



BONSACK FIRE STATION

Solicited PPEA Proposal for Construction - Conceptual Phase

RFP# 2023-020

Volume I

September 15, 2022 | 2:00 PM

G & H Contracting
INCORPORATED
Salem, Virginia

September 15, 2022

ATTN: Heath Honaker, County Purchasing Director
Purchasing Division
Roanoke County Administration Building
5204 Bernard Drive, Suite 300 F
Roanoke, VA 24018

Re: Solicited PPEA Proposals for Construction of Bonsack Fire Station
RFP# 2023-020

Dear Heath,

Thank you for your time in considering G&H Contracting, Inc. for your new fire station. We submit this proposal which is exemplary of our team's experience, skills, and unique fire station and public safety experience.

Our design team leader is one we have worked with on the County's last two fire stations, Hughes Associates A&E. Together, we have assembled a design team consisting of Day & Kinder Consulting Engineers, PLLC (structural engineering), Stewart Cooper Newell Architects (fire station design consultant), and Ascent Engineering (mechanical/electrical/plumbing/fire protection engineering).

This PPEA team brings together a group that affords Roanoke County the opportunity that the PPEA method of delivery was created for. This team will provide the most functional, efficient, affordable facility delivered earlier than your typical procurement process. And **as the general contractor that has built 5 of the last 6 new fire stations in the Roanoke Valley** (7 of last 10 if you include NRV) over the last 15 years, it's pretty good odds we'd have been the lowest bidder anyway.

This proposal will show that each member of our team's qualifications and experience cannot be matched when it comes to life safety facilities. Each discipline is unparalleled at their knowledge and technical expertise. This PPEA process will allow our team to collaborate in the preconstruction phase, providing the highest value cradle to grave to supply Roanoke County with the right systems, equipment, and services.

Financially, G&H Contracting is incredibly stable and has remained so throughout these interesting times. Our budgets and timelines have remained stable as well. G&H Contracting's long-term commitment to responsibility and integrity has made us work extremely hard and has taught us how to adjust and pivot at new speeds. We are also cognizant of what projects we know are the right fit. Using that formula, we are completing successful projects meeting our obligations across the board and we are better for it.

The Bonsack Fire Station is that next successful project.

Sincerely,



Troy Henderson, Vice President G&H Contracting
THenderson@ghcontracting.com



Roanoke City Fire Station #7

During construction G&H Contracting helped incorporate aspects from the previous 90-year-old station. In the foyer entrance of the building, concrete squares from the demolished station were placed in the brick wall to pay homage.

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3.1

QUALIFICATION & EXPERIENCE

3.1. Qualification & Experience

3.1.1. Legal & Organizational Structure



3.1. Qualification & Experience

3.1.2. Team Experience & Management Structure

G&H Contracting has assembled a veteran Fire Station and EMS facilities team for the Bonsack Fire Station. G&H has worked with **Hughes Associates A&E** on a wide range of projects, including Design-Build. Together, we have fine-tuned our working relationship regarding all forms of communication, quality assurance, efficiency, and overcoming challenges.

Stewart Cooper Newell Architects is one of the top fire station/public safety consultants in the country and are a sought-after resource for the latest trends and knowledge. Currently working with Hughes Associates A&E on a new fire station in Waynesboro, their team has been cohesively working together since 2007.

Day & Kinder Consulting Engineers and **Ascent Engineering Group** have become go-to consultants in their disciplines by many municipalities and have a wealth of fire station/public safety experience dating back to their establishments.



G&H CONTRACTING

began in 1989 as a family-run construction company and has remained a family-owned and operated business for 33 years. Today, the leadership and vision of the first and second generation of G&H family members has built the company from placing concrete slabs for other general contractors to completing construction projects in excess of \$30 million. We offer our clients a broad range of services including construction management, design-build contracting, and building construction. Since our establishment, G&H Contracting has been guided by three core principles

Commitment: To a quality, cost-effective project delivered in a timely manner.

Character: Providing a client experience that fosters trust. Providing a community experience that fosters trust.

Communication: Effective and clear communication to assure our client's needs are heard and expectations are met.

