 1679 Coonskin Drive, Charleston, WV 25311-5010. Telephone: (304) 341-6270

Indiana ANG 122nd Fighter Wing Security Forces Operations and Training Facility



GRW was selected by the 122nd FW to provide Type A and Type C A/E services for the design-build of a new 18,494 SF Security Forces Operations and Training Facility, including a Combat Arms Training and Simulator/Combat Arms Training Maintenance (CATS/CATM) area, in Ft. Wayne, IN. This facility includes offices for the Flight Chief, open office area for the base security forces, classrooms, workout room, locker room, weapons simulator room and weapons storage areas. The demolition of a 3,000 SF building was also included in the project.

The Security Forces Operations and Training Facility is connected to a base-wide Energy Management Control System. The Security Forces facility includes the Central Security Control (CSC) system for the entire base. The Security Forces and CATS/CATM facilities are wired for communications, security monitoring, intrusion detection systems, LAN, intercom, CCTV, and CATV. The CATS/CATM houses a Weapons Simulator for security forces training.



Under this assignment, GRW developed a detailed Project Book and concurrently completed a Type A1 Conceptual Design submittal. The conceptual design included design analysis, building descriptions and drawings. The conceptual design provided details of all rooms, along with their functional requirements in accordance with all applicable codes, criteria and ANG design standards. A preliminary construction cost estimate was also prepared. The objective of this effort was to ensure that a low life cycle cost, low maintenance, mission compliant facility could be built within the Maximum Construction Cost (MCC) limitation of \$3.86 million based on

FY07 construction, excluding contingencies.

The design-build Bridging Documents were prepared so that the actual construction cost (Base Amount plus Additive Bid Items), will not exceed the MCC. The construction cost estimate separately identified the Base Bid Amount and each ABI. Each ABI was described on the drawings and listed in priority order so that they could be added to the project if the total cost remained within the MCC.

"It is with pleasure that I highly recommend GRW. Your construction documents are always of the highest quality and you have bet our budget and schedule needs, even at times when it has been necessary to make adjustments to our own funding and schedule requirements. Wheter you have been tasked with planning services, design or construction administration, GRW has exceeded our expectations by continuously providing the expertise and guidance we have needed."

Comment from James W. Starnes, LT COL, INANG, Base Civil Engineer.

Client Contact: Lt Col James Starnes, Base Civil Engineer, Indiana Air National Guard, 122nd Fighter Wing, Fort Wayne, IN 46809. Telephone: (260) 478-3252

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair

GRW is providing multi-discipline design and construction administration services for renovations and energy-efficient improvements to the 25,765 SF Squadron Operations Facility at the WV Air National Guard Base at Yeager Field, Charleston, WV. Constructed in 1977, this facility was built as a three-story, 18,265 SF building, and housed the Base Operations and Dining Area. In 1990, a two-story addition of 7,500 SF was constructed on the east end of the facility to increase space needed for airfield operations. The Dining Area was later relocated to another facility and its space was renovated for a Fitness Center and an Intelligence/Tactics unit. Other renovations and relocations made within the facility over the years have resulted in a building that now inadequately serves its current users, which include Administration and Operations (Category Code 141-753), Base Operations (141-453), Command Post (141-461), Life Support and Fitness Center (740-674).

The facility size meets the current ANG facility requirements (ANGH 32-1084) but the user spaces are not efficiently arranged, the HVAC and electrical systems are inadequate, roofs are in need of repair and the fire protection system does not comply with current codes. All of these factors contribute to a degradation of mission completion.

GRW began the project with a Charrette to review the facility requirements with a Design Working Group, consisting of user groups and other key stakeholders, to confirm the authorized functional space requirements of each activity in the facility, to develop alternative floor plans that overcome the current

deficiencies, and to validate the Government's construction cost estimate. A Concept Proposal Report and a Concept Development Report were prepared following the Charrette.

After considering the alternative floor plans, a plan was selected that meets the goals of the project while also achieving a more energy-efficient, sustainable facility. The final design will allow for the efficient use of space for Squadron personnel to perform their operations, maintenance and training activities in a modern, comfortable environment that is conducive to effective mission execution.

This project is being designed to achieve the USGBC **LEED Certified** rating and to meet other the requirements of the ANG Sustainable Design Policy. This facility will also meet the AT/FP requirements of UFC 4-010-01, and other applicable current ANG requirements and building codes including ADA accessibility guidelines.

"From the Communications Building to the Master Plan, GRW has shown many of the traits that we look for in an A/E Firm. They have offered us outstanding solutions. They have shown their commitment to our unit by always going above and beyond; I know that I am extremely proud to have had them on our projects."

Comment from Lt. Col John Dulin 130th AW/CES

Client Contact: Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, 1679 Coonskin Drive, Charleston, WV 25311-5010. Telephone: (304) 341-6270

McCreary U.S. Penitentiary and Satellite Camp

GRW led the design team, in conjunction with the contractor, for the design-build of this new \$124,000,000 prison in McCreary County, KY. Situated on a 430-acre site, the 533,000 SF prison complex includes 21 separate buildings. The main facility is an ADA-compliant maximum-security penitentiary housing 960 general population inmates and 120 segregation unit inmates. The campus

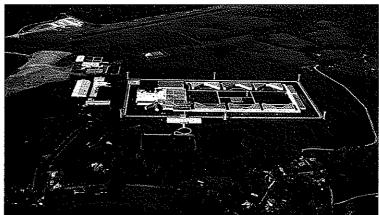
plan places the six, 2-story housing units, and program and multipurpose functions in a rectangular campus layout enclosing a centralized soccer, softball and basketball field/court area.

A summary of the prison's components include:

- Six two-story dormitory buildings
- One two-story segregation unit
- Administrative building
- Medical services building
- Recreational building
- Industrial/vocational buildings
- Academic educational buildings
- Multipurpose building
- Food service (kitchen/dining) building
- Personal services building (canteen, barber, laundry)









- General storage warehouse
- Central utilities plant
- Vehicle maintenance building
- Physical and electronic security systems
- Utilities
- Minimum-security camp for 128 inmates

Included within the engineering responsibilities were fire alarm,

perimeter security, closed circuit television, telephone, door control and monitoring, paging, intercom, inmate duress alarms, inmate telephone system, structured data cabling systems, control panels, consoles, and fiber optic cable distribution systems. These systems were integrated into

a functional security management and control system.

The project was divided into four design packages with interim schedules. All design packages met project deadlines, and the project was completed 15 days ahead of schedule.

Merit Award

- Design-Build Institute of America

Marvin M. Black Partnering Award

- Associated General Contracts of America

Engineering Excellence Honor Award

- American Council of Engineering Companies of Kentucky

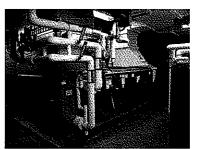
Client Contact: Gary Smith, Owner, Federal Bureau of Prisons, 500 First Street, NW, Washington, DC 20534. Telephone: (202) 616-6167





This project includes the site selection, needs assessment, design and construction documents for the city's new police station. The facility includes a 27,000 SF police station with a detention area, and a 7,000 SF evidence building. The building will use structural steel framing along with load bearing masonry and incorporate traditional local materials as well as modern elements. As well as being designed for future expansion, the building will use energy efficient materials and equipment suited for the area. Security systems for the project include an intercom system, multiple CCTV/DVR systems, intrusion detection systems and access control systems.

