The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1916937
Procurement Type: Central Purchase Order
Vendor ID: 000000218570
Legal Name: GRW ENGINEERS INC
Alias/DBA:
Total Bid: $0.00
Response Date: 03/17/2026
Response Time: 12:55
Responded By User ID: ksandino
First Name: Karri
Last Name: Sandino
Email: ksandino@grwinc.com
Phone: 859-223-3999

SO Doc Code: CEOI
SO Dept: 0603
SO Doc ID: ADJ2600000005
Published Date: 3/2/26
Close Date: 3/17/26
Close Time: 13:30
Status: Closed
Solicitation Description: Fire Department Facility Design- Camp Dawson Training Center
Total of Header Attachments: 1
Total of All Attachments: 1

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

State of West Virginia
Solicitation Response

Proc Folder:	1916937
Solicitation Description:	Fire Department Facility Design- Camp Dawson Training Center
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-03-17 13:30	SR 0603 ESR03172600000006052	1

VENDOR

000000218570
GRW ENGINEERS INC

Solicitation Number: CEOI 0603 ADJ2600000005

Total Bid: 0 **Response Date:** 2026-03-17 **Response Time:** 12:55:12

Comments: GRW appreciates this opportunity to respond to your solicitation regarding Architectural/Engineering design services for the Fire Department Facility at Camp Dawson Training Center, our CEOI is attached.

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Fire Department Facility Design-Camp Dawson Training Center				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

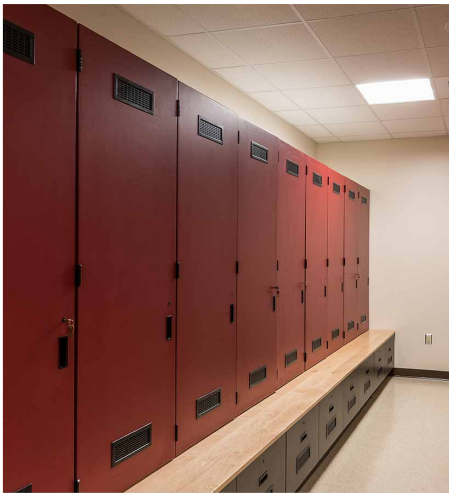
Provide professional architectural and engineering design services per the attached documentation.

EXPRESSION OF INTEREST

Camp Dawson Training Center Fire Department Facility – Design

WV Army National Guard |WV Department of Administration | CEOI 0603 ADJ2600000005

March 17, 2026



engineering | architecture | geospatial

GRW | engineering | architecture | geospatial
801 Corporate Drive | Lexington, KY 40503
859.223.3999 | www.grwinc.com

March 17, 2026

Mr. David Pauline, Senior Buyer
Department of Administration, Purchasing Division
State of West Virginia
2019 Washington Street East
Charleston, WV 25305-0130

RE: Fire Department Facility Design | Camp Dawson Training Center
Solicitation No.: CEOI 0603 ADJ2600000005

Dear Mr. Pauline and Selection Committee Members:

Achieving the goals you've established for the design of the Fire Department Facility at the Camp Dawson Training Center is important for the West Virginia Army National Guard's mission. GRW would like to work with you on this project – and we believe we offer you the right experience and expertise in Public Safety and Military Design to successfully deliver the results you require.

Experience and Familiarity. GRW is a full-service A/E design consulting firm that has been working with clients like you on similar projects throughout the region for more than 60 years. Our project team's experience with the National Guard is substantial and ranges from projects for both the West Virginia Army and Air National Guard, as well as reserve/readiness centers for the Kentucky, Ohio and Indiana Army National Guard. Our team includes Terracon as our geotechnical consultant. The firm's Charleston-based team also has experience with the WV National Guard. **See Sections 1.0 and 2.0.**

GRW and its subsidiary Chapman Technical Group (offices in St. Albans and Buckhannon, WV) also have extensive experience in developing projects with the WV Purchasing Division. For example, we have designed, bid, and constructed numerous, major Division of Natural Resources projects throughout the state, as well as projects for the Department of Highways. Although every agency has its own particulars with regard to bidding projects, our experience with the WVARNG and the State's Purchasing Division will help ensure effective and efficient project delivery.

We Are Committed to Your Success. Taking care to meet your goals for your budget and schedule is a priority, as it is on every GRW project. The ultimate measure of success is how well the completed project meets your needs and aspirations. To this end, our project team is committed to establishing an inclusive, methodical and logical approach to the design process. **See Sections 4.0 and 5.0.**

Thank you for your consideration and for the opportunity to work with you. We look forward to the next step in your selection process where we can present our additional ideas toward the successful completion of your project.

If you have questions about our qualifications or any other items, please feel free to call or email.

Respectfully submitted,

Aaron Nickerson, AIA, LEED Green Assoc.
GRW Architect / Senior Vice President
859-880-2267
anickerson@grwinc.com

engineering | architecture | geospatial

Expression of Interest

Fire Department Facility Design n Camp Dawson Training Center

CEOI 0603 ADJ2600000005

WV Department of Administration WV Army National Guard

Table of Contents

SECTION 1.0

GRW Introduction

1.0 GRW Introduction

About GRW

Founded more than 62 years ago, GRW is an employee-owned architectural, engineering and geospatial services firm with approximately 200 employees.

At GRW, we have the ability to address your projects from nearly every angle using our comprehensive in-house capabilities. We tailor our approach to each project, ensuring that our teams deliver quickly, with greater potential for accurate cost estimates, and fewer change orders.

Among our achievements, GRW is listed in *Building Design + Construction's Giants 300* report as one of the nation's top Architecture-Engineering firms. Also, since 1972, GRW also has been recognized nationally as a top producing firm by *Engineering News-Record*.

Our Corporate Culture

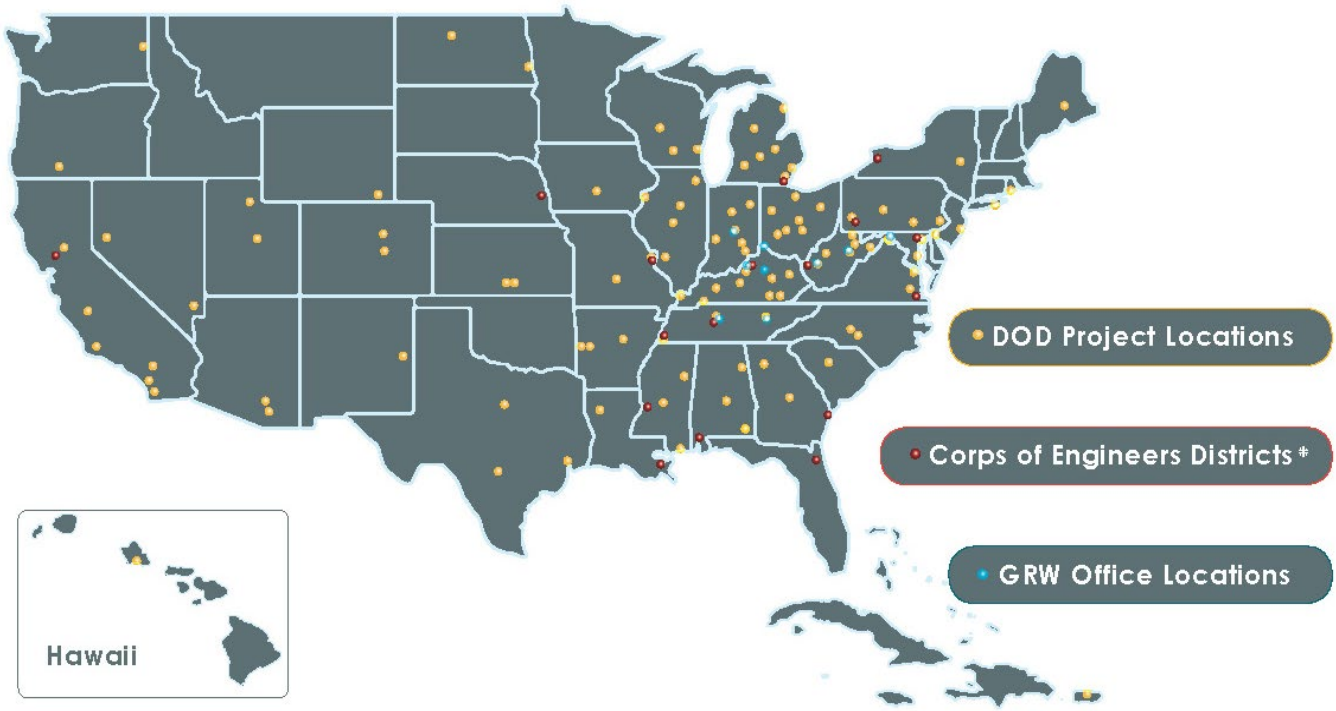
Our corporate culture is based on collaboration. Our project managers and their project teams are completely hands-on, from planning through construction phases.

At GRW, we know that business relationships are built on trust – the ability to trust your business partner to deliver on their promises. By choosing GRW for your professional services, you are choosing a company that delivers on our promises. You can expect our full attention starting on day one and extending to the day of project completion and beyond. **Listening diligently to your needs, and those of your stakeholders, is the hallmark of our approach**. Delivering projects that meet our clients' goals – honestly, reliably, and efficiently, time after time – is the reason why GRW has achieved a 90% rate of repeat business.

Department of Defense Experience

GRW brings to the table a wide-ranging body of military experience that includes work for the National Guard, U.S. Army, U.S. Air Force, the U.S. Army Corps of Engineers, and the Naval Facilities Engineering Command (NAVFAC). These projects include renovation and new construction work, as well as military master plans, and a broad range of geospatial services.

The map below provides a general geographic overview of where we have provided services to our military clients.



* U.S Army Corps of Engineers work encompasses multiple IDIQs and task orders in 18 Districts

OCONUS Locations: Kadena Air Base, Okinawa, Japan and Camp Lemonnier,Djibouti

GRW's Experience with the West Virginia Army & Air National Guard – Partial List

GRW has a long history of experience with the West Virginia Army and Air National Guard. Examples of many of these projects are shown on these pages. *Please note that the contacts listed for some of these projects may have been promoted or reassigned since the time of project performance.*

West Virginia ARNG Camp Dawson Ranges at Briery Mountain, Kingwood, WV – Project included design and construction of new Hand Grenade Familiarization Range and Live Fire Exercise Breach (LFEB) Training Range at Briery Mountain Training area to conform site to government standard Breach Range Design Requirements. Included design of access road to the remote site, electrical connections, breaching structures, open covered range operations and control shelter, storage building, dry latrine, covered viewing stands, and parking area. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Camp Dawson Live Fire Exercise Shoot House, Kingwood, 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. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Relocation of Camp Dawson Electrical Power and Communications Lines, Kingwood, WV – Study and design for 4-phase construction program to relocate overhead electrical power lines and communications lines (telephone, data, etc) to underground duct banks in order to eliminate historic problems associated with overhead services. Phase 1: 3000 LF of power line relocation to new underground duct banks, with the associated replacement of pole-mounted transformers with pad-mounted transformers (1000 KVA to 50 KVA). Phase 2: Relocation of communications service to new underground duct banks along Phase 1 route. Phases 3 & 4: Relocation of approximately 2000 LF of overhead power lines and overhead communications lines to new duct banks, respectively. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ARNG Camp Dawson Volkstone Training Area Utility Upgrade, Kingwood, WV – Expansion of sewer (1,996 LF), water (1,996 LF) and electric (1,797 LF) to all existing and future buildings, unit training equipment site (UTES) and wash rack locations. Also included design of Forward Operating Base (FOB) including 20 14' x 16' wooden buildings, new bath house for approximately 200 people and pavilion. **Client Contact:** MAJ Robert Kincaid, Jr., Range Operations Manager, (304) 791-4459, robert.j.kincaid.mil@mail.mil