VA DPOR# 2705023767



Our Services

Preconstruction Services	General Contracting	Self-Perform Trades
Project Budget Scheduling Analysis Constructability Analysis Value Engineering Site Evaluation & Layout	Project Management Job Cost Accounting Permitting Submittal Review & Distribution Progress Meetings Scheduling Reviews Site Supervision/Coordination Quality Control Project Closeout	Concrete Structural & Misc. Steel Erection Drywall/Framing Rough & Finish Carpentry Doors & Hardware Installation Acoustic Ceiling Specialties & Accessories



HUGHES ASSOCIATES ARCHITECTS & ENGINEERS

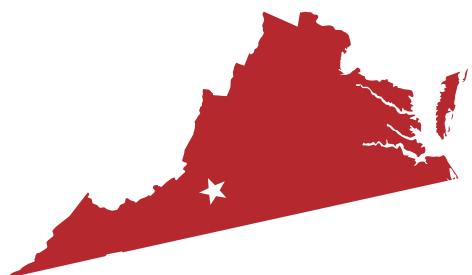
has a legacy that stretches back to 1985 and is a collaborative community of professionals dedicated to positively impacting the way communities live, learn, work, and play. Through the years, we have grown and expanded our services with the addition of an in-house civil engineering department, a trained acoustician, interior design, and the addition of a number of experienced senior architects.

Today, Hughes Associates A&E is a recognized leader in the region for our innovative approach to the planning and design of State and Local Facilities, K-12, Higher Education, Healthcare, Public Safety, Multifamily, Senior Living, Industrial/Manufacturing, Worship Centers, Commercial & Retail, and Single Family Housing.

Our success has been built upon our mission and philosophy **“to Listen to our client’s ideas and goals; Relate to the context of place, culture, and identity; and Create innovative designs.”**



ROANOKE, VA



Our Services

Architecture	Engineering	Interior Design	Consulting
Master Planning Programming & Schematic Design Facility Assessments/Evaluations Historical Preservation Roof Evaluations Sustainable Design/LEED Construction Administration	Civil Engineering Rezoning Site Analysis Site Selection Site Planning Stormwater Management Sustainable Site Design	Interior Architecture & Design Services Strategic Programming & Planning Improve Corporate Brand Identity, Efficiency, & Productivity Articulate Conceptual Business Strategies in Spatial Arrangement Create People-Centric Environments through Spatial Order, Furniture, Lighting, & Display Art	ADA Compliance Reviews Code Reviews Change of Use Bank Loan Draw Evaluations Building Code Compliance Reviews Tax Credit Applications

Size of Firm

Our staff of 17 allows our proposed team to remain constant from start to finish; this provides continuity and accountability for keeping this project on schedule and within your proposed budget.

W. Michael Woolwine | President & Civil Designer

Mark J. Ayles, P.E., M. ASCE | Vice President & Civil Engineer

Alan Downie, AIA, LEED AP | Vice President & Architect

Licensed Architects 8

Designers 3

Civil Engineers 1

Revit/AutoCAD Technicians 3

Administration & Marketing 3



VA DPOR# 0405000489





OFFICE LOCATION

719 E. Second Avenue
Gastonia, NC 28054
P: (704) 865-6311
F: (704) 865-0046
E: info@scn-architects.com

COMPANY PROFILE

VA DPOR# 0407006764

NC Entity: S Corporation

Established: 1971

Staff: 19 Employees

- 7 Registered Architects
- 3 Project Managers
- 1 Construction Administrator
- 2 Production Support
- 1 Architect Intern
- 4 Administrative Staff

WEBSITE

www.fire-station.com

Public Safety designs in 27 States:



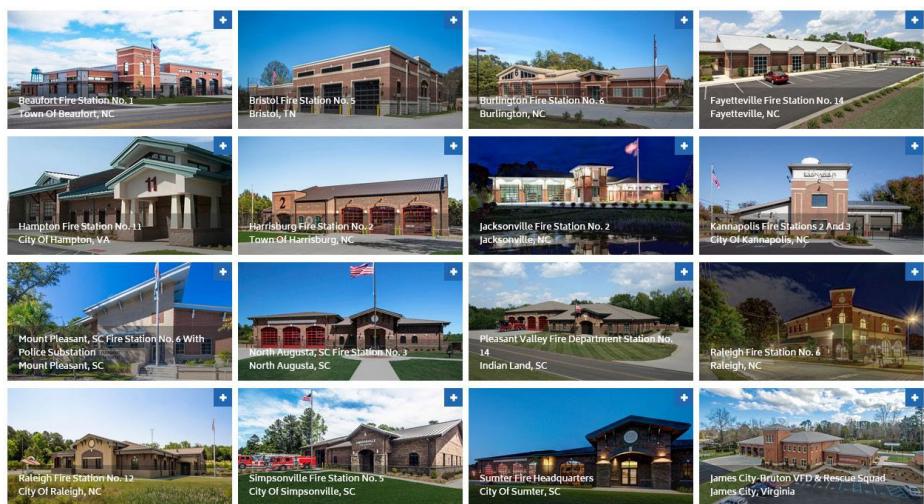
STEWART COOPER NEWELL ARCHITECTS, P.A.

has been providing its clients with quality architectural design services since 1971. As a firm, our goal is to provide excellence in planning, design and construction administration while keeping in mind our client's budget and schedule. Since the founding of the firm, we have enjoyed steady growth in all of our studios and have had the opportunity to work on many different project types across numerous industries.

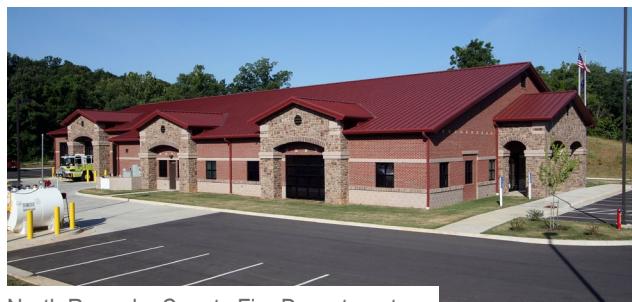
Today, our multi-disciplined staff specializes in several areas, most notably Government and Public Safety Facilities, including Fire/EMS Stations, Training Centers, Government Complexes, Law Enforcement Facilities, Detention Centers, 911/EOC Communication Facilities and Court Facilities. Beyond architectural design, we offer our clients services in Master Planning, Space Needs Studies, Long Range Planning, Feasibility Studies, Interior Design and Renovation.

Stewart-Cooper-Newell Architects understands the science of designing Public Safety Training Centers and other Government facilities. In the past 50 years, we have consulted on the design of over **400 Fire Stations, Law Enforcement Facilities, Training Centers and 911/EOC Projects in 27 states**. Our specialized expertise has helped many cities and counties better the morale of their emergency medical personnel, firefighters and law enforcement officers; decrease insurance rates, and provide better protection for their citizens.

Our firm is led by three Partners with distinct, overlapping specialties. James C. Stewart (Chairman and Secretary), a Clemson University alumnus, is the founding Principal and has successfully overseen hundreds of Government and Law Enforcement projects throughout the southeastern U.S. in his five decades as a practicing architect. Kenneth C. Newell (President), a graduate of NC State University and UNC Charlotte, has been with the firm for 28 years. Considered a leading expert on the design of modern Fire Stations, Ken has consulted on over 275 Public Safety Facility projects, nationwide. James R. Stumbo (Vice President) a graduate from the University of Tennessee, has been with the firm for 17 years and plays a critical role in the firm's design and planning efforts for Public Safety Training Centers and Law Enforcement projects. Jim also serves as the firm's Information Technology expert, overseeing all of the office's technology resources and systems. Together, their shared dedication to offering local and regional clients excellence in design regardless of project size, type or budget remains the firm's bedrock, driving motivation.



Fire Station Design Project List



North Roanoke County Fire Department



Danville VA Fire Department Headquarters & 911



Vinton, VA Fire and Rescue



Hampton Fire Station 11



Virginia Beach, VA First Landing Fire and Rescue

Since **Stewart Cooper Newell's** establishment in 1971, we have consulted on the design over 400 Public Safety Facility Projects, including over **100 Fire Station Projects in the past eight years alone**. For that reason, the following list is not exhaustive. Additional examples will be provided upon request.