Client Contact: Bob Parker, City of Del Rio, TX, 109 W. Broadway, Del Rio, TX 78840. Telephone: (830) 774-8525





West Virginia ANG 130th Airlift Wing Communications Duct

This project is scheduled as a FY11 Sustainment, Restoration and Modernization (SRM) project for the 130th AW, with a project budget of \$610,000. In July 2010, the 130th AW selected GRW to provide design and construction administration services for this project. A Concept Development Report was initially prepared as the first step in the design phase for this project and it represents the collaborative efforts to date by the 130th Design Working Group (DWG) and GRW to select a preferred concept for a new duct system for routing the base's communications network to a new Communications Facility.

The base's current communications system uses a combination of overhead and buried cabling to extend communications throughout the base. This system is not looped and any disruption causes the base, or portions thereof, to be without necessary communications. Current overhead lines are overloaded and in many places the support poles are starting to fail. Construction of the new Communication Facility will require the communication system to be rerouted. If the proposed project is not provided, the Communication Squadron will continue to use an antiquated communications system to support the base. Future requirements in computing and communications will not be met. The security of information and the need to assure that all personnel are informed will be severely impacted.

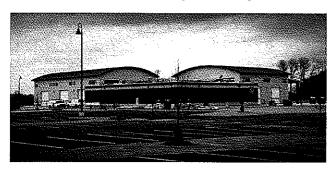
With the construction of a new aircraft hangar and the planned future construction of a new communications building, the fiber optic cable for the base network will consist of two ITNs (Information Transfer Nodes). ITN-1 will be located in the new Communications Facility and ITN-2 will be located in the new hangar, Building 407. All fiber optic cables from the mid- and lower-level base buildings will be routed to the new Communications Facility, which is to be built at the lower level, and all fiber optic cables from the upper area buildings will be routed to Building 407. The duct bank will carry fiber optic lines, television and coaxial cabling. The extended duct system will allow the current system to be looped and allow redundancy of assets.

A 4-duct and a 12-duct PVC conduit system with inter-duct, appropriately sized pre-cast manholes with reinforced foundation, is proposed. Sumps for drainage of infiltration will be installed in the manholes. The manhole lids will be lockable for security of the ducts. Once the ducts are constructed, the fiber optic cables will be installed by the Communications Squadron.

After the Concept Development Report was completed, the base decided to transfer further design work to the Communications Squadron for execution of this project under the design-build project delivery approach.

Client Contact: Lt. Col. John W. Dulin, Base Civil Engineer, West Virginia Air National Guard, 130th Airlift Wing, 1679 Coonskin Drive, Charleston, WV 25311-5010. Telephone: (304) 341-6270

Ohio ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex



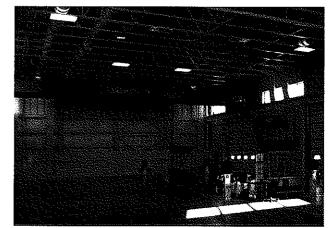
GRW provided full-discipline A/E services for planning, design and construction of a new \$14 million **LEED Silver** 85,865 SF Joint Armed Forces Reserve Center (AFRC) and Field Maintenance Shop (FMS) for the OH ARNG and the US Army Reserves in Springfield, Ohio. These facilities are designed to match the architecture of the facilities on an adjacent site occupied by the Ohio Air National Guard. Two unheated storage facilities are also included. Prior to

design, the GRW Team completed a Project Planning Document Charrette (PPDC) for this project. The AFRC is a 60,902 SF facility. It includes the following functional spaces:

- Administrative areas: Private offices, administrative common spaces, recruiting office, family support office
- Education spaces: Classrooms, COMSEC training, library and training center, distance learning, weapons simulator, training aid storage area, audio/visual area
- Assembly hall with fully functional kitchen and chair and table storage
- Storage areas: Heated unit storage rooms, facility maintenance, arms vault, unheated storage building

The 24,963 SF FMS includes:

- Administration area: Private shop offices
- Educational spaces: Classrooms and a library
- Storage spaces: Tools and parts storage, battery room, bulk POL storage, and lubrication system storage



- Flammable material storage and controlled waste facilities
- Work bays: 10 drive-through bays (6 for ARNG, 4 for USAR)

The AFRC/FMS complex includes:

- Full cutoff luminaires for site lighting to eliminate light trespass
- Occupancy sensor controlled interior lights throughout
- T5 low mercury, high-efficiency fluorescent lamps and electronic ballasts throughout for 38% (AFRC) and 15% (FMS) energy reduction over ASHRAE 90.1 baseline figures
- Energy submetering connected to building management system (DDC)
- Geothermal system for heating and cooling of the facilities
- Military and POV parking, wash platform, loading dock, access roads and ramps
- Site AT/FP measures, security lighting, utilities and landscaping

Electrical design for the facility included a 1,000 amp, 480Y/277 volt main service entrance. An exterior, padmounted 750 KW generator with weatherproof sound enclosure is used for emergency power backup. The diesel unit has a base fuel tank and 1,000 amp automatic transfer switch.

This project had a MCC of \$23 million. Using innovative design methods and alternative construction materials, GRW was able to optimize this project so that it was bid in September 2008 at \$14 million.

"I want to take this opportunity to tell you and your team how much the Ohio ARNG appreciated the design GRW produced for the Springfield AFRC and FMS. Of particular note was your Project Manager, Jimmy Piper, who did an outstanding job coordinating all design disciplines, incorporating the Ohio ARNG design comments, and following all required design guidance from the NGB to ensure all design submissions were timely and complete."

-- COL Robert C. Clouse, CFMO, Ohio ARNG

Client Contact: George McCann, Project Manager, CFMO, Ohio Army National Guard, 2825 W. Dublin-Granville Road, IMR-DP, Columbus, OH 43235-2788. Telephone: (614) 336-7413

Kentucky ARNG Joint Armed Forces Reserve Center and Field Maintenance Shop Complex, Bluegrass Army Depot



GRW served as the "Design Criteria Consultant" to the KY ARNG for the design-build of a new \$18.5 million Armed Forces Reserve Center (AFRC) and Field Maintenance Shop (FMS). This complex is designed to meet the **LEED Silver** sustainable design rating. The services provided by GRW included RFQ and RFP development, assistance in short-listing and final selection of the design-build team, construction administration and commissioning of the new facilities. These facilities serve units from the KY ARNG and US Army Reserves. Two unheated storage facilities (4800 SF and 2600 SF) are also included.

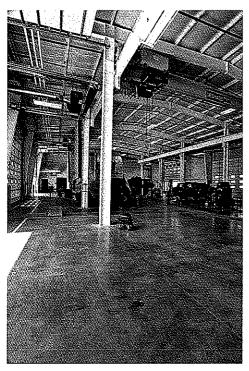
The AFRC is a 63,250 SF facility. It includes the following functional spaces:

- Administrative areas: Private offices, administrative common spaces, recruiting office, family support office
- Education spaces: Classrooms, COMSEC training, library and training center, distance learning, weapons simulator, training aid storage area,
- Assembly hall with fully functional kitchen and chair and table storage
- Storage areas: Heated unit storage rooms, facility maintenance, arms vault, unheated storage building

audio/visual area

- Building operating spaces and support spaces
 The 31,725 SF FMS includes:
- Administration area: Private shop offices
- Educational spaces: Classrooms and a library





- Storage spaces: Tools and parts storage, battery room, bulk
 POL storage, and lubrication system storage
- Building operating spaces and support spaces, unheated storage building
- Workbays: 12 vehicle workbays

The AFRC/FMS complex includes the following features:

- Military and POV parking, wash platform, loading dock, access roads and ramps
- Flammable material storage and controlled waste facilities
- Site AT/FP measures, security lighting, utilities and landscaping
- Energy management and control system, intrusion detection system, mass notification system

"You have provided us with outstanding service whenever we have called on you to respond to our needs. Your architects, engineers and other staff members are to be commended for their high level of expertise and professionalism. I will be pleased to recommend your firm to other states that are in the need of a design team for ARNG facilities."