West Virginia ANG 130th Airlift Wing Master Plan Update and CIP, Charleston, WV – 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. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Communications Duct, Charleston, WV – 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 to consist of two ITNs (Information Transfer Nodes); ITN-1 in the new Communications Facility and ITN-2 in new hangar, Building 407. Duct bank designed to carry fiber optic lines, television and coaxial cabling; allows looping of current system; and provides redundancy of assets. **Client Contact:** LtCol Rick Thomas, Base Civil Engineer

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. **Client Contact:** MG Melvin Burch, (304) 561-6458, melvin.burch@us.army.mil

West Virginia ARNG Readiness Center Commissioning Projects, WV – LEED Fundamental Commissioning for four building construction projects: Buckhannon AFRC - Phase I, 38,000 SF and $13,150,000 construction cost; Morgantown Readiness Center, 58,520 SF and $20,500,888 construction cost; Moorefield Readiness Center, 57,256 SF and $17,725,351 construction cost; and Logan Readiness Center, 58,520 SF and $14,296,326 estimated construction cost. Scope included all commissioning, coordination and documentation required for LEED certification on the HVAC systems and networked controls, the lighting control systems and the domestic hot water distribution systems. **Client Contact:** MAJ Daniel Clevenger, CFMO, (304) 561-6446, daniel.w.clevenger.mil@mail.mil

West Virginia ANG 130th Airlift Wing LOX Storage Relocation, Charleston, WV – 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 included 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). **Client Contact:** Capt. Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Squadron Operations Facility Repair, Charleston, WV – Design services for $3 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. Selected design allows for efficient use of space; HVAC, electrical and fire protection systems upgrade; and roof repairs. Designed to achieve USGBC LEED Certified rating, meet all ANG Sustainable Design criteria and utilize MILCON/SRM split funding. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

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 included combination of various construction materials including vitrified clay pipe (VCP) with dilapidated sections allowing high rates of inflow and infiltration during storm events. **Client Contact:** Col Rodney Neely, MSG Commander, (304) 616-5198

West Virginia ANG 167th Airlift Wing Maintenance Mall (Building 307) Repair, Martinsburg, WV – Concept Development Report for C-5 aircraft complex 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. **Client Contact:** Col Rodney Neely, MSG Commander, (304) 616-5198

West Virginia ANG 130th Airlift Wing Security Forces Squadron Facility Renovation and Expansion, Charleston, WV – Complete architectural and engineering Type A, B and C services for $2 million renovation of 5,395 SF SFS facility (B142) including addition of 2,500 SF administrative and training space to better serve unit. Project (MILCON/SRM split funded) increased space and improved mission performance and operational efficiency for command and administrative functions in ways that are energy efficient, code compliant and in accordance with current ANG policies. Project met LEED Silver design criteria, and all AT/FP and ADAAG requirements. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ARNG Martinsburg Secure Facility, Martinsburg, WV – Renovations to 2-story area (6,200 SF per level) to provide new secure office space and related support spaces for specific using agency. Included HVAC replacement; new interior finishes (including raised access flooring), structural roof deck and roofing system, elevator and fire stairs, building security and cameras, and site security fencing, sliding vehicular security gates, exterior parking; and site utility and storm drainage improvements. **Client Contact:** Matthew Reynolds, Deputy Branch Chief - Design & Construction, (304) 561-6568, matthew.t.reynolds18nfg@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Fuel Cell Hangar Modifications, Martinsburg, WV – Fast-track design of fuel cell hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 167th Airlift Wing C-17 Maintenance Hangar Modifications, Martinsburg, WV – Fast-track design of maintenance hangar modifications required to meet 167AW's change in mission from C-5 to C-17 aircraft. **Client Contact:** Major Emerson Slack, Deputy Base Civil Engineer, (304) 616-5233, emerson.c.slack.mil@mail.mil

West Virginia ANG 130th Airlift Wing Building 107 Study & Renovation, Charleston, WV – Scope of work included design services (LEED Silver design criteria) for two separately funded (MILCON/SRM) sub-projects to repurpose existing unoccupied hangar into space for the Aeromedical Evacuation Squadron (AES). Repairs and building repurposing included: new interior spaces within existing facility to accommodate new functions; building exterior repairs, new interior finishes; mechanical and electrical systems upgrade; fire alarm and fire protection systems repair; and site/building revisions to meet ATFP standards. New functional areas include spaces for medical simulation training, maintenance, operations, administration, storage, and other mission-related activities. **Client Contact:** Capt Harry Netzer, Deputy BCE, (304) 341-6649, harry.g.netzer.mil@mail.mil

West Virginia ANG 130th Airlift Wing Communications Facility Code / Criteria Review, Charleston, WV – 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. **Client Contact:** LtCol Rick Thomas, Base Civil Engineer

Geotechnical Engineering

Terracon has been a trusted geotechnical engineering provider for more than 56 years.

The firm will support the GRW team and the work with the WV ARNG by providing geotechnical engineering services.

The firm's approach begins by developing an opinion of expected conditions and designing a customized work plan to explore the site based on local data and a proprietary Geographic Information Systems (GIS) platform. Then Terracon executes the plan using its arsenal of conventional drilling/sampling, in-situ testing and nonintrusive, geophysical exploration tools, along with safe, current, and effective tools and procedures.

Terracon maintains required state and federal program accreditations and validations. It uses an internal quality program that confirms standards are met for safety, efficiency and quality, lowering costs to get the data needed to optimize design. The firm's geotechnical engineers analyze the information, develop site preparation options, foundations, and pavements, and consult with you and your entire design team to create faster solutions.

Terracon services are coordinated using local, regional, and national resources - and as your project moves to construction, the firm's materials professionals partner with its geotechnical engineers to further confirm subsurface understanding, perform testing necessary to document quality, and address encountered variations.

Geotechnical Services include:

- Stage 1 Site Considerations
- Site Characterization (Subsurface Exploration, In-Situ Testing, and Geophysics)
- Geotechnical Engineering and Rock Mechanics
- Laboratory Testing
- Geostructural Design and Instrumentation
- Pavement Management
- Collaborative Reporting/Decision Making
- Engineering Consultation During Construction

Federal Facility Experience

Terracon has provided services to the federal sector since 1965 and has completed over 19,000 federal projects.

LOCAL FACILITIES INCLUDE:

- National Guard Readiness Center - Lewisburg, WV
- National Guard Readiness Center - Parkersburg, WV
- National Guard Maintenance Complex Addition - Charleston, WV
- Armed Forces Reserve Center - Moorefield, WV
- Armed Forces Reserve Center Utility Extension - Elkins, WV
- Armed Forces Reserve Center - Fairmont, WV
- Camp Dawson - Kingwood, WV
- Yeager Air National Guard Fuel Storage Tank - Charleston, WV
- Logan County Airport Equipment Building - Logan, WV
- Upshur County Regional Airport Slides - Buckhannon, WV
- Braxton County Airport T-Hanger - Sutton, WV
- Grant County Airport T-Hanger Expansion - Petersburg, WV
- Upshur County Regional Airport Terminal Building - Buckhannon, WV
- Braxton County Airport Access Road - Sutton, WV
- Raleigh Airport - Main Apron - Beaver, WV

National Guard Readiness Center in Lewisburg, West Virginia

SECTION 2.0

Project Experience

2.0 Project Experience

Jeffersontown Fire Department

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY

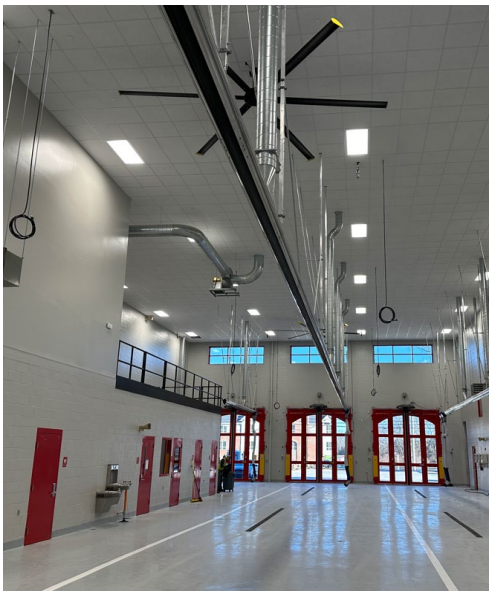
GRW provided full A/E design services – architectural, mechanical, electrical, structural, civil/site, and landscape architecture – for the new 17,500 SF Jeffersontown Fire and EMS Station #54 project. Jeffersontown, KY, is about 15 miles east of Louisville.

The facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development.

The fire house has dorms, office, decontamination areas, three pull through apparatus bays (accommodates seven vehicles), and an ICC-500 compliant tornado shelter. High speed four-fold and vertical track apparatus doors are utilized. Bay is provided with air and power drops, water reels for maintenance and cleaning, plus five bay diesel exhaust systems. Site utilities include extensive underground detention, heavy duty concrete drives, and a sanitary pump system. A building-wide 300KW/375KVA standby diesel generator was included as well.

"This fire station will improve response times in this community. It's [designed to] blend in with the surrounding community. We want it to be a community fire station. We thank GRW for coming up with this design, giving us a fire station we can be very proud of." Jeffersontown Fire Department Chief Sean Dreisbach

CLIENT CONTACT: Mark Ohlmann, Fire Chief, Jeffersontown Fire Department, (502) 267-7300, chiefohlmann@jeffersontownfire.com




CLASS 1

City of Nicholasville | Nicholasville, KY

Fire Station No. 4

For the City of Nicholasville, GRW provided facility programming, facility needs assessments, architectural and engineering design, and construction phase services for a new fire station.

Fire Station No. 4, located along East Brannon Road, includes 6,825 SF with two pull-through apparatus bays, and vehicle storage for up to six vehicles. The facility also includes a station captain's office, training room, sleeping quarters for two companies (total of 10 staff), dayroom/break area, and dedicated Personnel Protection Gear (PPE) gear and laundry spaces, as well as support spaces. Facility access is controlled by security lock systems for visitors. Utility systems include backup generator power for the entire building, communications, electrical, and mechanical/HVAC.

The facility vehicle storage apparatus bay design included multiple building alternative layouts based on vehicular access to the site, response requirements, and quantity of storage. The final design included zoned sloped concrete floors with a trench drain and oil/water separator system for four zones, and the ability to store up to six vehicles. The apparatus bays include a high pressure washing system, waterproof-rated electrical and lighting components, water resistant construction, and apparatus bay unit heaters. The

vehicle maintenance area includes four zones of dedicated vehicle exhaust and makeup air units. To support the high demand and quick response time required for public safety vehicles, the bays have high-speed, motorized overhead section doors.

Final location of the facility was determined through multiple site assessments, and design approaches considering site optimization, vehicle access, and community identity of the structure. The final site work included staff and visitor parking, concrete apparatus vehicle parking and driveways, staff assembly areas with sustainable stormwater solutions including a rain garden and vegetated filtration plantings.