Roanoke County, VA - North Roanoke Fire Station
Virginia Beach, VA - First Landing Substation
Chesterfield, VA Fire Station
Vinton, VA Fire & Rescue Station (Renovation & Addition)
Waukesha, WI Fire Stations (2)
Grand Island, NE Fire Station
Raymond, NE Fire Station
White House, TN Fire Station
Evergreen, MT Fire Station
Denton, TX Fire Department Headquarters
Murray, KY Public Safety Facility
St. Charles, MO Fire Station & E-911 Facility
Manhattan, KS Fire Stations (2)
Gordon County, GA Fire Substation
Berwyn, PA Fire Department (Needs Assessment)
Rock Hill, SC Fire Stations (5)
Greenville, SC North Main Fire Substation
York, SC Fire Station
Hilton Head Island, SC Fire Substations (5)
Weaverville, NC Fire Station
Cherryville, NC Fire Department Headquarters
Asheville, NC Fire Stations (2)
North Port, FL Fire Substations (3)
Waxhaw, NC Fire Station
Morehead City, NC Fire Station
Washington, NC Fire & Rescue Station
Lincoln County, NC EMS Headquarters
Fayetteville, NC Fire Station No. 14
Fayetteville, NC Fire Station No. 15
Fayetteville, NC Fire Station No. 19
Wake County, NC - Garner Fire/EMS Station
Wake County, NC - Durrant Road EMS Station
Kitty Hawk, NC Fire Station
Apex, NC Fire Station
Thomasville, NC Fire Station
Orange County, NC EMS Study 7 Design
Lewisville, NC Fire Station
Candler, NC - Upper Hominy Fire Station
Winston-Salem, NC Fire Station No. 19
Winston-Salem, NC Fire Station No. 20
Charlotte Douglas International Airport ARFF Station (LEED Silver)
Carrboro, NC Fire Station No. 2 (Designed to meet LEED standards)



Jay F. Kinder, Jr., P.E.

Partner | Structural Engineer

P.O. BOX 20187
3959 ELECTRIC ROAD, SUITE 348
ROANOKE, VIRGINIA 24018
PHONE: 540 774-5706
FAX: 540 772-3266

VA DPOR# 0413000005

DAY & KINDER CONSULTING ENGINEERS, PLLC

was first established in 1994 as Day-Williams Consulting Engineers by Eric W. Day when Mr. Day merged with the firm of Richard L. Williams Consulting Engineers. Mr. Day was joined by James F. Kinder, Jr. in 1997 and the firm operates today as Day & Kinder Consulting Engineers, PLLC. In keeping with the demands of the area, the Firm provides a comprehensive range of structural engineering services to clients in both the public and private sectors throughout Virginia and neighboring states.

Services

The Firm's primary discipline is the field of Structural Engineering. A list of the engineering services that the Firm provides includes feasibility studies, structural investigations, estimates of probable cost, preliminary planning, engineering design, preparation of contract documents, and review of construction. Completed projects include the design of new facilities and renovations of and additions to previously constructed buildings, with construction budgets ranging to 25 million dollars.

Philosophy

Day & Kinder Consulting Engineers takes pride in their abilities to meet the needs of their clients, and especially in the ability to meet budget and scheduling requirements. It is the policy of the Firm to provide first-class service at a reasonable cost, with client satisfaction being a major goal. As a result of this philosophy, the Firm has served many of its clients on a repeat basis for over twenty-five years.

Technology

The Firm utilizes computer design and drafting in the completion of its projects and the Principals of the Firm have been instrumental in the development of standardizing techniques for computer applications. AutoCad format is used to produce construction drawings for all projects.