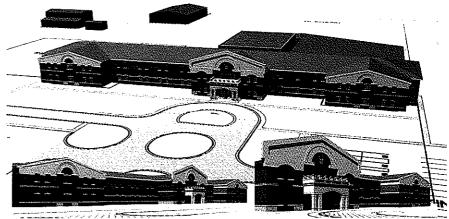
-- LTC Brian S. Demers, AIA, USP&FO, Kentucky ARNG

Client Contact: LTC Steve King, CFMO, Kentucky Army National Guard, Boone National Guard Center, 100 Minuteman Parkway, Frankfort, KY 40601. Telephone: (502) 607-1874

Indiana ARNG 76th Brigade Combat Team Readiness Center

GRW provided full-discipline A/E services for planning and design of a new 109,555 SF two-story Army National Guard Readiness Center in Lawrence, a suburb of Indianapolis, IN. This facility is located on a site that was formerly part of Fort Benjamin Harrison. An 8,300 SF unheated storage facility is also included. This Readiness Center includes the following functional spaces:

- Administrative areas: Private offices, administrative common spaces,
- Education spaces: Classrooms, COMSEC training, library and training center, distance learning, training aid storage area, audio/visual area
- Assembly hall with fully functional kitchen and chair and table storage
- Locker rooms, medical section room
- Storage areas: Heated unit storage rooms, facility maintenance, arms vault, unheated storage building
- Building operating spaces and support spaces



- Tool rooms, battery room, mechanical and electrical system rooms, communications equipment rooms
- RAPIDS, family support and recruiting offices
- Spaces for the future installation of a simulator or indoor range
- Flammable material storage and controlled waste facilities

This facility also includes the following features:

- Military and POV parking, wash platform, loading ramp and dock, access roads, helipad
- Site AT/FP measures, security lighting, utilities and landscaping
- Energy management and control system, intrusion detection system, mass notification system
- Emergency power generator
- Stormwater bio-retention pond

Client Contact: COL (ret) Jack Noel, Indiana Army National Guard, 2002 South Holt Road, Indianapolis, IN 46241. Telephone: (317) 247-3106

Texas ANG 136th Airlift Wing Security Forces Squadron Facility

GRW provided full architectural and engineering services for a \$4.5 million 17,400 square foot 2-story addition to the base's Wing Headquarters Building to house personnel and equipment for the unit's Security Forces Squadron (SFS). These services were completed to develop the conceptual design and bridging documents for this Design/Build project at NAS JRB Fort Worth (Carswell Field).

This facility includes command, control and administrative office spaces, a weapons simulator, an arms vault, classrooms, weapons and equipment storage and maintenance areas, locker rooms and restrooms, a fitness room, mobility equipment storage and utility vehicle storage.

GRW completed an initial programming Charrette, a Concept Proposal Report and a Concept Development Report to prepare the Bridging Documents for the Design/Build RFP. Topographic surveys, geotechnical investigations and geothermal tests were completed to develop a site-specific RFP. New utility systems (electrical, natural gas, water, sanitary sewer, storm sewer, communications) were provided with connection to base's DDC system to monitor and control energy utilization.

The facility was designed to meet the USGBC LEED Silver sustainable design criteria and EPAct 2005 energy efficiency

standards. This facility includes applicable Anti-terrorism/Force Protection measures, and was designed to adhere to the base's architectural, fire protection and communications standards.

GRW is providing construction administration services as the new facility is being built.

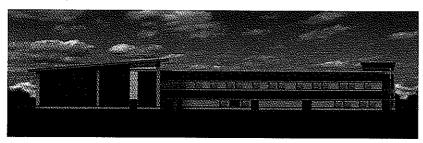
"It is with great pleasure that I recommend GRW. Their technical experience and professionalism have provided superior design documents, exceeding my expectations. The Design/Build Bridging Documents that GRW developed for the construction of a LEED Certified Silver Air Force Security Forces Training Facility is one of the best that I have ever seen. The level of detail and thoroughness of the documents allowed me to successfully award within the program budget and schedule."

-- Major Kevin A. McKinney, Base Civil Engineer, TX ANG

Client Contact: Major Kevin McKinney, Base Civil Engineer, Texas Air National Guard, 136th Airlift Wing, NAS JRB, 100 Hensley Avenue, Bldg. 1671, Fort Worth, TX 76127-1671. Telephone: (817) 852-3395



Kentucky ANG 123rd Airlift Wing Contingency Response Group Facility

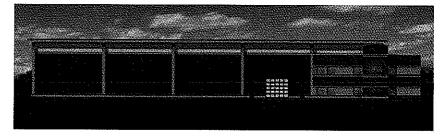


GRW is designing a 54,400 SF addition and 3,000 SF of modifications to the Wing Headquarters Building to house personnel and equipment for the 123rd Airlift Wing Contingency Response Group (CRG) at Standiford Field in Louisville, KY. The 123rd AW

is the second Air National Guard unit of its kind in the nation to receive the CRG mission. The CRG is an "airbase in a box" and can mobilize to provide everything necessary to open a runway, load and unload aircraft, provide security, housing and all the necessities to run an airfield in the event of a natural disaster

in the US or a deployment to a combat theater.

GRW led a Charrette to review the facility requirements with all user groups and other key stakeholders to confirm the authorized functional space requirements of all activities in the facility, to develop



alternative floor and site plans that satisfy those space needs, and to validate the government's construction cost estimate. A Concept Proposal Report and a Concept Development Report were prepared following the Charrette. Final Design is being completed by GRW in the next phase of the project.

The selected alternative is a masonry and standing seam roof addition which includes approximately 24,600 SF of administrative, food service and training space, a 24,500 SF storage area for 200 tons of mobility equipment and a 2,300 SF dining facility addition. The project also includes approximately 3,000 SF of renovation to the existing Services Flight and Security Forces Squadron area. The facility is being designed to meet the USGBC LEED Silver sustainable design criteria, EPAct 2005 energy efficiency standards and EO 13423. This facility will include applicable AT/FP measures, and will be designed to adhere to the base's architectural, fire protection and communications standards.

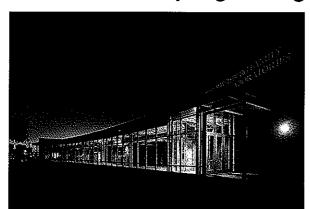
A critical feature of the design involved phasing the construction in order to minimize disruptions of ongoing functions in the Wing HQ Building; provide flexibility for the relocation of CRG personnel and equipment from existing facilities; and match construction funds which were appropriated in two separate fiscal years.

"Thank you for all the support on our most recent projects: the Installation Development Plan and the Contingency Response Group Facility. Your staff and subconsultants continue to go the extra mile providing collaborative thought during decision making periods, expertise and guidance, and accurate drawings and documents. GRW has exceeded our expectations in producing high quality, on-time and cost-effective products."