CLIENT CONTACT: Craig Cox, Fire Chief, Nicholasville Fire, (859) 554-5100, craig.cox@nicholasvilleky.gov


4


NICHOLASVILLE
SINCE
DEP
1805
KENTUCKY


rain garden
where every drop counts

U.S. Army Corps of Engineers, Louisville District

Fort Campbell Firefighting and Rescue Training Facility, Fort Campbell, KY

"The Fort Campbell Fire Department, USACE, and the contractor all worked well with each other in making timely decisions to quickly resolve any issues that arose. This project was excellent. It couldn't have been completed were it not for the efforts of all persons involved." Jerry Chandler, U.S. Army COE Project Manager

To provide training in firefighting and rescue operations, the U.S Army installation at Fort Campbell, KY, constructed a Firefighting and Rescue Training Facility. The 3.45-acre site includes a multi-purpose helicopter trainer known as the A-500 Chinook Fire Trainer, a three-story control building, and a 200,000-gallon liquid propane tank.

GRW served as the contractor's lead designer for this design-build project. Engineering services included the design of a concrete pad for the helicopter; a concrete foundation for the training building; and a large staging area, including two fire hydrants and vehicle parking. GRW also has designed two small infiltration basins to assist in reducing the volume of stormwater in the area.

The pre-fabricated control building includes rappel anchors, stairs, ladders, exterior doors and windows, an access hatch to mimic a residential attic, and sprinklers. Due to the facility's multistory construction, users can fight fires in a one, two- or three-story fire scenario under various scenarios.

The Fort Campbell Firefighting and Rescue Training Facility was constructed 43 days ahead of schedule.

CLIENT CONTACT: Jerry Chandler, PE, Project Manager, USACE, Louisville District, (270) 798-9465

City of Winchester

Winchester Fire/EMS Facility Study & Planning Report, Winchester, KY

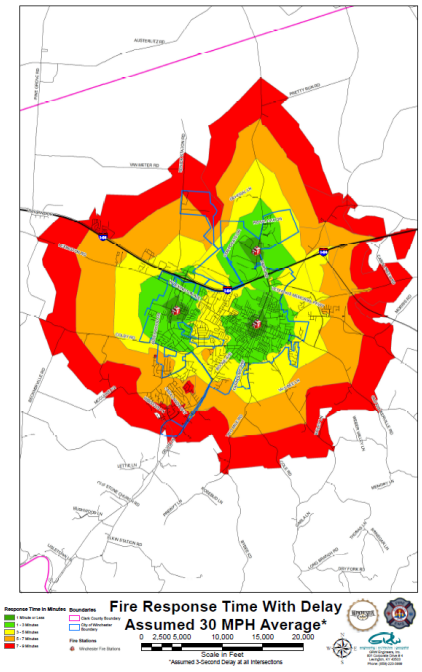
The City of Winchester hired GRW to help them determine the current and future facility needs for their community. As the city has grown, the Winchester Fire/EMS departments needed suitable facilities to provide those essential services. Expanded service areas might necessitate facility renovations, additions, or an additional Station to the department's strategic plan.

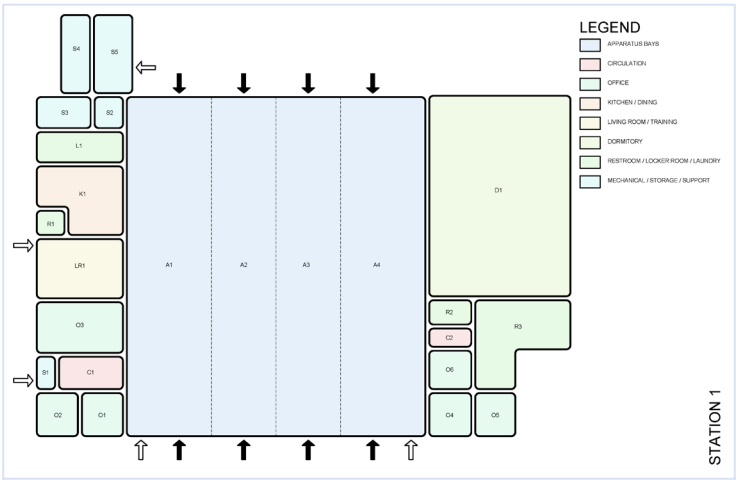
GRW conducted a study to develop a Report exploring existing facility conditions, identified recommendations, and budgetary costs to help support the department in making future decisions.

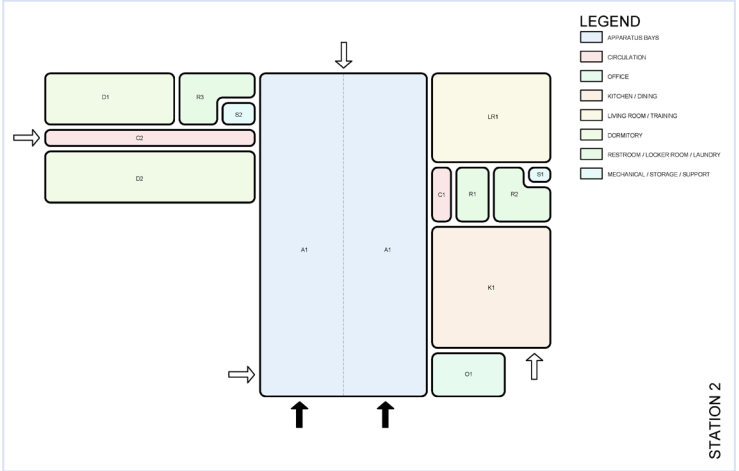
The Report included:

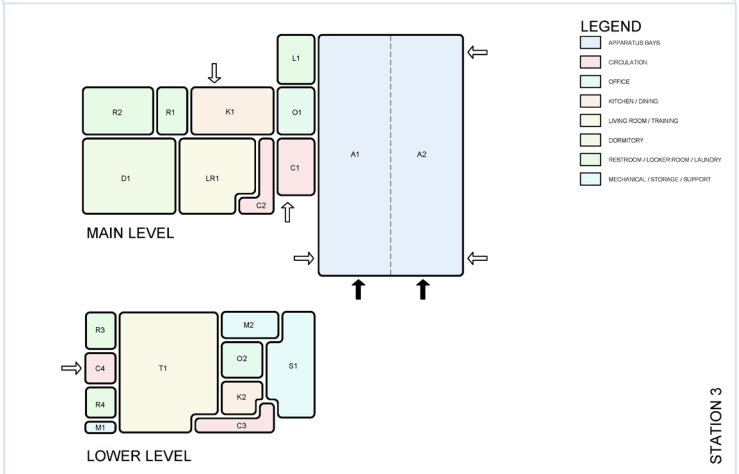
Comprehensive Summary — an assessment of every facility, identifying facilities needing upgrades and/or renovations, plus a budgetary summary for comparison and planning. *Adjacency diagrams for facilities shown.*

Area Coverage — development of a series of area coverage / response maps *(see image below)* and the parameters qualifying coverage—such as time, speed, roads, City/County—which might indicate the need for new facilities and indicate the best location(s)







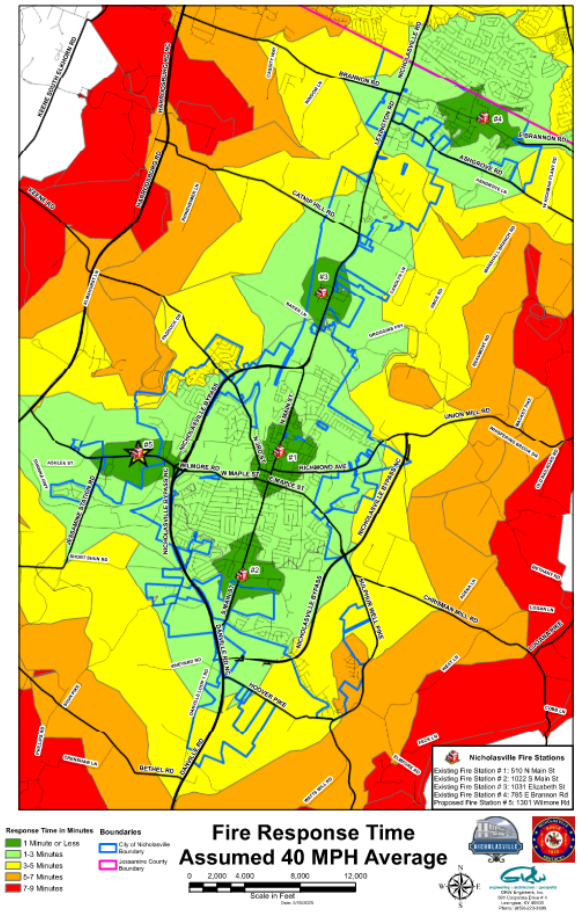


CLIENT CONTACT: Nick Riggs, Assistant Fire Chief, Winchester Fire-EMS, City of Winchester, (859) 744-1587, nriggs@winchesterky.com

City of Nicholasville

Fire Station No. 5, Nicholasville, KY

Upon completion of the city-wide Fire-Police-Government feasibility report and the design of Station #4 for the City of Nicholasville, GRW was selected to provide architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area.



GRW completed in Phase A, site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. This work included response time mapping. Currently ongoing, Phase B includes Design Development, construction document services, bidding support and construction administration for the facility.

Fire Station No. 5 is programmed to be a 10,000 SF single-story firehouse with staff services, break / flex space, dorms for up to two companies. "Hot" aisle services will include full decontamination, PPE gear storage and two pull through apparatus bays wit Bi-Fold egress openings. The facility will be provided with an ICC compliant storm shelter and full emergency power.

Full site development includes staff and visitor parking, apparatus drive lanes, landscaping design, and accommodations for future accessories structures on the site.

CLIENT CONTACT: Craig Cox, Fire Chief, City of Nicholasville, (859) 554-5100, craig.cox@nicholasville.org

Jessamine County Fiscal Court

Brannon Crossing EMS Ambulance Station, Nicholasville, KY

GRW is providing programming, design and construction administration services for a New 8,600 SF county EMS Ambulance Station in Brannon Crossing, Nicholasville. The new station is designed to meet the department's operational demands, staff wellness, response efficiency, and regulatory compliance for the rapidly growing community.

The facility program includes:

- Full Site Development including landscaping, staff and visitor parking, apparatus drives, and ingress and egress turn lanes and roadway crossings.
- Two Pull through Ambulance Apparatus Bays w/ vehicle exhaust
- One Pull-Thru Ambulance Wash / Maintenance Bay
- Laundry and Decontamination facilities
- Medical Supply Inventory and Dispensing
- Hazardous Waste Storage
- Dorm and Living Spaces
- Administrative and Office Spaces
- Visitor / Training Room
- Dorm and Living Spaces for two companies
- Break / Flex Staff areas
- ICC 500 Storm Shelter and Emergency Utilities
- Full building emergency power systems
- Site Development includes:
- Landscaping to comply with the development review board
- Staff and Visitor parking
- Apparatus drives
- Ingress and Egress turn lanes and roadway crossings to comply with the City of Nicholasville standards.

CLIENT CONTACT: Justin Ray, Deputy Judge-Executive, Jessamine County Fiscal Court, (859) 885-4500, jray@jessamineky.gov

City of McHenry | McHenry, KY

McHenry Fire Station

GRW provided full A/E services for planning, design, and construction phase services for a one-story, 3,500 SF volunteer fire station for the City of McHenry, KY. GRW assisted the City with requirements and activities for this CDBG-funded project. The final design consists of three back in apparatus bays with high speed overhead doors, open gear storage, a Decon shower room, men's and women's restrooms, and a utility space for the department.

The building systems were designed to provide tempered conditioning for summer ventilation and heating for winter conditioning. The building's apparatus bay utilized an emergency exhaust system for vehicle exhaust demand. Site development included ADA parking, and gravel access drives for future paving. Due to the project location, onsite sanitary collection was provided to serve the facility.