Offices in Roanoke and Richmond, VA

DPOR# 0405000475

26 Employees
17 Engineers and Designers
7 Licensed Professional Engineers
7 LEED Accredited Professionals
1 RCDD
1 CEM (Certified Energy Manager)
SWaM# 9348S (Certified Small)

Capabilities and Skills:

Assessment Studies
Audio/Video Systems
Building Automation Systems (BAS/EMS)
Building Project Design
Building Renovations
Closed Circuit Television
Construction Management
Controls
Economic Evaluations
Electrical Engineering
Electrical Power
Energy Management/Conservation
Equipment Replacement Design
Exterior Lighting Design
Feasibility Studies
Fire/Security/Alarm Systems
Fire Protection Engineering
Heating, Ventilating & Air Conditioning
Indoor Air Quality
Interior Lighting Design
Intra-Building Communications Systems
Lighting Consultation
Low Voltage Systems
Mechanical Engineering
Media Retrieval Systems
Photovoltaic Systems
Plan Review
Plumbing Engineering
Pre-Planning Studies
Refrigeration
Site Power Distribution
Site Lighting
Sports Field Lighting
Thermal Storage
Utilities
WAN/LAN Systems

Ascent Engineering Group, Inc.

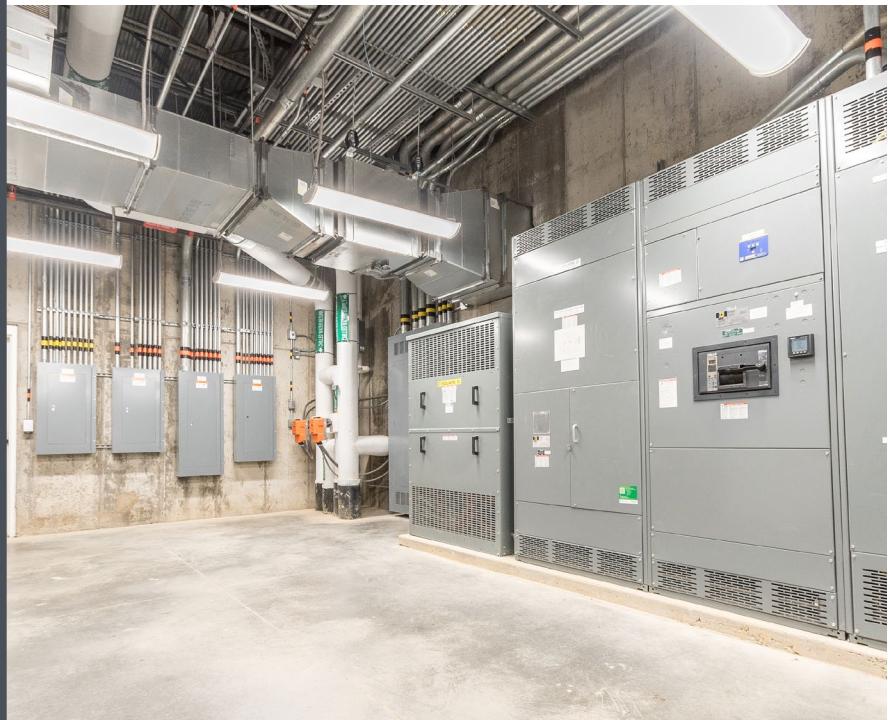
was established in 1959 specializing in engineering and design of **Mechanical, Electrical, Plumbing, Fire Protection and Information Technology Systems for Public Safety facilities of all types**. We are also specialized in the design of local government facilities, health care facilities, commercial buildings, animal care facilities and retirement facilities. Ascent provides planning, design and consulting engineering services to Owners, architects and other engineers. Professional Engineering service constitutes the entire activity for the firm, which produces plans, specifications, studies, reports, energy analysis and construction administration services.

HOW WE DO IT

We believe in conducting business with honesty, integrity, and excellence. Our goal is not to do what is best for us, but rather what is best for the Owner. Ascent has no financial interest in the construction industry, or the manufacturing or sale of equipment. For new construction or renovation projects, we provide all of the engineering necessary for the cost-effective design, installation and operation of the mechanical and electrical systems. Ascent is an equal opportunity employer.

COMMITMENT TO CONSULTING

Ascent committed to our high performance design approach, but also in the consulting engineering profession as a whole. This dedication to the business is a direct reflection of the Principals' commitment to the engineering profession and its creed of service to the public.



Safety

Safety is top priority at G&H Contracting and is accounted for in all phases of our projects. We have a comprehensive safety program managed and overseen by our Safety Manager and retired RCPS Principal, Danny Guard and implemented by our OSHA certified project superintendents. Safety also occupies the minds of our preconstruction and project management teams, then communicated to our subcontractors. For every project, we want to be conscious of any potential safety concerns, such as means of entrance, egress, and job site circulation. G&H has a great safety track record, with an EMR of .91.