-- Lt Col Phillip R. Howard, Base Civil Engineer, KY ANG

Client Contact: Lt Col Phillip Howard, Base Civil Engineer, Kentucky Air National Guard, 123rd Airlift Wing, 1101 Grade Lane, Louisville, KY 40213. Telephone: (502) 413-4461

Marshall University Engineering Laboratory



GRW provided architectural/engineering services to Marshall University for a new Engineering Laboratory Building on their main campus in Huntington, WV. This 16,000 SF facility houses materials, soils, hydraulics, structural, and environmental laboratory space, as well as

classroom space and faculty offices. A building-wide access control system was provided to monitor usage and control entry.

The curved façade of the

building was designed to create a park-like plaza along the north edge of 3rd Avenue, giving a softened edge to what previously had been parking lots and pavement. Brick and other exterior building materials were selected to complement the adjacent campus buildings, thus giving a more unified appearance to the campus.

Client Contact: Ron May, Manager of Project Operations, Marshall University, One John Marshall Drive, Huntington, WV 25755. Telephone: (304) 696-6415



Cumberland County, Pennsylvania

Services Provided: Project Management, Facility Transitioning Planning and Consulting Services

Client Contact: Ted Wise, Public Safety Director, Cumberland County

1101 Claremont Rd Carlisle, PA 17013 717-240-6400

M

Project Dates:

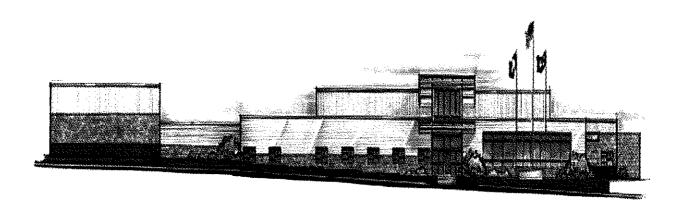
June 2010 to Present

MissionCriticalPartners

CHALLENGE: Cumberland County has purchased professional services for 9-1-1 project management, facility transition planning and consulting services. Senior Project Management is working with vendors and suppliers to keep the project on track, meeting all deadlines and moving into their new facility upon completion. Tasks include scheduling meetings, establishing multiple RFPs, scheduling coordination, installation, training, acceptance testing and commissioning of all systems.

SOLUTION: Mission Critical Partners, Inc. (MCP) used subject matter experts in Project Management to deliver on all contracted requirements. Mission Critical Partners created a Project Analysis Status Tool that serves as the one-stop shop for the location of meeting minutes, scheduled meetings, action item tracking and schedule coordination.

KEY RESULT: MCP assisting Cumberland County's smooth transition into a new fully operational facility upon completion in the third quarter of 2011.



Department of Homeland Security (DHS) / FEMA

Services Provided: Communication System Planning, Design and Implementation

Client Contact: Russ Gates, Senior Engineer

500 C Street, SW

Washington, DC 20472

202-212-2196

Project Dates:

May 2009 to Present



MissionCriticalPartners

CHALLENGE: DHS/FEMA is in charge of the planning, design and implementation of an integrated emergency communication system to support the joint FEMA/Department of Defense Chemical Stockpile Emergency Preparedness Program (CSEPP). FEMA has been mandated by Congress to plan, design and implement a program that provides maximum protection to the public who are located in the emergency planning zones surrounding the eight U.S. chemical weapons depot sites located in the United States. As part of this program, integrated emergency communication systems must be planned, designed and implemented.

SOLUTION: As a subconsultant, MCP provides communication system planning, design and implementation oversight in support of the CSEPP program throughout the eight U.S. chemical weapons stockpile locations. Services provided to integrate the federal, state and local emergency communication system include:

- 9-1-1 system planning and design
- Emergency operations center and 9-1-1 facility planning, design and implementation services
- Wireless voice and data communication systems to include UHF, 800MHz and IP broadband communications systems
- Public alert and notification systems to include EAS, sirens, PA systems and reverse 9-1-1 emergency notification systems
- Microwave, radio and fiber optic communication design services

KEY RESULT: MCP has been able to meet tight deadlines and provide innovative, cost-effective solutions to upgrade mission critical systems to support the FEMA CSEPP Program. FEMA has come to rely on MCP as its primary provider of mission critical communication services to support this program.

Morris County, New Jersey

Services Provided:

Risk Assessment and Technology Consulting

Client Contact:

Ed McDemus, Business Development Manager

292 Lafayette Street Newark, NJ 07105 908-722-2300

IAI

Project Dates:

September 2010 to Present

MissionCriticalPartners

CHALLENGE: Morris County has the need to expand their Emergency Management Operations Center and their 911 Center. The County has completed studies on where to locate a new facility. Morris County has decided to build onto their existing location and renovate some existing space that will provide them with a

state-of-the-art facility for not only the above offices but will include the Sheriff's Office Criminal Laboratory. The County wishes to transition viable technology to the new facility, without any loss of service to the citizens and public safety responders.

SOLUTION: USA Architects has partnered with Mission Critical Partners to provide experienced and knowledgeable staff that have planned and managed technology upgrades as part of a new facility/renovation, to be a part of the team. Senior

"MCP staff has become part of the overall team for Morris County, and has provided expert knowledge to the County on this project."

> —Sid McConahy, ENP, PMP Sr. Project Manager, Mission Critical Partners

Project Management staff is working as part of the team to ensure sufficient space is allotted for the technology equipment, to include power and cooling needs, throughout the planning, procurement and implementation phases. Tasks include conducting meetings to discuss current technology in use, incorporating the existing equipment that the County wishes to transition to the new space, as well as planning for future needs of the County and facility. Future work will be working with the team and the County on defining technology procurements, facility transition planning and consulting services.

KEY RESULT: MCP continues to work as part of the team and has come to a final design spacing plan that includes technology space requirements, as well as power and cooling requirements.

Pennsylvania Emergency Management Agency (PEMA)

Services Provided: Emergency Operations Center Facility Technology Integration Services

Client Contact: Dave Schrader, Architect

SCHRADERGROUP/AEComm Joint Venture Architecture

161 Leverington St., Suite 105 Philadelphia, PA 19127

(215) 482-7440

IAI

Project Dates:

April 2010 to May 2013

MissionCriticalPartners

CHALLENGE: Mission Critical Partners is a subconsultant for the technology design and move planning related to this new statewide 97,000 sq. ft. EOC facility. The Commonwealth of Pennsylvania has selected this team to develop the facility program, perform facility and systems design and provide oversight of construction and technology vendors. In addition, the Commonwealth has identified a very stringent schedule for construction and transition to the new headquarters. Once construction is completed, the technology in the EOC would be upgraded prior to occupation of the new center. Technology components of the new site are many and include support of the following elements:

- Pennsylvania Emergency Management Agency (PEMA) headquarters
- Offices of Homeland Security, the state fire commissioner, and the administration's radio project
- Joint Information Center (JIC)
- Senior Leader Situation Room
- Pennsylvania Department of Transportation Area Command
- Pennsylvania State Police Activation Watch Center
- Bureau of Radiation Protection Watch Center
- All Hazards Fusion Center with a sensitive compartmented information facility (SCIF)

"MCP was selected for their ability to integrate technologies into the complex building design, construction and transition process."

—David Schrader, Managing Partner

SOLUTION:

- Develop the list of mission-critical technology-sensitive systems in coordination with PEMA staff
- Hold final decisions on mission critical technology selection until as far along in the building construction
 - process as possible to assure the most current applicable technologies are considered in decisionmaking
- Coordinate technology with the master project construction schedule
- Integrate technology considerations and requirements into the building design specifications
- Integrate technology systems across the multiple tenant agencies in the building

KEY RESULT: Create a reliable, efficient, flexible, state-of-the-art and secure facility that houses the State Emergency Management Agency, State Fire Marshall, Office of Homeland Security and State Emergency Operations Center to better coordinate the planning, response and recovery to manmade and natural disasters.