CLIENT CONTACT: Mayor Dennis Chinn, City of McHenry, (270)-274-4831

Jessamine County Fiscal Court | Nicholasville, KY

Emergency Services E911 Dispatch Center Renovation

GRW provided full-service A/E design and construction administration services for the interior renovation for the 2,600-SF Jessamine County E911 dispatch facility. The project Scope included renovation of the entry, lobby reconfiguration, restroom, breakroom, and E911 dispatch area. Upgrades to the dispatch workstations were central to the design, which includes design of supplemental air quality measures to support the essential staff. Building entrance and E911 access security has been upgraded to provide additional measures including ballistic doors, access control, and reworking of the security camera system.

CLIENT CONTACT: David West, Judge Executive, Jessamine County Fiscal Court, (859) 885-4500, dwest@jessamineco.com

Additional Fire Station Experience

Danville City Fire Station #2, Danville, KY – Design for a new 5,900-SF fire house with 2 truck bays, offices, day room, watch room, sleeping quarters and support spaces, constructed 7% below design estimate.

Harlan Fire Station #1, Harlan, KY – Design of new 6,700 SF facility which included four truck bays along with offices, day room, watch room, sleeping quarters, and support spaces.

Blue Grass Army Depot Satellite Fire Station, Richmond, KY – Design-build renovation of 6,700 SF warehouse into satellite fire station to minimize response time to newly expanded areas at campus. Existing metal building structurally reinforced to meet updated code requirements for critical use facility. Remodeled space provides apparatus bay, sleeping quarters, exercise and locker/showers for six, administration area, kitchen/dining room, day room, meeting/training room, equipment storage, and decontamination room. HVAC and voice/data/mass notification systems replaced. Fire protection system evaluated/upgraded and backup generator provided.

Twin Lakes Emergency Services Building, Albany, KY - Preliminary design services for new, 12,150 SF emergency services building providing 4 truck bays for firefighting, 6 truck bays for EMS, and 911 dispatch. Included storage areas, sleeping quarters, kitchen, conference and training room, and offices.

Robertson County Fire Station, Mt. Olivet, KY – New 5,368 SF, single-story, wood-framed facility with metal roof and siding, providing 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 corridor with restrooms connecting vehicle bays to 1,183 SF community room

with seating for 96 attendees, warming kitchen and janitor closet.

Whitestown Fire Station Renovation, Whitestown, IN – Fire station renovation and addition of eight-bunk dormitory sized to accommodate three shifts, each with eight personnel. Two apparatus bays and former undersized dormitory area (2,500 SF) renovated to provide men's and women's locker rooms/bathrooms, and physical fitness room. Apparatus bay addition (1,080 SF) sited to avoid moving utilities, providing a more cost effective solution to meet client's budget. Addition/renovation construction coordinated to allow staff to occupy building and remain on emergency readiness during construction.

SECTION 3.0

Staff Qualifications

3.0 Staff Qualifications

By choosing GRW, you have access to some of the most qualified and knowledgeable military and public safety design consultants in the region.

Our clients directly benefit from GRW's one-stop business model and multidiscipline staff who specialize in architecture, engineering (mechanical, electrical, structural, civil/site, water resources), landscape architecture, survey, and interior design.

Aaron Nickerson, AIA, LEED Green Assoc., will be the overall leader of the design team and directly involved with you through every stage of the project. He provides architectural leadership for GRW, driving complex building projects and solutions, and overseeing projects of all sizes, scale, and complexity.

Our team's discipline leaders – and their support team members – are equally experienced and will work closely with Aaron. Furthermore, our team's local knowledge and capacity has been strengthened by GRW's subsidiary Chapman Technical Group, a 25-person St. Albans, WV-based firm. Additionally, Terracon is proposed to provide the Geotechnical investigation services. These team members will be close at hand as we collaborate with you on this work. More information about all roles is provided in Section 4.0, Approach & Methodology.

West Virginia Department of Administration and West Virginia Army National Guard

CEOI 0603 ADJ2600000005

Fire Department Facility Design – Camp Dawson Training Center

Project Manager / Architect

- Aaron Nickerson, AIA LEED Green Assoc.

Architectural Design / Interior Design

- Nicole Kline, Assoc. AIA, EIT

Interior Design

- Rosemary Harms

Electrical Engineering

- Patrick Baisden, PE, LEED AP BD+C

Structural Engineering

- Matthew Craig, PE, SE, LEED AP

Mechanical Engineering

- Chris Boggs, PE

Civil Engineering

- Roderick Saylor, PE
- Julie Ractliff, PE

Geotechnical

- **Terracon**

Todd Griffith, PE
Charles Strope, PE
Scott Melton

Landscape Architecture

- Kelly Estep, ASLA

Surveys

- Jason Brown, PS

KEY

- St. Albans/Charleston, WV
- Lexington, KY

Aaron Nickerson, AIA, LEED Green Asc.
GRW Project Manager / Project Architect

YEARS OF EXPERIENCE:
With GRW: 20
Total: 21

EDUCATION
Bachelor of Architecture (with honors), 2006, University of Kentucky

Master of Architecture, 2007, University of Kentucky

REGISTRATION
Registered Architect: KY, TN, IN, WV, FL, NY, WA, DE, AR, DC, MD, SC, VA

National Council of Architectural Registration Boards (NCARB) Certification

LEED Green Associate

Certified Interior Designer: Kentucky

PROFESSIONAL AFFILIATIONS AND TRAINING
American Institute of Architects (AIA)

U.S. Green Building Council (USGBC)

Society of American Military Engineers (SAME)

RELEVANT PROJECT EXPERIENCE

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Project Manager. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. The fire house has dorms, offices, training, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, accessory site structures, and building-wide natural gas generator.

Lexington Fire Training Academy Campus Phase 1 Site Development, Lexington, KY – Project Manager. Architectural and engineering design and consulting services for recommendations along with site improvements and development to provide a concrete training pad, vehicular/pedestrian bridge to access rear area of campus, maximized parking for staff and public, roadways, stormwater management, sidewalks, and utility connections for future facility development on the site.

West Virginia ARNG JFHQ TAG Wing Renovation, Charleston, WV – Architect. Work for 7,200 SF facility includes renovations of office areas, complete restroom renovations, and new interior LED lighting for these areas.

Nicholasville Fire Station No. 4, Nicholasville, KY – Project Manager. Facility programming, facility needs assessments, architectural and engineering design, and construction phase services for new 6,825 SF fire station with two pull-through apparatus bays, and vehicle storage for up to six vehicles. Facility includes station captain's office, training room, sleeping quarters for two companies (total of 10 staff), dayroom/break area, and dedicated Personnel Protection Gear (PPE) gear and laundry spaces. Also includes controlled security lock systems for visitors; backup generator power for entire building, communications, electrical, and mechanical/HVAC; zoned sloped concrete floors with trench drain and oil/water separator system; high pressure washing system in apparatus bays; four zones of dedicated vehicle exhaust and makeup air units in vehicle maintenance area; high-speed, motorized overhead section doors; staff and visitor parking; concrete apparatus vehicle parking and driveways; staff assembly areas with sustainable stormwater including rain garden and vegetated filtration plantings.

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 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.

Winchester Fire & EMS District-Wide Facility Study, Winchester, KY – Project Manager. GRW provided a Facility Study for the City of Winchester Fire / EMS department. The Study included existing City Stations to determine building deficiencies to meet the department's future growth needs. The team provided response study mapping to inform current coverage area gaps.

Nicholasville Fire Station No. 5, Nicholasville, KY – Project Manager. Programming study, architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area. The project has been completed in two phases, including complete site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. Followed by design development, construction document services, bidding support and construction administration. The proposed facility (in design) includes 10,000 SF of Administration, Staff Services, Dorms, Training, Apparatus Bays and additional site structures.

McHenry Fire Station, McHenry, KY – Project Manager. Planning, design, and construction phase services for one-story, 3,500 SF fire station that has three truck bays with high-speed overhead doors, as well as gear storage, lockers, shower room, restrooms, and multi-purpose room and exterior site improvements.

Jessamine County EMS Ambulance Station, Nicholasville, KY – Project Manager. Programming, design and construction administration for a new 8,600 SF County EMS Ambulance Station. Facility design includes: 3 pull-thru apparatus bays; dorms, laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; administrative and office spaces.

Jessamine County Emergency Services E911 Dispatch Center Renovation, Nicholasville, KY – Project Manager. Design and construction administration interior renovation including entry/lobby reconfiguration, restroom, breakroom, and E911 dispatch area. Included are upgrades to physical security and dispatch workstations, as well as design of supplemental air quality measures.

Jessamine County Emergency Services Center Exterior Renovation, Nicholasville, KY – Project Manager. Design and construction administration for exterior renovations. Included were new roofing, mechanical screens, lighting, doors, and masonry restoration and site upgrades.

City of Nicholasville - City Hall / Fire / Police Assessment and Planning, Nicholasville, KY – Project Manager. Program study for a new city hall building, as well as needs assessments for renovation of existing fire/police building on North Main Street, renovation of existing Nicholasville City Hall for police use, new satellite fire station, and future needs. Recommended solutions included site selection, budgetary cost estimates, and order of importance and implementation.

Nicole Kline, EIT, Assoc. AIA
GRW Architectural Design

YEARS OF EXPERIENCE:
With GRW: 3
Total: 3

EDUCATION
B.S., Civil Engineering, 2020, University of Kentucky

Master of Architecture, 2024, University of Kentucky

REGISTRATION
Associate Member, American Institute of Architects

RELEVANT PROJECT EXPERIENCE

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Architectural Designer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Nicholasville Fire Station No. 5, Nicholasville, KY – Architectural Designer. Architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area. The work will be complete in two phases, including complete site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. Followed by design development, construction document services, bidding support and construction administration. The proposed facility shall include Administration, Staff Services, Dorms, and Apparatus Bays.

Jessamine County Brannon Crossing EMS Ambulance Station, Nicholasville, KY – Architectural Designer. Design and construction administration for a new County EMS Ambulance Station. Facility includes: 2-3 pull-thru apparatus bays; laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; adminstrative and office spaces.

Jessamine County Emergency Services E911 Dispatch Center Exterior Renovation, Nicholasville, KY – Architectural Designer. Design and construction administration for the exterior renovations. Includes entry/lobby reconfiguration, restroom, breakroom, and E911 dispatch area. Included are new roofing, mechanical screens, lighting, doors, and masonry restoration.

Knott County Judicial Center Roof Assessment and Renovation, Hindman, KY – Architectural Designer. Assessment of roof to identify failed and underperforming components and to generate prioritized list of recommended repairs/replacement that will improve reliability and performance. GRW designed a replacement for the low slope roof system and a resurfacing of the standing seam metal roof.

Lincoln County Fiscal Court Judicial Center Envelope/HVAC Renovation, Stanford, KY – Structural Designer, Architectural Designer. Full building envelope renovation includes a roof parapet coping replacement, masonry restoration, first level masonry window sill replacement, and replacement of the exterior sealant joints. The HVAC renovation replaces the aging units and adds additional systems to address humidity issues and increase occupant comfort levels.

YEARS OF EXPERIENCE:
With GRW: 2
Total: 5

EDUCATION
M.A., Interior Design, 2023, University of Kentucky

B.S., Architecture, 2021, Bowling Green State University, OH

Rosemary Harms
GRW Interior Designer

RELEVANT PROJECT EXPERIENCE

Winchester Fire & EMS District-Wide Facility Study, Winchester, KY – Interior Designer. GRW will be providing a Facility Study for the City of Winchester Fire / EMS department. The Study shall include City Stations to determine deficiencies to meet the departments needs. GRW will be providing a response study to inform current coverage areas and needs. Consultants will include Palmer Engineering. The Initial Scope of Work shall be a Facility Study.