G&H Safety is a Focus Four approach to mitigate the four most common claims, which are falls, strains, struck by, and vehicle collisions. We also have a strategy for Return to Work program (RTW) and our five year loss ratio is below industry standards, despite a higher capacity of risk for self-performance.

Past Technical Performance on Recent Projects

G&H Contracting has built **11 life safety facilities** throughout Southwest Virginia, delivering them on schedule, within budget, and exceeding our clients' expectations. Our familiarity with fire and EMS stations, mixed with open communication with the Owner and design teams, have resulted in a well-informed project team delivering well-planned projects.

Please see our team's statements of great legal standing with **Claims, Litigation, and Debarment/Suspension** on the following pages.



September 7, 2022

Dear Mr. Honaker,

There has been no litigation, criminal investigation, or conviction, governmental or regulatory action pending, nor threatened, against G & H Contracting affecting our ability to provide services on your project.

We are not in any way prohibited, disbarred or banned from pursuing or performing work with any federal, state, or local government entity.

All of our firm's licenses, accreditations and necessary certifications are current and in-good-standing with the appropriate agencies. No personnel on our staff has ever had their license revoked or suspended.

A handwritten signature in black ink, appearing to read 'Troy Henderson'.

Troy Henderson, LEED AP
Vice President | Project Manager

September 7, 2022

Dear Mr. Honaker,

There has been no litigation, criminal investigation, or conviction, governmental or regulatory action pending, nor threatened, against Hughes Associates A&E affecting our ability to provide services on your project.

We are not in any way prohibited, disbarred or banned from pursuing or performing work with any federal, state, or local government entity.

All of our firm's licenses, accreditations and necessary certifications are current and in-good-standing with the appropriate agencies. No personnel on our staff has ever had their license revoked or suspended.



W. Michael Woolwine
President | Civil Designer

656 ELM AVENUE, SW | ROANOKE, VA 24016 | 540.342.4002 | HUGHESAE.COM



Stewart · Cooper · Newell Architects

September 6, 2022

To Whom it May Concern:

There has been no litigation, criminal investigation, or conviction, governmental or regulatory action pending, nor threatened, against Stewart-Cooper-Newell Architects affecting our ability to provide services on your project.

We are not in any way prohibited, disbarred or banned from pursuing or performing work with any federal, state, or local government entity.

All of our firm's licenses, accreditations and necessary certifications are current and in-good-standing with the appropriate agencies. No architect on our staff has ever had their architectural license revoked or suspended.

James R. Stumbo, AIA, LEED AP BD+C, NFPA
Vice President

architecture
needs assessment
master planning
interiors
consulting

James C. Stewart, AIA | Kenneth C. Newell, AIA | James R. Stumbo, AIA
719 East Second Avenue • Gastonia, NC 28054
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DAY & KINDER CONSULTING ENGINEERS, PLLC

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PHONE: 540 774-5706 ♦ EMAIL: jay@dayandkinder.com

♦ JAMES F. KINDER, JR. P.E.

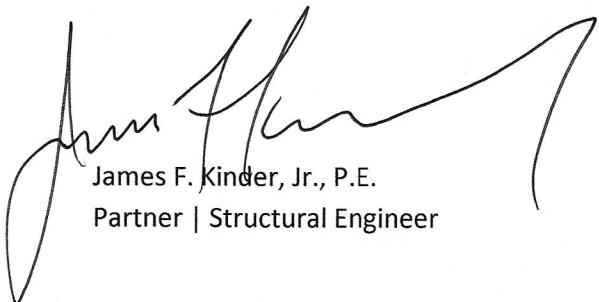
September 7, 2022

Dear Mr. Honaker,

There has been no litigation, criminal investigation, or conviction, governmental or regulatory action pending, nor threatened, against Day & Kinder Consulting Engineers affecting our ability to provide services on your project.

We are not in any way prohibited, disbarred or banned from pursuing or performing work with any federal, state, or local government entity.