West Texas Regional Consortium

Services Provided: Next Generation 9-1-1 Master Plan

Client Contact: Greg Green, Executive Director

Potter-Randall Emergency Communication District

405 SW 8th Avenue Amarillo, TX 79101 806-374-9800

IVI

Project Dates:

September 2009 to Present

MissionCriticalPartners

CHALLENGE: In the desire to begin the planning process for an emergency services IP-enabled network (ESInet) that serves and supports the West Texas region, the Panhandle Regional Planning Commission (PRPC) coordinated the creation of the West Texas Consortium. This consortium covers a land area in excess of 100,000 sq miles and includes the following organizations:

Concho Valley Council of Governments

■ Nortex Regional Planning Commission

Panhandle Regional Planning Commission

Permian Basin Regional Planning Commission

Rio Grande Council of Governments

South Plains Association of Governments

West Central Texas Council of Governments

Abilene—Taylor County 9-1-1 District

El Paso County 9-1-1 District

The Texas Panhandle Workforce Development Program

■ Emergency Communications District of Ector County

Howard County 9-1-1 Communications District

Lubbock Emergency Communication District

Midland Emergency Communications District

■ Wichita—Wilbarger 9-1-1 District

The Coalition of Health Services, Inc.

Potter—Randall Emergency Communications District

The Panhandle Regional Advisory Council, Trauma Services Area A

"The team at MCP exceeded my expectations in their ability to distill national, state and regional priorities into a workable framework for the advancement of NG9-1-1 for my agency and our project partners."

—Richard G. (Greg) Green, ENP, Executive Director, Potter-Randall Emergency Communication District

SOLUTION: Mission Critical Partners, Inc. (MCP) was retained to assist in this planning initiative and feasibility assessment. Specifically, MCP is focusing on three areas: governance of the regional network(s), funding of and for the network(s), and potentially available network resources. In collaborating with all of these consortium members, MCP assesses needs and identifies options that pertain to governance models, equitable cost-sharing mechanisms, and network resources.

KEY RESULT: MCP has delivered a report defining a path forward for the region to develop an interoperable emergency call delivery system. The client is seeking funding and advancing the program with factual data derived from the MCP report.











West Virginia Army National Guard Project Experience

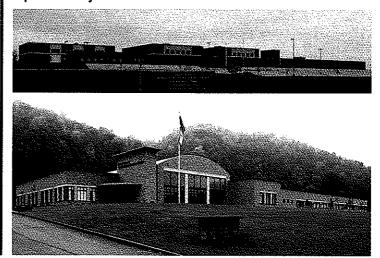
Douglas Richardson has provided the structural engineering and design for the following projects:

Robert C. Byrd Regional Training Institute - Camp Dawson, WV

Armed Forces Reserve Center - Camp Dawson, WV Armed Forces Reserve Center - Glen Jean, WV Construction & Facilities Management Office -Charleston, WV

Mountaineer Challenge Academy - Camp Dawson, WV Armed Forces Reserve Center - Elkins, WV Multi-Purpose Building - Camp Dawson, WV

These six facilities total over 460,000 square feet of built space, and each serves as a outstanding example of how a military structure can enhance the readiness of the units they support while also contributing to the local, state and national communities in which they are located. The structural systems utilized include steel frames, reinforced concrete and masonry, load bearing cold-formed steel studs, and long span steel joists.



West Virginia Army National Guard Gallagher Tunnel Drainage and Slope Stability Project

Center for National Training Response Center, Kanawha County, West Virginia

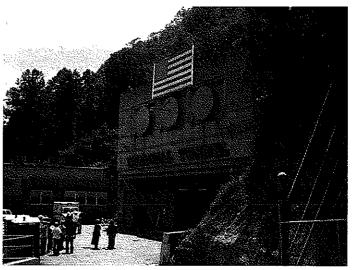
Potesta & Associates, Inc.'s work consisted of the planning, design, and preparation of contract documents of rock removal from a cut slope at the response center, design of the drainage and fill placement for a proposed parking area, and the restoration of the projected site. The work included:

- Survey and mapping the tunnel site and surrounding hillside area.
- Analysis of alternatives and recommendation for remedying the rock falling and drainage problems.
- Design of rock removal and installation of rockfall mesh, fencing, and reinforced barrier along the existing response center roadway.
- Construction of a parking area consisting of installation of fill material and gravel of drainage control items including:
 - 42-inch Reinforced Concrete Pipe (RCP) culvert, storm water manhole and headwalls.





Potesta & Associates, Inc. (POTESTA) working under contract with BBL Carlton, the construction contractor for the 130th Airlift Wing's Fuel Cell Hanger Project located at Yeager Airport prepared revisions to the site grading plan, as well as a Construction Storm Water Permit for the project. Site grading for the project required that the excavated material be hauled to two planned waste fill areas adjacent to an existing facility runway. POTESTA reviewed the site civil plans and made recommendations and alterations to the grading plans requiring additional engineering stormwater controls and best management practices required by the Construction Storm Water Section of the West Virginia Department of Environmental Protection. POTESTA prepared a stormwater management plan for the project. Additional material was also utilized to extend an existing valley fill near the WV Air National Guard's operations center which was utilized for storage and staging. POTESTA consulted with Guard personnel and construction crews related to the placement and compaction of the fill material, as well as the associated storm water control and conveyance structures adjacent to the fill. This additional fill area was also permitted through a modification to the current stormwater permit.



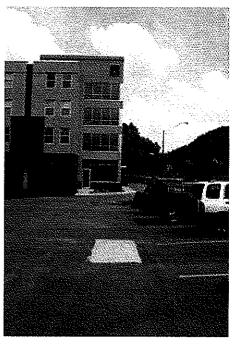


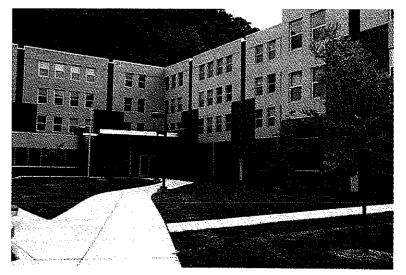
University of Charleston Brotherton Residence Hall Charleston, West Virginia

With the University of Charleston's first residence hall construction in over three decades, the design/build team looked to Potesta & Associates, Inc. (POTESTA) to assist with the typical site-related design associated with new building construction, as well as the most difficult siting problems.

Because the residence hall was sited on the edge of the campus abutting both residential properties and MacCorkle Avenue, the desires of the adjoining homeowners weighed heavily in the design of the vehicular and pedestrian circulation for the hall. A design team of personnel from POTESTA and the architectural firm presented several alternate schemes to meet the concerns of both the University and nearby homeowners.

After reaching consensus with these two groups, POTESTA provided asistance which resulted in receiving a favorable review of the plans by the City Planning and Engineering Departments. POTESTA prepared construction documents for the site layout, grading, storm drainage and utility extensions for this four-story structure.







4.0 Project Concepts and Approach

We recognize that each project has its own unique aspects and requirements, and we will adapt our approach to fit your requirements, schedule and needs. Ultimately, the design for this Joint Operations Center will satisfy your programmatic, budget, and operational requirements, and will be both functional and aesthetically pleasing.

Through the course of the design, we will work with you to identify ways of saving O&M costs and reducing energy needs. We will also work to identify possible alternative construction materials. Some of these recommendations may reduce construction cost, reduce utility costs, or both. These recommendations will be provided for your consideration and, if accepted, incorporated into the design. The final construction documents will include Bid Options that will allow the opportunity to select items that enhance the facility while still staying within the Maximum Construction Cost approved for this project.