Kenton County Fiscal Court Independence Courthouse Phase 4 Renovation, Independence, KY – Interior Designer. Work includes designing new layout for public restrooms, as well as replacing lighting and ventilation.

East Kentucky Power Cooperative Spurlock EOP Operations Employee Facility, Maysville, KY – Interior Designer. Addition to the existing Spurlock Power Station to house an office, break room / kitchenette, locker room, and restroom space.

Lexington Division of Water Quality Headquarters & Operations Center Renovation/Refit, Lexington, KY – Interior Designer. Design services for the renovation of an existing building for the Lexington-Fayette Urban County Government (LFUCG) Division of Water Quality Headquarters and Operations Facility. The proposed site consists of approximately 67,000 square feet on approximately 8.4 acres. An overall design identifying the building as part of LFUCG while staying sensitive to the neighborhood and context of the surrounding structures was imperative.

Kentucky Department of Juvenile Justice Jefferson County Youth Detention Center Renovation, Louisville, KY – Interior Designer. Renovation of facility to house functions for high security youth population that is intended to provide adequate space for functions of 64-bed high-security youth detention facility, including secure housing facilities, medical services, educational spaces, recreational spaces, kitchen and dining spaces, and other necessary functions of a secure youth detention facility. Approximately 50,000 square feet of facility is affected by project scope involving basement and first two floors.

CVG Centre Office Renovation, Erlanger, KY – Interior Designer. Design services for the office renovation project at CVG Centre includes design and construction of ten (10) hard wall offices, coordination with existing systems in place, and prioritizing natural light in the remaining office spaces. The project later grew to include a renovation and design of the first floor for CVG's Airport Board meeting room.

Administrative Office of the Courts Statewide Kentucky Courthouse Facility Assessments, Various Locations, KY – Interior Designer. Scope for each of 37 sites included on-site inspection and assessment to identify building interior and exterior deficiencies, space limitation issues, security concerns, and ADA compliance issues. Reports included findings, potential solutions, and cost estimates.

Patrick Baisden, PE, LEED AP BD+C, RCDD
GRW Electrical Engineer

YEARS OF EXPERIENCE:
With GRW: 17
Total: 29

EDUCATION
B.S., Electrical Engineering, 1997, University of Kentucky

REGISTRATION
Professional Engineer, Electrical: KY, IN, WV, OR, NM, SC, TN, VA, NY

NCEES Member allows reciprocity with other states

LEED Accredited Professional, Building Design + Construction

Registered Communications Distribution Designer

RELEVANT PROJECT EXPERIENCE

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Electrical Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Lexington Fire Training Academy Campus Phase 1 Site Development, Lexington, KY – Electrical Engineer. Architectural and engineering design and consulting services for recommendations along with site improvements and development to provide a paved training pad, vehicular/pedestrian bridge to access rear area of campus, maximized parking for staff and public, roadways, stormwater management, sidewalks, and utility connections for future facility development in the rear area.

McHenry Fire Station, McHenry, KY – Electrical Engineer. Planning, design, and construction phase services for one-story, 3,500 SF fire station that has three truck bays with high speed overhead doors, as well as gear storage, lockers, shower room, restrooms, and multi-purpose room and exterior site improvements.

Nicholasville Fire Station No. 4, Nicholasville, KY – Electrical Engineer. Facility programming, facility needs assessments, architectural and engineering design, and construction phase services for new 6,825 SF fire station with two pull-through apparatus bays, and vehicle storage for up to six vehicles. Facility includes station captain's office, training room, sleeping quarters for two companies (total of 10 staff), dayroom/break area, and dedicated Personnel Protection Gear (PPE) gear and laundry spaces. Also includes controlled security lock systems for visitors; backup generator power for entire building, communications, electrical, and mechanical/HVAC; zoned sloped concrete floors with trench drain and oil/water separator system; high pressure washing system in apparatus bays; four zones of dedicated vehicle exhaust and makeup air units in vehicle maintenance area; high-speed, motorized overhead section doors; staff and visitor parking; concrete apparatus vehicle parking and driveways; staff assembly areas with sustainable stormwater including rain garden and vegetated filtration plantings.

Nicholasville Fire Station No. 5, Nicholasville, KY – Electrical Engineer. Architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area. The work will be complete in two phases, including complete site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. Followed by design development, construction document services, bidding support and construction administration. The proposed facility shall include Administration, Staff Services, Dorms, and Apparatus Bays.

Whitestown Fire Station Renovation, Whitestown, IN – Electrical Engineer. Fire station renovation and addition of eight-bunk dormitory sized to accommodate three shifts, each with eight personnel. Two apparatus bays and former undersized dormitory area (2,500 SF) renovated to provide men's and women's locker rooms/bathrooms, and physical fitness room. Apparatus bay addition (1,080 SF) sited to avoid moving utilities, providing more cost effective solution to meet client's budget. Addition/renovation construction coordinated to allow staff to occupy building and remain on emergency readiness during construction.

Winchester Fire & EMS District-Wide Facility Study, Winchester, KY – Electrical Engineer. GRW will be providing a Facility Study for the City of Winchester Fire / EMS department. The Study shall include City Stations to determine deficiencies to meet the departments needs. GRW will be providing a response study to inform current coverage areas and needs. Consultants will include Palmer Engineering. The Initial Scope of Work shall be a Facility Study.

Jessamine County Brannon Crossing EMS Ambulance Station, Nicholasville, KY – Electrical Engineer. Design and construction administration for a new County EMS Ambulance Station. Facility includes: 2-3 pull-thru apparatus bays; laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; adminstrative and office spaces.

Jessamine County Emergency Services E911 Dispatch Center Renovation, Nicholasville, KY – Electrical Engineer. Design and construction administration interior renovation including entry/lobby reconfiguration, restroom, breakroom, and E911 dispatch area. Included are upgrades to physical security and dispatch workstations, as well as design of supplemental air quality measures.

Jessamine County Emergency Services E911 Dispatch Center Exterior Renovation, Nicholasville, KY – Electrical Engineer. Design and construction administration for the exterior renovations. Includes entry/lobby reconfiguration, restroom, breakroom, and E911 dispatch area. Included are new roofing, mechanical screens, lighting, doors, and masonry restoration.

Chris Boggs, PE
GRW Mechanical Engineer

YEARS OF EXPERIENCE:
With GRW: 3
Total: 18

EDUCATION
B.S., Mechanical Engineering, 2006, University of Louisville

M.Eng., Mechanical Engineering, 2007, University of Louisville

REGISTRATION
Professional Engineer: KY, IN, OH, WV, TN

NCEES Member, allows reciprocity with other states

PROFESSIONAL AFFILIATIONS AND TRAINING
American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

KSPE/ACEC-KY/KP-SAME Leadership PE, Class of 2024-25

RELEVANT PROJECT EXPERIENCE

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Mechanical Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Nicholasville Fire Station No. 5, Nicholasville, KY – Mechanical Engineer. Architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area. The work will be complete in two phases, including complete site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. Followed by design development, construction document services, bidding support and construction administration. The proposed facility shall include Administration, Staff Services, Dorms, and Apparatus Bays.

Winchester Fire & EMS District-Wide Facility Study, Winchester, KY – Mechanical Engineer. GRW will be providing a Facility Study for the City of Winchester Fire / EMS department. The Study shall include City Stations to determine deficiencies to meet the departments needs. GRW will be providing a response study to inform current coverage areas and needs. Consultants will include Palmer Engineering.

Jessamine County Brannon Crossing EMS Ambulance Station, Nicholasville, KY – Mechanical Engineer. Design and construction administration for a new County EMS Ambulance Station. Facility includes: 2-3 pull-thru apparatus bays; laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; adminstrative and office spaces.

Kenton County School District Support Operations Center, Fort Wright, KY – Mechanical Engineer. New approximately 80,578 SF transportation and support facility to support staff and operations for these critical district functions: transportation, maintenance, technology, and support operations. Spaces anticipated range from offices and conference rooms to a garage with eight drive-through bays, a food service area, a network operations center (NOC), and specialized spaces (image room, bug rooms).

Kentucky Department of Juvenile Justice Jefferson County Youth Detention Center Renovation, Louisville, KY – Mechanical Engineer. Renovation of facility to house functions for high security youth population that is intended to provide adequate space for functions of 64-bed high-security youth detention facility, including secure housing facilities, medical services, educational spaces, recreational spaces, kitchen and dining spaces, and other necessary functions of a secure youth detention facility. Approximately 50,000 square feet of facility is affected by project scope involving basement and first two floors.

Matthew Craig, PE, SE, LEED AP
GRW Structural Engineer

YEARS OF EXPERIENCE:
With GRW: 18
Total: 36

EDUCATION
B.S., Mechanical Engineering, 1990, The Ohio State University

M.S., Engineering (Focus on Structural), 1994, Purdue University

REGISTRATION
Professional Engineer:

AL, FL, GA, IN, KY, MD, MI, MO, MS, NC, NE, OH, PA, SC, TN, TX, VA, WI, WV, NM

Licensed Structural Engineer: IL

LEED Accredited Professional

PROFESSIONAL AFFILIATIONS AND TRAINING
Structural Engineers Association of Kentucky (SEAoK), Past President

RELEVANT PROJECT EXPERIENCE

Nicholasville Fire Station No. 5, Nicholasville, KY – Structural Engineer. Architectural and engineering design, and construction phase services for a new fire station to fill a gap in the fire department's current coverage area. The work will be complete in two phases, including complete site investigations and programming to assist the city in developing a plan for the best site layout, response times, space needs, and feasibility. Followed by design development, construction document services, bidding support and construction administration. The proposed facility shall include Administration, Staff Services, Dorms, and Apparatus Bays.

Winchester Fire & EMS District-Wide Facility Study, Winchester, KY – Structural Engineer. GRW will be providing a Facility Study for the City of Winchester Fire / EMS department. The Study shall include City Stations to determine deficiencies to meet the departments needs. GRW will be providing a response study to inform current coverage areas and needs. Consultants will include Palmer Engineering. The Initial Scope of Work shall be a Facility Study.

Jessamine County Brannon Crossing EMS Ambulance Station, Nicholasville, KY – Structural Engineer. Design and construction administration for a new County EMS Ambulance Station. Facility includes: 2-3 pull-thru apparatus bays; laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; adminstrative and office spaces.

Fort Campbell Firefighting and Rescue Training Facility, Fort Campbell, KY – Structural Engineer. Engineering design and construction administration services for design-build of U.S. Army firefighting and rescue training facility at Fort Campbell, KY. Included helicopter concrete pad for aircraft fire training; concrete foundation for multistory training building; large staging/parking area; and two small infiltration basins.

Northpoint Training Center Structural Evaluation and Recommendations for Repairs to Existing Buildings, Burgin, KY – Project Manager. Structural evaluations and repair recommendations for several existing buildings on training center campus. Examples of recommended repairs include installing brackets and push piles to bedrock to resolve vocational building foundation settlement and adding end wall bracing to limit movement and repoint masonry to fix cracks in water treatment building.

Frankfort Plant Board Headend Telecommunications Facility, Frankfort, KY – Structural Engineer. New 6,725 SF telecommunications "headend" facility containing owners cable, internet and telephone communications systems servicing city. Designed to accommodate forces from natural disasters, facility is hardened structure, including reinforced walls and roof assemblies. Mechanical and electrical system redundancy included backup generator, UPS and DC plant to maintain facilities operations.