All of our firm's licenses, accreditations and necessary certifications are current and in-good-standing with the appropriate agencies. No personnel on our staff has ever had their license revoked or suspended.



James F. Kinder, Jr., P.E.
Partner | Structural Engineer

September 7, 2022

Dear Mr. Honaker,

There has been no litigation, criminal investigation, or conviction, governmental or regulatory action pending, nor threatened, against Ascent Engineering Group affecting our ability to provide services on your project.

We are not in any way prohibited, disbarred or banned from pursuing or performing work with any federal, state, or local government entity.

All of our firm's licenses, accreditations and necessary certifications are current and in-good-standing with the appropriate agencies. No personnel on our staff has ever had their license revoked or suspended.



Benjamin Linkous, P.E., LEED AP
President | Electrical Engineer

Principals Involved in the Proposed Project

Please see our **Team Resumes** on pages 32 and 37.

Guarantees and Warranties

G&H standardizes warranties and guarantees per typical project specifications for one year, but seeks to accommodate an advanced level of service. It is extremely common for G&H to respond and remain involved after the one year warranty period for many items, as our Clients are typically people we come to know, or already know, on an extensive basis. We are, and have always been, a responsible service provider.

Similar Project Experience

G&H Contracting and Hughes Associates A&E completed the 10,500 SF, \$2.6 million Vinton Fire and Public Safety Building in 2008 and the 16,500 SF, \$3.3 million North Roanoke County Fire Station #1 in 2010. Both facilities included Day & Kinder Consulting Engineers as the structural engineer and Stewart Cooper Newell Architects as the fire station consultant.

G&H Contracting has delivered 11 life safety facilities throughout Southwest Virginia.

Understanding of the PPEA Delivery Method

Currently working on the \$17.9 million Christiansburg Park PPEA project, G&H understands that the PPEA delivery method:

- **Saves Time** utilizing the design-build delivery system
- **Saves Money** by saving time in getting the contractor involved early in design and planning, especially considering our level of experience and our ability to successfully build these projects previously using the public bid process
- **Eliminates Upfront Costs** as the PPEA team provides conceptual designs, cost estimates, and time schedules without financial commitment from the Owner
- **Provides a Guaranteed Maximum Price** using input from the locality and puts the financial risk on the contractor

G&H has followed this process with great interest and attention and is aware of the intricacies of the PPEA process.



PPEA CHRISTIANSBURG PARK

Christiansburg, Virginia

Client:
Town of Christiansburg

Contact:
Brad Epperley
Director of Parks & Recreation
540-382-2349, 2001
bepperley@christiansburg.org

PPEA Team:
Hill Studio
Faulconer Construction
G&H Contracting
("Vertical Contractor")

Completion Date: Spring 2023

Construction Cost: \$17,995,000

Total Size: 63 Acres

Project Type: Municipal/Recreational

Using the PPEA Delivery Method, the new Christiansburg Park is a 2-phase project and includes the new construction of:

- (4) Athletic Fields
- (3) Large Pavilions
- Splash Pad/Water Park
- Universal Design Playground with Fitness Course
- Small and Large Dog Parks
- Two Miles of Trails and Greenspace





ROANOKE CITY FIRE & EMS STATION #7

Roanoke, Virginia

Client:
Roanoke City

Contact:
Terry Kemp, Architect
(540) 853-2735

Project Team:
SFCS
with
G&H Contracting

Completion Date: February 2021
Construction Cost: \$5,997,732
Total Square Footage: 15,700 SF
Project Type: Public Safety

The Roanoke Fire and EMS Station 7 is the new construction of a two-story building. During construction G&H Contracting, Inc. helped incorporate aspects from the previous 90-year-old station. In the foyer entrance of the building, concrete squares from the demolished station were placed in the brick wall to pay homage. In the lounge area the front of a retired fire truck was used to frame the flat screen TV. The apparatus bay is equipped with a total of six overhead doors to provide quick and easy movement.