Upon selection, we will schedule a Criteria Review Conference (CRC) with your assigned Project Manager to confirm the scope, objectives and schedule for this project. At this meeting, we will work with you to determine if additional site surveying or geotechnical data is needed, so that we might include those items as part of our proposal for design services.

After submitting and negotiating our design contract, we will issue a sub-contract (if needed) for surveying and geotechnical investigations. These tasks will be among the initial tasks completed at the beginning of the design phase.

We will also schedule and conduct a Program Planning Document Charrette (PPDC) with your PM and the facility users. This Charrette will include an analysis of the project site (including a topographic survey, a preliminary geotechnical study, an environmental review, a description of site hydrology and natural conditions, information related to utility services and a legal property description), a discussion of facility requirements (space allowances per NG Pam 415-12, functional requirements, adjacencies and spatial organization), a list of exceptions to criteria and a validation of the DD Form 1390/1391 project data (assigned personnel, space criteria) and a validation of the construction cost estimate.

Subsequent meetings and/or charettes will be held to confirm the detailed requirements for architectural finishes, electrical requirements, ventilation, communications, and other elements of all spaces within the facility. We will use this information to prepare a Basis of Design that will be used in calculating power, lighting, HVAC, fire protection and other services for the buildings. This information will also be used to confirm the final floor plan and finish schedule for the various spaces and functional areas in each building.

Since this project will involve the National Guard and multiple state agencies, and will require special communication expertise, GRW has retained the services of a specialty subconsultant, Mission Critical Partners (MCP), to assist with the unique programming and telecommunications aspects of this project. MCP will be heavily involved in the charette process, bringing their considerable expertise into the initial programming and planning for this project. Then, as the work progresses, they will assume design responsibility for the specialized communications infrastructure for the site and facility.

The design procedures we will follow are the same as those described in Chapter 11 of NG Pam 415-5, unless otherwise directed. These procedures will include the development of a Conceptual Design, which we will summarize and deliver in a Concept Design Report. This report generally represents 10-15% of the total design effort and serves as a bridge between the PPDC Report and the development of the construction documents.

At this stage, we will submit this project to the USGBC for registration under the LEED rating system, using

Joint Operations Center West Virginia National Guard

Version 3.0 for New Construction. We will identify to you the proposed LEED credits, along with the cost associated with each. This information will be used to verify with you the actual LEED credits to be pursued in the design and construction of the facilities.

The next step will be to incorporate the review comments from the Concept Design into a Preliminary Design submittal that represents approximately the 35% design completion of the construction documents. This submittal will include site and floor plans, building elevations, a room finish schedule, and descriptive information on the utility systems, HVAC and lighting systems, and other special systems. This submittal will also include preliminary technical specifications (CSI Divisions 2-16), general requirements (Division 1), an updated construction cost estimate, and supplemental design data and information, such as narrative descriptions of the building elements, engineering calculations and code analyses.

As the work progresses, an interim 65% design submittal will be provided for your review and approval.

A 95% design submittal will be presented to include the resolution of review comments from the previous submittals, final plans and specifications, cost estimate, bidding documents (Division 0), and supporting data as described in paragraph 11-4 of NG Pam 415-5. Following review and approval of the 95% design submittal, we will prepare a 100% final approved set of plans and specifications for advertisement for bids.

Since we assume that this project will be advertised for bids through the state's Purchasing Division, the required bidding information will be prepared using the state's forms and contract documents. Plan sets can be supplied to plan rooms and other locations where potential bidders and vendors can review them.

Copies of each design submittal will be furnished as hard copies and CDs, in the number needed for each agency to review. The project schedule will include time for reviews by each agency.

GRW will provide assistance during advertising and bidding of the project by answering RFIs, preparing Addenda, and attending the pre-bid site visit and bid opening. If requested, GRW will assist in evaluating the bids and will provide a tabulation of all bids.

As the project moves into construction, GRW will provide construction administration services in accordance with your requirements. These services will include, at minimum, regular visits to the site, review of shop drawing submittals, review of contractor's pay applications, and response to contractor RFIs. If desired, GRW will work with you to identify and retain the services of a local individual to provide resident inspection services.

These design procedures are not set in stone, as GRW prides itself on being a strong project manager driven organization without a lot of bureaucratic procedures that stifle creative people. We will work with you to make sure that our design services meet the requirements of the WV National Guard and the State of West Virginia. At all times we will remain flexible to accommodate your needs. The bottom line is that GRW cares a great deal about performing repeat business with the same clients, and we can't do that if you aren't happy with the quality of our work.

5.0 Past Performance

GRW has a proven record of accomplishment of delivering quality services to our clients nationwide. We adhere to well-developed policies and procedures to ensure quality control, quality of work, compliance with performance schedules and customer satisfaction. This section describes these policies and procedures. Copies of recent Letters of Appreciation from National Guard clients are provided to illustrate their satisfaction in our performance.

Cost Control

GRW's experience with cost control for military projects began when the firm started serving the DOD in the early 1970's. Now, almost 40 years later, we prioritize this element of a project on an equal level with the quality of our work. We recognize the significance of cost control as a key measure in successfully executing projects so that our DOD clients meet their own budget and schedule requirements and projects are able to receive design and construction funds in their programmed fiscal year.

We begin cost control in the early planning stages of each project, often during the Criteria Review Conference when the scope is resolved and the fee proposal is developed. At this time our Principle-In-Charge, the selected Project Manager and key discipline leads meet with the Contracting Officer, Contracting Officer's Representative and other Design Working Group members at the installation to visit the project site, review available information, and develop an agreed-upon technical approach for the project.

This allows us to reduce design costs if, for example, recent site surveys or soils investigations negate the need for us to conclude these tasks as part of the project. Based on experience with similar projects, we also look to find ways to site-adapt facilities where possible and to re-use conceptual designs completed for similar projects.

Quality of Work

The quality of our work is best demonstrated by the recognition we receive from the engineering industry and by the numerous awards our projects have won, both on a national and state level. Our projects have received awards from the US Air Force, the US Army Corps of Engineers, the American Institute of Architects, the American Council of Engineering Companies, and the US Environmental Protection Agency. Some of these awards are listed below:

- DBIA Award Kentucky ARNG Armed Forces Reserve Center and Field Maintenance Shop, Paducah, KY
- USAF Design and Construction Awards GA ARNG B-1B Beddown Plan; NV ANG Master Plan; USAF Academy General Plan; and Housing Redevelopment Plan, Kadena AB, Okinawa, Japan.
- USAF Agent and Design Excellence Award PACAF Award for Housing Redevelopment Plan, Kadena AB, Okinawa, Japan.
- USAF Citation Award for Planning Studies and Design Guides Nevada ANG Master Plan, Reno/Tahoe IAP, NV
- ACEC Honor Award, Associated General Contractor's Excellence in Construction Award, AGC National Partnering Award, DBIA National Award, and three other awards – US Penitentiary and Satellite Camp for US Bureau of Prisons, McCreary County, KY.

Compliance with Performance Schedules

Schedule control also begins at the Criteria Review Conference with the Design Working Group. We confirm the critical interim milestone dates for deliverables at this meeting. We also include dates for review comment feedback and progress meetings at the site. Dates are also established for Charrettes, both at the project site and at the JFHQ or NGB if needed. This schedule is verified in the project proposal and it becomes part of the Project Award and NTP.