Roderick Saylor, PE
GRW Civil / Site Engineer

YEARS OF EXPERIENCE:
With GRW: 21
Total: 21

EDUCATION
B.S., Civil Engineering, 2006, University of Kentucky

REGISTRATION
Professional Engineer: KY, FL, IN, OH, KS, MD, NY, NE, TN, NM, AZ, TX

PROFESSIONAL AFFILIATIONS AND TRAINING
KYTC Complete Streets, Roads, and Highways Manual Training (10/27/23)

RELEVANT PROJECT EXPERIENCE

Jeffersontown Fire & EMS Station #54, Jeffersontown, KY – Civil Engineer. Complete A/E design services for new 17,500 SF city Fire and EMS station. Facility consists of two-story fire house, accessory 3-bay garage building, storage building, and full site development. Fire house has dorms, office, decontamination areas as well as a 3-bay pull through apparatus bay (storage of 7 vehicles), ICC-500 compliant tornado shelter, and building - wide natural gas generator.

Kentucky Fire Commission/Kentucky ARNG Master Plan for Fire Center for Excellence, Greenville, KY – Civil Engineer. Preparation of Master Plan for proposed Fire Center for Excellence on 25-acre site at National Responder Preparedness Center located on WHFRTC campus. Plan and cost estimates incorporated variety of emergency training scenarios such as aircraft, helicopter, rail, automobile, and building rescue, as well as road network, driving course, and storage facilities.

Lexington Fire Training Academy Campus Phase 1 Site Development, Lexington, KY – Civil Engineer. Architectural and engineering design and consulting services for recommendations along with site improvements and development to provide a paved training pad, vehicular/pedestrian bridge to access rear area of campus, maximized parking for staff and public, roadways, stormwater management, sidewalks, and utility connections for future facility development in the rear area.

Nicholasville Municipal Utilities Building Addition & Renovation, Nicholasville, KY – Civil Engineer. Addition of 1,200 SF, along with renovation of 5,600 SF building including office area space expansion, exterior envelope renovations, roof replacement, site upgrades and improvements, a full mechanical renovation, and electrical upgrades and repairs.

Fort Campbell Firefighting and Rescue Training Facility, Fort Campbell, KY – Project Manager. Engineering design and construction administration services for design-build of U.S. Army firefighting and rescue training facility at Fort Campbell, KY. Included helicopter concrete pad for aircraft fire training; concrete foundation for multistory training building; large staging/parking area; and two small infiltration basins.

National Responder Preparedness Center Site Expansion, Greenville, KY – Project Manager. Project included paving, drainage, and fencing improvements at existing first responder training area, as well as new access road and driving course for expansion. Also provided building, site, stormwater and signage permitting.

U.S. Federal Courthouse Renovation, Lexington, KY – Civil Engineer. Design-build improvements project to enhance security through renovation of existing space, as well as new construction. Improvements include upgraded security electronics, site blast protection, and circulation/control enhancements. Built in 1934, the federal courthouse is listed on National Register of Historic Places.

Julie Ratcliff, PE
GRW Civil / Site Engineer

YEARS OF EXPERIENCE:
With GRW: 9
Total: 12

EDUCATION
B.S., Civil and Environmental Engineering, 2014, University of Pittsburgh

REGISTRATION
Professional Engineer: KY

PROFESSIONAL AFFILIATIONS AND TRAINING
KYTC Complete Streets, Roads, and Highways Manual Training (10/27/23)

RELEVANT PROJECT EXPERIENCE

Jessamine County Brannon Crossing EMS Ambulance Station, Nicholasville, KY – Civil Engineer. Design and construction administration for a new County EMS Ambulance Station. Facility includes: 2-3 pull-thru apparatus bays; laundry/decontamination facilities; medical inventory, storage and waste area; storm shelter and emergency utilities; living spaces; administrative and office spaces.

Ravenna Stormwater Improvements, Ravenna, KY – Project Manager. Preliminary engineering report and identification of solutions to persistent flooding problems related to runoff from the hillside north of town, as well as design for two (west and east) storm sewer networks involving over 5,000 linear feet of pipe and 74 new storm structures with enough capacity for a 25-year rainfall. Evaluation of 62-acre watershed was included, as well as services to obtain easements and grant funding assistance.

Bourbon County Joint Planning Office Stormwater Review of Development Plans, Paris, KY – Civil Engineer. Assisted with stormwater review of development plans to ensure compliance with local regulations. Engineering services included reviewing proposed stormwater plan and associated calculations (hydraulic/hydrologic modeling) along with attending Technical Review Meetings to review plan with applicant and discuss any revisions needed to be made prior to going before Planning Commission.

Sanitation District No. 1 Maple and Lytle Stormwater Improvements, Newport, KY – Civil Engineer. Design and construction phase services for improvements to the current undersized storm sewer and drainage system at the intersection of Maple and Lytle Drives in the City of Elsmere. The drainage area is approximately 77 acres and stormwater quickly exceeds the capacity of the existing storm system.

Louisville Water Company Cardinal Hill Drainage Evaluation, Louisville, KY – Project Engineer. Drainage evaluation of slope below Cardinal Hill Road to identify alternatives for collection of surface runoff. Also included design and construction phase services for selected alternative

Versailles High Street Sidewalk, Versailles, KY – Project Manager. New 0.89 miles of sidewalk along High Street from Minary Road to Falling Springs Boulevard. Roadway originally constructed as rural highway with limited shoulders and indistinct roadside drainage. Sidewalk options evaluated included 4-foot, 5-foot, 6-foot with integral curb.

McDonald's Site Development – Project Engineer. Site investigation reports, development plans and construction documents for more than 100 McDonald's restaurants in Kentucky, Indiana, and Ohio. Biofiltration or underground detention utilized for dozens of sites. All remodeled restaurants include survey and correction for ADA barriers to be compliant. Also provided building, site, stormwater and signage permitting.

Kelly Estep, ASLA
Project Manager

Years of Experience: 32
Years with Chapman: 8

Education
West Virginia University
BS Landscape Architecture,1993

Registration
Landscape Architecture:
WV

Experience
Kelly's design experience includes master planning, site design, stormwater management, and landscape design. She has been involved in park projects, sidewalk and streetscape projects, roadway replacement projects, ADA curb ramps, bio-retention and rain gardens.

Sidewalk & Streetscape Experience
West Virginia State Capitol Complex Hardscape Renovations
Nitro 2nd Avenue Streetscape
St. Albans Sidewalk Phase VI Project
Lewisburg South Lafayette Sidewalk Project
Lewisburg 219 South Sidewalk Project
Petersburg Curb Ramp Replacement Project
Salem Curb Ramp Replacement Project
Hurricane Mainstreet Streetscape Project
Eleanor Sidewalk Extension Project
Gallaher Village Streetscape Master Plan

Trail Experience
Meadow River Trail FEMA and TAP Projects
Clear Fork Trail Phase 1
Canaan Valley Trail Improvements

Other Projects
WVDNR Division of Parks and Recreation Toilet & Bathhouse Renovations
WV Department of Arts, Culture and History North & South ADA Access Renovation
City of Ashland, KY Pollard Mills Drainage Improvement Project – Phase 1-3
Old Central City Gazebo Project
RD Management – Traffic Signal Study
WV Capitol Hardscape Barrier Replacement

Construction Experience
For 13 years Kelly worked in commercial construction as a Project Manager. She managed design-build and design-bid-build projects for private entities and State agencies. Significant projects included WV Department of Environmental Projection Headquarters building, two University of Charleston resident housing projects, and a multi-agency office building for the WV Department of Health & Human Resources. Working with clients, designers, and subcontractors, Kelly coordinated design-build projects from conception to completion. She managed project design development, monitored budgets, issued contracts, developed and maintained the project schedule. She worked with project superintendents.

Jason Brown, P.S.

Professional Surveyor

Years of Experience: 30
Years with Chapman: 22

Education
A.S., Land Surveying, 2002
Glenville State College, WV

Registration
Professional Surveyor: WV, KY, VA, PA

Experience

Jason leads the Chapman Technical Group survey team and is experienced in topographical and boundary surveys, as well as flood plain mapping, ALTA surveys, and construction layout. Jason also coordinates aerial mapping and LiDAR services with GRW, the parent company of Chapman Technical Group. Jason has completed projects for a variety of industries including airport layout and obstruction projects.

Highways
Established control, site surveying, topographic surveying, courthouse research, drawing production, Right-of-Way Questionnaires, bore hole stakeout, and all surveying associated with the initial and final design of WV highways.

Site Development
Experienced in all types of surveying associated with site development, to include control, topographic boundaries, research, and drawing production. Projects include military complexes, public housing, commercial development, industrial and institutional complexes, churches, resorts and public facilities throughout the state.

Schools
Associated surveying for new schools, additions, athletic fields, and sidewalks projects.

Parks and Recreation
Associated surveying for projects including swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems.

Water/Wastewater/Stormwater Systems
Associated surveying for the design of water systems, sanitary sewer systems, and stormwater systems, including treatment facilities for both private and public systems throughout the state. Also, field experience in the inventory and collection of attribute data using GPS equipment for uploading to GIS databases.

Todd Griffith, P.E.

Senior Associate, Department Manager, Geotechnical Services

PROFESSIONAL EXPERIENCE

Mr. Griffith currently serves as the Geotechnical Department Manager in Terracon's Charleston, West Virginia office. He is responsible for operational oversight of field and engineering activities in the Geotechnical (GEO) Department, mentoring staff, and management and analysis of geotechnical projects. He has over 17 years of geotechnical engineering experience working with public agencies such as WVDOH and USACE, working on projects involving site and subsurface investigations, design and construction of new or modified bridge foundations, cut slope analysis and design, fill slope analysis and design, the elevation and design of earth retainage structures (i.e., earthen dams, MSE walls, reinforced soil slopes), laboratory testing, and stream bank erosion mitigation.

He is proficient in the use of commercial software such as Sleep/W and Slope/W, SLIDE, Settle 3, ReSSA 3.0, MSEW+, gINT Version 8, and DigiPro 2. He has worked on numerous projects and variety of clients in different areas including transportation, landslide remediation, landfill, power generation and transmission, oil and gas transmission, retail/commercial developments, local and state infrastructure, and retaining walls in multiple states.

PROJECT EXPERIENCE

Tri-State Airport Landslide Remediation - Huntington, WV

Mr. Griffith provided engineering expertise and project management for remediation of a large landslide near the western edge of the safety area of the main runway of the airport. The slope failure was approximately 140 feet in height and 300 feet wide. The project included subsurface investigation and laboratory testing to aid in the design of the remediated slope as well as to aid in determination of the probable causes of the slope failure. It was determined that a combination of improper drainage at the toe of the slope, unauthorized earthwork at the crest of the slope, and removal of trees and vegetation from the face of the slope contributed to causing the landslide. Based on slope stability analyses performed by Mr. Griffith, the remediated design included removal of all failed material and excavation into the underlying bedrock and the slope design consisted of placement of a rock drainage layer and separation fabric, moisture conditioning of the excavated material and replacement as structural fill to a 2. 5H:1V slope. During construction, Mr. Griffith oversaw the excavation and placement of fill material to the designed specifications.

Tri-State Airport Taxiway A Stability - Huntington, WV

Mr. Griffith directed work and developed monitoring plans for potential slope movement on Taxiway A of the Huntington Tri-State Airport. Several years after the taxiway was extended and re-routed, large cracks indicating possible adjacent slope movement were observed. Inclinometers were installed and monitored for 7 months to aid in determination of ground movement at the top of the slope. Prepared a geotechnical engineering report providing information on the subsurface condition of the fill slope as well as the inclinometer data.