We then prepare a Work Breakdown Structure (WBS) that subdivides each work element into manageable units of work this allowing all Project Team members to understand how their portion of a project fits into and coordinates with all of the other work elements being completed by others on the team.

This procedure has successfully allowed GRW to meet the National Guard's schedule requirements, even if it becomes necessary to accelerate the schedule due to delays in the TO Award or NTP.

Customer Satisfaction

GRW enjoys one of the highest percentages of repeat business in the A/E industry. Our clients recognize the superior quality of our work and the commendations we receive are a testament to the staff of GRW. We are continually rated by the "Engineering News-Record" and other professional publications as one of the best A/E firms in the country. While our total revenues are not at the same level as firms with tens of thousands of employees, it has been our client's opinion that GRW's size has nothing to do with the firm's performance on their projects. Instead, it is the close, personal service provided by our staff, combined with frequent, focused communication, and attention to detail that result in the continued retention of GRW for new contracts and tasks.

This record is the result of hard work by the GRW management and staff. We accomplish these results by focusing on the following:

- Providing dedicated, experienced project personnel who are committed to meeting the challenges of providing innovative, cost-effective designs.
- Training our staff to ensure they have the most effective design tools available for use, while remaining current with our client's design criteria and the application of new building codes and other evolving standards.
- Maintaining strong and frequent lines of communication, not only among members of the design team but also with our clients' key stakeholders.
- Following up with our clients after facility occupancy, not just to see if there are any unresolved construction issues but correcting any problems and finding ways to operate and maintain facilities more economically and effectively.

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

These efforts have been acknowledged by GRW's many ANG and ARNG clients.

"I would like to commend you for all of the excellent engineering services GRW has rendered to the 130th Airlift Wing. From the Communications Building to the Master Plan, GRW has shown the traits we look for in an A/E firm. You have shown a commitment to our unit by always going above and beyond our expectations. I look forward to working with you in the future."

Lt Col John W. Dulin, Base Civil Engineer, 130th AW, WV ANG

"I want to express my appreciation and gratitude for the highly successful design of our Lawrence Readiness Center. The process you used was extremely productive and efficient, due to the highly professional team assembled for this project and their willingness to meet our requirements and timeline. We are anxious to continue working with GRW."

LTC Steven R. Hines, Facilities Management Officer, IN ARNG

"I am pleased to highly recommend your firm to other states that are in need of a design team for ARNG facilities. Your team has been an excellent resource to us, and your architects, engineers and other staff are to be commended for their high level of expertise and professionalism."

MAJ Brian S. Demers, AIA, Construction and Facilities Management Officer, KY ARNG

"GRW worked tirelessly with the members of the 126th ARW during the design of our Flight Line Buildings. They stepped up to the challenge of the compressed schedule, completing each design phase in a timely manner. The acceptance of 'ownership' of this project resulted in an extremely good working relationship with the 126th."

Lt Col William Mell, Base Civil Engineer, 126th AW, IL ANG, Scott AFB

"The conversion of the GA ANG from F-15's to B-1B bombers and their relocation to Robins AFB was an extremely complex undertaking, further complicated by an expedited schedule. You not only met the schedule but also provided the base with an efficient Master Plan and facilities designs that are essential to us."

Colonel Grant Smith, GA ANG

"The Fuel System Maintenance and Corrosion Control Hangar designed by GRW was the best project ever done at this base, and was the only one done within budget and on time."

Clarence Deason, Construction Manager BCE Office, KY ANG, Louisville

"It's been a real pleasure working with you. What a difference it makes working with someone who knows how our side of the deal works vs. someone who doesn't. Thanks."

MSgt Tina Kubik, Contracting Officer, 130th MSC/MSG, WV ANG

The following pages include letters of appreciation written by several of our recent ARNG and ANG clients.



DEPARTMENT OF THE AIR FORCE 130th CIVIL ENGINEER SQUADRON (AMC) 1679 COONSKIN DRIVE CHARLESTON, WV 25311-5005

30 September 2008

MEMORANDUM FOR Mr. Pete Johnson, Director-Military Programs, GRW Inc.

FROM: BCE

SUBJECT: Letter of Commendation

- 1. I would like to commend you and your company for all of the excellent engineering services that they have rendered the 130th Airlift Wing. From the Communications Building to the Master Plan, GRW has shown many of the traits that we look for in an Architectural/Engineering Firm. They have shown their patients with our never ending changes and have each time rose to the occasion and offered us outstanding solutions. They offer their engineering and personal expertise ensuring successful completion on each project. They have shown their commitment to our unit by always going above and beyond our expectation.
- 2. GRW and its employees should be proud of the professional services that they have given to our unit and the nation; I know that I am extremely proud to have had them on our projects. I look forward to working with you and your team in the future.

JOHN W. DULIN, LtCol, WVANG

Base Civil Engineer



DEPARTMENT OF THE ARMY HEADQUARTERS, KENTUCKY ARMY NATIONAL GUARD BOONE NATIONAL GUARD CENTER 100 MINUTEMAN PARKWAY FRANKFORT, KENTUCKY 40601-6168

25 May, 2007

Mr. Pete Johnson, PE Director of Military Programs GRW, Inc. 801 Corporate Drive Lexington, KY 40503

RE: GRW Architectural and Engineering Services

Armed Forces Reserve Center and Field Maintenance Shop

KY ARNG, Blue Grass Army Depot, Richmond, KY

Dear Mr. Johnson:

I am pleased to write this **Letter of Recommendation** on behalf of the Kentucky Army National Guard for the excellent A/E services that GRW has provided for the development of the Design/Build documents for the Blue Grass Army Depot AFRC and FMS project.

Your firm has demonstrated excellent an understanding and knowledge of the requirements for this project and you have provided us with outstanding service whenever we have called on your firm to respond to our needs. Your design team has been an excellent resource for us, and your architects, engineers and other staff members are to be commended for their high level of expertise and professionalism. We look forward to a continuing relationship with GRW on this project and others in the future.

I will be pleased to highly recommend your firm to other states that are in need of a design team for ARNG facilities. Please do not hesitate to us me as a reference for such future assignments.

Sincerely.

Brian S. Demers, A.I.A.

MAJ, KyARNG

Construction and Facilities Management Officer

Kentucky Army National Guard

(502) 607-1481



INDIANA JOINT FORCES HEADQUARTERS NATIONAL GUARD

2002 SOUTH HOLT ROAD INDIANAPOLIS, INDIANA 46241-4839



9 October 2008

JFHQ-IN-FMO

PETER F. JOHNSON, P.E. Director of Military Programs GRW, Inc. 801 Corporate Drive Lexington, KY 40503

Dear Mr. Johnson

I want to take this opportunity to express my appreciation and gratitude to you and your team for what we feel will be a highly successful design of our Lawrence Readiness Center.

The design process that your team led us through has been extremely productive and efficient. There effectiveness was due in large part to the highly professional team you assembled for this project and their willingness to meet the owner's requirements and timeline.

We are anxious to see the project through to completion and the continued work with your staff throughout the process. Again, thank you and the team at GRW for the hard work and professional approach to this design of this facility.

Sincerely

Facilities Management Officer Indiana Army National Guard



INDIANA AIR NATIONAL GUARD HEADQUARTERS 122D FIGHTER WING (ACC) FORT WAYNE INTERNATIONAL AIRPORT (IAP) FORT WAYNE INDIANA 46809-3158

1 September 2010

Lt Col James W. Starnes
Base Civil Engineer and Commander
122nd CES, Indiana Air National Guard
3005 Ferguson Road
Fort Wayne, IN 46809

Peter F. Johnson, PE, LEED AP Director of Military Programs GRW Engineers, Inc 801 Corporate Drive Lexington, KY 40503

RE: Letter of Recommendation

Dear Mr. Johnson:

It is with pleasure that I highly recommend GRW Engineers, Inc. for A/E services. Your staff has provided, and continues to provide, exceptional service to the Indiana Air National Guard on projects such as our Security Forces Facility, our Installation Development Plan and our Aircraft Shelter project. Whether you have been tasked with planning services, design or construction administration for our projects, GRW has exceeded our expectations by continuously providing the expertise and guidance we have needed.

Your construction documents are always of the highest quality and you have met our budget and schedule needs, even at times when it has been necessary to make adjustments to our own funding and schedule requirements.

Your work has been appreciated by my staff and the leadership of the 122nd Fighter Wing. Please do not hesitate to refer future clients to me for further details. I can be reached at 260-478-3252 or james.starnes@ang.af.mil.

JAMES W. STARNES, LT COL, INANG

Base Civil Engineer



DEPARTMENT OF THE AIR FORCE 123D CIVIL ENGINEER SQUADRON

27 August 2010

Lt Col Phillip R. Howard Commander 1101 Grade Lane Louisville, KY 40213

Mr. Pete Johnson
Director of Military Programs
GRW Inc.
801 Corporate Drive, Suite 400
Lexington KY 40503

Dear Mr. Johnson

Thank you for all the support on our most recent projects, the Installation Deployment Plan and the Contingency Response Group Facility. Your staff and sub-consultants continue to go the extra mile providing collaborative thought during decision making periods, expertise and guidance and accurate drawings and documents. GRW has exceeded our expectations in producing high quality, on time and cost-effective products for the Kentucky ANG.

We've come to expect high quality work, GRW delivered for us in the past on projects like our Fuel Cell Maintenance and Corrosion Control Hangar Facility, and many other smaller projects. Please accept my appreciation for your outstanding efforts.

Sincerely,

PHILLIP Ř. HOWARD, Lt Col, KYANG

Base Civil Engineer

cc: file

6.0 Proposal Forms

This section includes the forms required by the State's Purchasing Division, as indicated in the Request for Quotation. These forms include the following:

- RFQ Forms
- Purchasing Affidavit



GRW

RFQ COPY

801 Corporate Drive

Lexington, KY 40503

T: (800) 432-9537

F: (859) 223-8917

TYPE NAME/ADDRESS HERE

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

Request for Quotation

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<u>304-558-2544</u>

DIV ENGINEERING & FACILITIES ARMORY BOARD SECTION

1707 COONSKIN DRIVE CHARLESTON, WV 25311-1099 304-341-6368

DATE PRINTED ... TERMS OF SALE SHIP VIA FOB. **FREIGHT TERMS**

02/01/2011 BID OPENING DATE: 03/15/2011 OPENING TIME 01:30PM QUANTITY UNIT PRICE LINE UOP ITEM NUMBER AMOUNT 0001 JΒ 906-00-00-001 ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV NATIONAL GUARD, DIVISION OF ENGINEERING AND FACILITIES, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A JOINT OPERATIONS FACILITY TO BE LOCATED IN THE VICINITY OF THE WEST VIRGINIA NATIONAL GUARD STATE HEADQUARTERS IN CHARLESTON, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS. TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, WIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLEƏWV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 2/23/2011 AT ANY TECHNICAL QUESTIONS THE CLOSE OF BUSINESS. RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED. 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. SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE C

(800) 432-9537

3/11/2011

ADDRESS CHANGES TO BE NOTED ABOVE

TITLE Vice President

FEIN 61-0665036

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

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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. 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.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and 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.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such rsonally identifiable information or other confidential information gained from the agency, unless the individual who is a subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. 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, and the West Virginia Insurance Commission. 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.
- 16. 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 material, 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.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. 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. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate ipping terms are clearly identified in the quotation.
- 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 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division,

is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



VENDOR

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

Request for

DEFK11028

·	
#ADDRESS CORRESPONDENCES OF ATTE	VITION OF

TARA LYLE 304-558-2544

RFQ COPY TYPE NAME/ADDRESS HERE

GRW 801 Corporate Drive Lexington, KY 40503

T: (800) 432-9537 F: (859) 223-8917

DIV ENGINEERING & FACILITIES ARMORY BOARD SECTION

1707 COONSKIN DRIVE CHARLESTON, WV 25311-1099

304-341-6368

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RFQ COPY

801 Corporate Drive

T: (800) 432-9537

F: (859) 223-8917

Lexington, KY 40503

GRW

TYPE NAME/ADDRESS HERE

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

Request for Quotation

DEFK11028

ADDRESS:CORRESPONDENCE TO ATTENTION:OF

TARA LYLE

304-558-2544

DIV ENGINEERING & FACILITIES ARMORY BOARD SECTION

1707 COONSKIN DRIVE CHARLESTON, WV 25311-1099

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RFO No. DEFK11028

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: GRW	
Authorized Signature: Share Lyl	Date: March 9, 2011
State of Kentucky	
County of Shelby , to-wit:	
Taken, subscribed, and sworn to before me this \coprod day	of <u>March</u> , 20 11
My Commission expires <u>July 6</u>	, 20 <u>14</u> .
AFFIX SEAL HERE	NOTARY PUBLIC XXXII DO



801 Corporate Drive Lexington, KY 40503 Tel 859 / 223-3999 Fax 859 / 223-8917 Engineering Architecture Planning

Fax Transmittal

No. of pages:	. <u> 4 </u>	including cover sheet	Date:	March 16, 2011
То:	Ms. Tara L	yle	Time:	
Company:	WV Dept. o	of Admin, Purchasing	Ву:	
Fax no.:	(304) 558-3	970		
From:	Louise Go	dshall, GRW		
Subject:	WVNG JOO	Addendum		
Project no :	DEFK1102	В		

Ms. Lyle, per our discussion this morning, attached is GRW's signed Addendum for RFQ# DEFK11028 (West Virginia National Guard Joint Operations Center). If you have further information about how we can sign up for the vendor's list in the future, please email me at Igodshall@grwinc.com.

Thank you again for your assistance.

E OF 91 BWW II



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

Request for

TARA LYLE 304-558-2544

RFQ COPY TYPE NAME/ADDRESS HERE DIV ENGINEERING & FACILITIES ARMORY BOARD SECTION **GRW** 801 Corporate Drive 1707 COONSKIN DRIVE Lexington, KY 40503 CHARLESTON, WV T: (800) 432-9537 F: (859) 223-8917 25311-1099 304-341-6368

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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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division

and have paid the required \$125 fee.

- 4. 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.
- Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- In the event the vendor/contractor files for bankruptcy protection, the State may deem 12. BANKRUPTCY: this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and 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.
- 14. 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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. 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, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending verify that the vendor is licensed and in good standing with the above entities.
- 16. 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 material, 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.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. 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 walve minor deviations to specifications.

3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.

4. 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 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



GRW

RFQ COPY

801 Corporate Drive

T: (800) 432-9537

Lexington, KY 40503

TYPE NAME/ADDRESS HERE

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

Request for
Quotation
DEFK11028

DEFK11028

TARA LYLE

304-558-2544

DIV ENGINEERING & FACILITIES ARMORY BOARD SECTION

1707 COONSKIN DRIVE CHARLESTON, WV.

25311-1099

304-341-6368

F: (859) 223	-8917		25	311-1099	304-3	41-6368	
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