US Route 35 Public Private Partnership - Putnam & Mason Counties, WV*

Served as the project manager and lead geotechnical engineer for the design-build team for the final section of US Route 35 for the West Virginia Department

EDUCATION

M.S., Civil Engineering, Geotechnical Specialization, Virginia Tech, 2005
B.S., Civil Engineering, West Virginia University, 2004

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer
West Virginia #18217
Pennsylvania #79360
Kentucky #27791
Maryland #40119
Ohio #78282
Virginia #64858

American Red Cross for Adult First Aid CPR AED
OSHA 30-Hour Construction

AFFILIATIONS

Member of American Society of Civil Engineers (ASCE)
Member of American Council of Engineering Companies of WV (ACEC-WV) Geotechnical Committee

WORK HISTORY

Terracon Consultants, Inc. Geotechnical Department Manager, Charleston, West Virginia, 2021-Present
Project Engineer: 2010-2013
Staff Engineer: 2006-2009

Triad Engineering, Geotechnical Department Manager, St. Albans, West Virginia, 2019-2021

TRC Engineers, Office Practice Lead – Geotechnical Engineering, Charleston, West Virginia, 2013-2019

(Continued on next page)

Charles T. Strope, P.E.

Senior Engineer, Geotechnical Services

PROFESSIONAL EXPERIENCE

Mr. Strope currently serves as a Senior Engineer in the Geotechnical Department of Terracon's Charleston, West Virginia office. He is responsible for providing technical direction for production and completion of complex projects. He has over 12 years of experience working with civil engineers, mining engineers and field personnel on a variety of projects in the civil, mining, and oil & gas fields. He has worked on teams of bridge engineers, roadway engineers and fellow geotechnical engineers on large roadway projects.

He is proficient in the use of commercial software such as AutoCAD with SurvCADD, AutoCAD Civil3D, SLIDE 7.0, Settle3D, and gINT version 8.

PROJECT EXPERIENCE

Coal Prep Plant Expansion – Marshall County, WV
Served as project manager to develop and oversee a subsurface exploration plan for the development of an expansion to a coal preparation plant. Coordinated and provided recommendations to designers for shallow foundations, driven pile and drilled caisson foundations.

Hazardous Slope Analysis – Various Locations throughout WV, OH, PA, KY, VA and TN
Served as project manager and engineer to develop hazardous slope work plans for the oil & gas industry. Engineering analysis included slope stability, as well as determining if the client's proposed cable / winch system could safely operate within manufacturer specifications for the given hazardous slope.

Wellsburg Bridge Public Private Partnership - Brooke County, WV
Served as a geotechnical engineer on a design-build team for the Wellsburg Bridge project for the West Virginia Department of Highways. Responsibilities included overseeing drilling crews in the field and performing boring inspection, performing pier foundation design and designing an MSE wall.

US Route 35 Public Private Partnership - Putnam & Mason Counties, WV
Served as a geotechnical engineer for the design-build team for the final section of US Route 35 for the West Virginia Department of Highways. Design work included road cut/fill design, bridge pier design. Also performed geotechnical construction inspection during different aspects of the project.

Jefferson Road Improvements – Kanawha County, WV
Served as a geotechnical engineer overseeing a subsurface investigation on the Jefferson Road Widening and Improvement Project for the West Virginia Department of Highways.

EDUCATION

B.S., Civil Engineering, Mining Engineering, West Virginia University, 2009
M.B.A., West Virginia University, 2010

REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, West Virginia #21381
Professional Engineer, Pennsylvania #091591
Professional Engineer, Kentucky #35927
Professional Engineer, Maryland #57004
Professional Engineer, Ohio #81067
Professional Engineer, Illinois #062072624

WORK HISTORY

Terracon Consultants, Inc. Geotechnical Engineer, Charleston, WV 2023-Present

New River Engineering, Project Manager/Principal Engineer, Charleston, WV 2018-2023

TRC Engineers, Inc., Geotechnical Engineer, Charleston, WV 2015-2018

West Virginia Department of Highways – District 1, Highway Engineer Associate, Charleston, WV 2014-2015

Scott Melton

Project Manager, Materials Services

PROFESSIONAL EXPERIENCE

Mr. Melton serves as Project Manager for the Construction Materials Engineering and Testing group located in our Charleston, West Virginia office. Mr. Melton is a retired Master Sergeant from the US Air Force with over 22 years as an Engineering Assistant. He has over 25 years of CMET related experience including serving as Superintendent of the US Air Force, Airfield Pavements Evaluation Section, during which his team performed structural evaluations and pavement condition surveys on airfields around the world. Mr. Melton performed over 50 structural evaluations using the Dynatest Heavy Weight Deflectometer and the Corp of Engineers PCASE program including an emergency evaluation of the runway at Tule AB, Greenland, following a major flood.

PROJECT EXPERIENCE

Year	Client	Project Name
2021	Kimley-Horn and Associates, Inc.	HTS Improve Airport Drainage- Phase 1
2019	West Virginia Paving	Yeager Airport Asphalt Compaction and Coring – Charleston, WV
2019	Triton Construction	Eagle Mountain Road - Yeager AP – Charleston, WV
2019	West Virginia Paving	Raleigh County AP Asphalt Field Testing – Beaver, WV
2018	Chapman Technical Group	Upshur County Regional Airport - Construct Terminal Building
2018	Triton Construction	Yeager Airport Improvements – Charleston, WV
2018	Orders Construction Company	Yeager Improve Runway Safety Area 5-23 – Charleston, WV
2017	Kimley-Horn and Associates, Inc.	Tristate AP Taxiway Alpha East – Huntington, WV
2017	West Virginia Paving	Jackson County Airport – Asphalt Testing – Millwood, WV
2017	Chapman Technical Group	Logan County Airport – Logan, WV
2017	Chapman Technical Group	Appalachian Regional AP Taxiway Construction – Varney, WV
2016	Michael Baker International	Mid-Ohio Valley Airport – Williamstown, WV
2016	Chapman Technical Group	Mason County Airport Apron Rehab – Point Pleasant, WV
2013	Chapman Technical Group	Eastern West Virginia Regional Airport – Martinsburg, WV

EDUCATION

AS Construction Technology, 1999, Community College of the Air Force
USACOE – Pavements Computer Assisted Structural Engineering (PCASE)
USACOE – Micro Paver, Pavements Management and Inspection
Air Force Institute of Technology – Airfield Pavement Maintenance and Rehabilitation
Air Force Institute of Technology – Airfield Pavement Construction Inspection
Air Force Institute of Technology – Roof Design and Management
Air Force Institute of Technology – Computer Aided Design and Drafting Systems Course
Air Force Construction Materials Testing Course
Air Force Engineering Assistance Specialist Course
Air Force Construction Surveying Course

REGISTRATIONS/ CERTIFICATIONS

Nuclear Radiation Safety Certification
OSHA 30-Hour Occupational Safety and Health Supervisor
American Concrete Institute Concrete Field Testing Technician – Grade I
WVDOH Certified PCC Inspector
WVDOH Certified Compaction Inspector

WORK HISTORY

Terracon Consultants, Inc., 2008-Present
Jarret Construction Services, Construction Project Manager, 2006-2008
Integrated Construction Services, Project Manager, 2003-2006
United States Air Force Master Sergeant; Retired: Engineering Technician, 1985-2003

SECTION 4.0

Approach & Methodology for Meeting Goals & Objectives

4.0 Approach & Methodology for Meeting Goals & Objectives

The West Virginia Department of Administration along with the West Virginia Army National Guard (WVARNG) are embarking on an important project – the new Fire Department Facility at the Camp Dawson Training Center.

We understand your primary goals and objectives for this project include:

- 35% design and cost estimates to secure additional funding (Phase 1)
- Complete multi-code-compliant design – architecture and engineering –to prepare construction bid documents for West Virginia State Purchasing. This would be provided, if funding is available (Phase 2), and include bidding assistance and construction administration services for successful completion.
- Geotechnical engineering and utility location services are important steps included with the overall project.

FIRE DEPARTMENT FACILITIES

GRW understands Public Safety, our most focused client base is built upon relationships with Fire Department services, Emergency Management and Medical Facilities, 911 Call Centers, Jails and Corrections clients. Our extensive experience will help support and guide the project as it moves forward. We expect the following aspects to become primary to the success of your new facility:

- **"Hot" and "Cold" Aisle** analysis:
  - Transition between Contaminated areas and clean staff areas.
- **DECON** Areas:
  - Showers, Saunas, Exercise
- **Apparatus** Needs:
  - Bays, Wash, Storage, Cleaning
- **Staff Accommodations**:
  - Varying Experience for full-time staff
  - Dormitory

Supporting these concepts we expect the following program areas and systems:

- Apparatus Bays – Quantity and Size
- Wash Bay - Demands
- PPE Gear – Lockers, Rinse
- DECON Washing Facility – Extracting, Drying
- Dorm Accommodations – Quantity, Flex, Egress
- Shelter – Storm Type
- Staff Offices and Management – Reports, AC, BC
- Conference / Dispatch Area – Daily Call, Radio
- Break / Flex Space – Dinning, Recreation
- Exercise Area - Wellness
- Training Area - Flexibility
- Site Development – Drives, Storage, Flex
- HVAC System Analysis – Flexibility and Control
- Electrical System Redundancy – Generators, Battery
- Fire Suppression Analysis – Facility and Apparatus

An Approach Based on Respect & Clarity

Our approach to accomplishing these goals and objectives for your project is straightforward:

1) Assemble the best and brightest design talent with **knowledge of Public Safety – Fire Department Requirements,** mixing with national guard/military projects experience;
2) Bring an **open mind** and **fresh perspectives to your goals and needs**;
3) **Remain accountable** to you throughout the process for cost control/budget.

The relationship between you and your chosen design consultant is critically important. The cornerstone of the GRW design approach is collaboration, which we believe is key to this relationship. Communicating in an open dialog, where ideas can be freely expressed and considered, helps to vest everyone in the project's success, and is a vital prerequisite to ensuring buy-in from all project stakeholders.

A Project Team You Can Count On

Leading you and our team as our project manager will be GRW's Senior Vice President in charge of Architecture, **Aaron Nickerson**. A **Morgantown, WV, native** with 21 years of experience, he'll provide overall supervision for the design team and be directly involved with you through every stage of the project.

Aaron regularly manages teams' delivery **Public Safety** projects consisting of minor renovations, volunteer facilities, to multi company professional fire and EMS stations. We believe you will find Aaron a knowledgeable architect and a valuable partner. Aaron's logical and methodical approach will provide a steady hand guiding the team and the WVARNG through the design process to a successful conclusion. He'll work to balance vision with a realistic and practical assessment of cost and schedule.

Nicole Kline will assist Aaron with architectural services, bolstered by **Rosemary Harms** who brings a balance of WVARNG familiarity and the latest interior design skills.

To ensure efficiency, effectiveness, and code compliance of mechanical systems our team includes **Chris Boggs, PE**. Our electrical engineer **Patrick Baisden, PE** will apply his experience with power, lighting, and communications systems. Both will ensure code compliance and well-coordinated system upgrades.

Our in-house structural engineer is **Matthew Craig**, with **Roderick Saylor** and **Julie Ratcliff** addressing any site/civil and utilities for your project. Local survey needs will be addressed by **Jason Brown** with landscape architecture services provided by **Kelly Estep**. Our inclusive GRW team will also include **Terracon** to provide geotechnical engineering services and likely Special Inspections deemed required. Their team includes experience with the WV guard as well as a history with fire department facilities. All team members have the experience you need and are accustomed to working on complex, systems-oriented, code-oriented projects.

Project Goals & Objectives

GRW brings a thorough understanding of the goals and requirements outlined in the Fire Department Facility Design RFQ for Camp Dawson Training Center. Our team is committed to delivering a facility that meets National Guard and DoD Design Guidelines, on time, within budget, and built to serve the WVARNG mission for decades to come. The following outlines our tailored approach to scope, design, and construction administration.

Kickoff Meeting & Site Orientation

GRW will move quickly upon receipt of Notice to Proceed, scheduling a kickoff meeting and site visit with the WVARNG Project Manager. This collaborative session, whether structured as a formal design charrette or a focused working meeting, ensures we capture your priorities from day one. We will listen carefully to what is working at your current facilities, identify pain points, and gather the operational insights needed to establish a solid design foundation.

Site Survey & Utilities

GRW will move quickly upon receipt of Notice to Proceed, scheduling a kickoff meeting and site visit with the WVARNG Project Manager. This collaborative session, whether structured as a formal design charrette or a focused working meeting, ensures we capture your priorities from day one. We will listen carefully to what is working at your current facilities, identify pain points, and gather the operational insights needed to establish a solid design foundation.

Geotechnical Investigation

Our trusted geotechnical partner, Terracon, will conduct targeted subsurface explorations coordinated with survey data and early site planning. Findings will inform foundation design, POV parking pavement, and heavy-duty paving requirements. GRW and Chapman have an established working relationship with Terracon across multiple project types, ensuring seamless coordination. Geotechnical recommendations will be fully integrated into the 35% design submittal and cost estimate.

35% Schematic Design

Building on kickoff insights and existing conditions analysis, GRW will develop a schematic design package for your review. This submittal will include drawings, product information, design imagery, written discipline narratives, and an initial budgetary cost estimate. We will present this package in a collaborative review meeting and carefully document all comments and desired revisions. Construction phasing opportunities will also be explored at this stage to support operational continuity during construction.

65%, 95%, & 100% Design Development

GRW will advance the design through progressive review milestones at 65%, 95%, and 100% completion. Each submittal is issued for WVARNG review and approval before proceeding to the next phase. The cost estimate is updated at each milestone to ensure the project remains within budget. Final construction documents will be fully bid-ready, including drawings, specifications, and complete instructions to bidders.

Bid Services & Construction Administration

The same Project Manager who leads design will remain your single point of contact through bidding and construction, and the original designers will handle shop drawing reviews, site observations, and contractor coordination. This continuity is intentional and central to our quality assurance process.

GRW manages all construction administration activities through Newforma® Project Center, providing real-time transparency to the Owner, design team, and contractor on submittals, RFIs, progress payments, and open items. Our team conducts regular site visits, reviews progress payments, and performs a semi-final inspection before the technical inspection. Record drawings reflecting all field changes are delivered at project closeout.

Project Management Approach

GRW's project management model is built on centralized procedures, clear accountability, and consistent communication, ensuring every task is executed with precision regardless of scope or complexity. Our approach includes:

- Clearly defined roles, responsibilities, and lines of authority within the project team
- Established communication protocols that keep all stakeholders aligned throughout the project lifecycle
- Project-wide procedures for consistent execution across all task areas
- Rigorous cost and schedule control with proactive issue identification
- A Total Quality Management program embedded at every phase of design and construction
- Staffing plans tailored to the technical and management demands of the project

SECTION 5.0

Quality/Cost Control

5.0 Quality/Cost Control

At GRW, cost control, scheduling and value engineering are daily components of our design process. Project planning decisions are assessed in weekly project meetings with all A/E disciplines to confirm budgets and schedules will be met. During these sessions, project status is discussed to direct adequate resources to meet the project schedule. The issues tracking list we create is reviewed to ensure problems are resolved before they impact the schedule or budget. Our vision as your full-service architectural and engineering design firm is to partner with you to simplify the design and construction process for the results you intend.

Quality Control

PROJECT MANAGER: Our process begins initially with the assignment of an experienced Project Manager who is responsible for organizing the design effort and who manages the Quality Control process. **Aaron Nickerson, Project Manager**, will have primary responsibility for the daily management and coordination of the project team. With over 21 years of experience, he has a clear understanding of the most effective methods for maintaining the programming, planning, and design schedule. While a project design team may involve many different departments or groups, the Project Manager has ultimate authority over the project at all times.

COMMUNICATION: At GRW, our highest project-management priority is focused on maintaining clear and effective communication throughout the entire project. This focus includes our communication with you and your stakeholders, with the Contractor, and with our internal design team members. Key to this effort is our use of Newforma project information management software, which allows the storage, sharing, and retrieval of project information.

A key element in effective Quality Assurance/Quality Control (QA/QC) is the use of regularly scheduled progress meetings. A kickoff meeting between key members of GRW's proposed project team and your management and staff will be held to ensure a common understanding of the goals and objectives among all project partners. These issues will be reviewed, and the work plan will be discussed in detail. Regular meetings will then be scheduled throughout the project to report on project progress and to review technical issues. These meetings provide a forum for discussing concerns and ideas. The assigned Project Manager is the primary conduit for communication between you and the design team.

TEAM MANAGEMENT: QA/QC is enhanced at GRW by providing our design disciplines in-house. Because of this, scheduling internal team meetings or over-the-shoulder reviews is greatly simplified. On this project, the Project Manager will conduct weekly team meetings with the design team members to facilitate coordination of design issues. Any design problems are identified along with a path for their correct resolution. A checklist managed by the Project Manager is used to track the resolution of issues from meeting-to-meeting.

SCHEDULE MANAGEMENT: No QA/QC process can succeed without allocating sufficient time for internal review. The Project Manager will develop a proposed internal design schedule at the beginning of the project for appropriate time for internal review. These internal reviews typically occur prior to normal design submittal dates for the project.

QUALITY CONTROL REVIEWS: QC reviews at GRW includes desk-to-desk, task-to-task, and person-to-person crosschecking of work that takes place on a regular basis within the company. Impromptu meetings to discuss specific issues take place as often as needed. The peer review personnel are determined by the Project Manager at the beginning of the project and remain consistent throughout the course of the project.

PROGRAMMATIC OVERSIGHT: The Project Manager is tasked with maintaining oversight of the project as the design develops, to ensure that the design decisions are in keeping with the programmatic criteria developed with you at the project's initiation. At each interim submittal, the Project Manager takes a step back and looks at the project in broad terms to ensure that the design is progressing in accordance with the original criteria.

Cost Control

PROJECT BUDGET ACCOUNTABILITY: Government officials are accountable to the public for the expenditure of public monies. The GRW team understands this obligation and develops a project design that is cost-effective and delivers an efficient and appropriate use of funds assigned to the military. Rarely do projects have sufficient budget to accommodate everything on the programmatic *wish list*. Reconciling the program against the project budget is done early and often in order to guide the project to a successful conclusion.

GRW approaches this process in a pragmatic and open manner. This subject will be on the agenda of every project meeting we have with you for open and frank discussion so that everyone is kept abreast of any potential concerns. Prioritizing the program relative to the budget can be a difficult task, with different stakeholders sometimes at odds over how to resolve differences of opinion. GRW excels at guiding this process and helping you to resolve these differences.

GRW has a strong history of successfully estimating projects, and our design experts will draw upon this knowledge during the development of our construction cost estimates.

We can also develop a list of possible value-engineering for consideration to help manage construction costs and give you the most construction value for your dollar.

Ohio National Guard Reserve Center and Field Maintenance Shop Complex

Owner's Budget: $23,351,000
Architect's Estimate: $22,507,690
Total Contract Award: $13,938,000

Scheduled Months for Construction Activities: 24 months
Actual Months for Construction Activities: 26 months

Jeffersontown, KY, Fire & EMS Station #54

Owner's Budget: $8,000,000
Architect's Estimate: $7,947,286
Final Contract Total: $7,740,985
Awarded Bid: $7,350,000 (*DPO Tax Savings included)

Scheduled Months for Construction Activities: 16 months
Actual Months for Construction Activities: 21 Months
(Construction Delivery was delayed by 3 months for jurisdictional reviews and delays)

Northpoint Training Center Replacement, Burgin, KY

Owner's Budget: $16,500,000
Architect's Estimate $16,443,319
Total Contract Award: $16,176,507

Scheduled Months for Construction Activities *18 months
Actual Months for Construction Activities 18 months

* This was a fast-track project. It was bid in six bid packages allowing contractor to break ground and complete site utilities, foundations, building envelopes before winter weather.

Indiana National Guard Combat Team Readiness Center

Owner's Budget: $14,000,000
Architect's Estimate: $14,000,000
Total Contract Award: $14,146,000

Scheduled Months for Construction Activities 13 months
Actual Months for Construction Activities 15 months
(contractor issues outside control of architect)

SECTION 6.0
References

6.0 References

GRW understands that professional consulting begins as a relationship built on trust. We fully understand the importance of gaining your respect, proving our worth, and being there long after your successful project is completed. With repeat clients providing more than 90 percent of GRW's current workload, we believe this is a testament to our business philosophy of providing close, personal, high-quality service. We invite you to contact our references to verify GRW's performance.

City of Nicholasville
Fire Station No. 4 and No.5
Craig Cox, Fire Chief
(859) 554-5100
craig.cox@nicholasville.org
Nicholasville, KY

Jessamine County
Brannon Crossing EMS Ambulance Station
Emergency Services E911 Dispatch Center Renovation
David West, Judge Executive, Jessamine County Fiscal Court, (859) 885-4500,
dwest@jessamineco.com

Jeffersontown Fire Department
Jeffersontown Fire & EMS Station #54
Mark Ohlmann, Fire Chief
(502) 267-7300
chiefohlmann@jeffersontownfire.com
Jeffersontown, KY

City of Winchester
Winchester Fire & EMS District-Wide Facility Study
Chris Whiteley, Fire Chief
(859) 744-1587
cwhiteley@winchesterky.com
Winchester, KY

SECTION 7.0

West Virginia EOI Forms

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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1916937			**Reason for Modification:**
Doc Description: Fire Department Facility Design- Camp Dawson Training Center			
Proc Type: Central Purchase Order			
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2026-03-02	2026-03-17 13:30	CEOI 0603 ADJ2600000005	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000218570

Vendor Name : GRW Engineers, Inc.

Address : 801 Corporate Drive

Street :

City : Lexington

State : Kentucky **Country :** United States **Zip :** 40503

Principal Contact : Aaron Nickerson, AIA,LEED Green Asc.

Vendor Contact Phone: (859) 880-2267 **Extension:**

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X  **FEIN#** 61-0665036 **DATE** 3/17/2026

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
EOI Fire Department Facility Design - Camp Dawson Training Center The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office, is soliciting Expressions of Interest from qualified firms to provide professional design services to develop construction documents to provide for the construction of a new Fire Department Facility on the Camp Dawson garrison, at Camp Dawson, near Kingwood WV, per the attached documentation.

INVOICE TO	SHIP TO
ADJUTANT GENERALS OFFICE 1707 COONSKIN DR CHARLESTON WV 25311 US	CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD KINGWOOD WV 26537-1077 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Fire Department Facility Design-Camp Dawson Training Center		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description:
Provide professional architectural and engineering design services per the attached documentation.

SCHEDULE OF EVENTS

Line	Event	Event Date

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) _____

(Address) _____

(Phone Number) / (Fax Number) _____

(email address) _____

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

_____

(Company)

_____

(Signature of Authorized Representative)

_____

(Printed Name and Title of Authorized Representative) (Date)

_____

(Phone Number) (Fax Number)

_____

(Email Address)

Aaron Nickerson, AIA, LEED Green Associate
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anickerson@grwinc.com