CITY OF ROANOKE FIRE & EMS STATION #3

Roanoke, Virginia

Client:
Roanoke City

Contact:
Terry Kemp, Architect
(540) 853-2735

Project Team:
RRMM
with
G&H Contracting

Completion Date: June 2009
Construction Cost: \$1,898,345
Total Square Footage: 8,000 SF
Project Type: Public Safety

This public safety building was Roanoke City's first LEED certified public facility. Station #3 achieved LEED Gold and sustainable features include recycled wastewater and rainwater harvesting systems as well as pervious concrete.

This building includes a large apparatus bay with four total overhead doors. The remainder of the building houses staff. Here they can utilize offices, a kitchen, training, and living areas.





ROANOKE CITY FIRE & EMS STATION #5

Roanoke, Virginia

Client:
Roanoke City

Contact:
Terry Kemp, Architect
(540) 853-2735

Project Team:
CR Architecture & Design
with
G&H Contracting

Completion Date: July 2010
Construction Cost: \$3,388,115
Total Square Footage: 13,400 SF
Project Type: Public Safety

Roanoke City's Station 5 is LEED Gold certified. A rainwater harvesting system and a permeable paver parking lot are a few of the green site features. Other sustainable features include high efficiency lighting systems, automated HVAC and lighting system controls and high efficiency heating, ventilating, and air conditioning systems.

The two-story 13,400 square foot facility houses a community meeting room for neighborhood organizations, training room, offices, living quarters, kitchen, exercise room and central dispatch/alarm. The apparatus bay holds four engines. This area uses radiant heating.





CLIFTON FORGE RESCUE STATION

Clifton Forge, Virginia

Client:
Clifton Forge

Contact:
Captain Matt Booze
(540) 862-3076

Project Team:
Reynolds Architects
with
G&H Contracting

Completion Date: December 2020

Construction Cost: \$1,592,376

Total Square Footage: 9,000 SF

Project Type: Public Safety

The Clifton Forge Rescue Station is a pre-engineered metal building designed to house both male and female staff. The 4,200 square foot apparatus bay includes 6 overhead doors to provide plenty of access to all vehicles. The remaining 4,800 square foot consists of bunkrooms, office space, kitchen, and training rooms.





LEXINGTON FIRE DEPARTMENT

Lexington, Virginia

Client:

Town of Lexington

Contact:

Fire Chief Ty Dickerson
(540) 463-3210

Design Team:

Reynolds Architects &
Frazier & Associates
with
G&H Contracting

Completion Date: 2009

Total Square Footage: 18,000 SF

Project Type: Public Safety

This classic style, two-story public safety building features 6 drive-thru apparatus bays that houses 12 emergency vehicles. The second-floor houses separate living quarters for male and female emergency personnel, a kitchen, training room and office space. A day room, storage space and restrooms make up the first floor. This project also received the Shenandoah Valley Conservation Award.





BLACKSBURG FIRE STATION #3

Blacksburg, Virginia

Client:
Town of Blacksburg

Contact:
Fire Chief Keith Botle
(540) 961-1175

Design Team:
Reynolds Architects
with
G&H Contracting

Completion Date: March 2016
Construction Cost: \$1,363,400
Total Square Footage: 11,482 SF
Project Type: Public Safety

The Blacksburg Fire Station is the new construction of a two-story, 11,482 square foot building. This was an extension of the Blacksburg Airport and includes 6 bays for fire trucks. Half of the building was brick veneer with the remaining portion being metal building panels. A metal roof was also installed for a sleek look. The station has rooms for five on-call members and includes laundry facilities, a day room with kitchen, exercise facility, and fire pole.





ELLISTON VOLUNTEER FIRE DEPARTMENT

Elliston, Virginia

Client: Completion Date: March 2012

Montgomery County

Construction Cost: \$1,621,000

Total Square Footage: 16,552 SF

Project Type: Public Safety

Contact:
Fire Chief Clyde Hodges
(540) 268-1055

Design Team:
Montgomery County Engineers
with
G&H Contracting

The Montgomery County Elliston Volunteer Fire Station contains a radiant heat slab in the apparatus bay instead of a traditional forced-air system. The fire station's apparatus bay also includes (6) double-stacked bays.





NORTH ROANOKE COUNTY FIRE STATION #1

Roanoke, Virginia

Client:
Roanoke County

Contact:
Chief Todd Maxey (Ret.)
Now with Blue Ridge Safety and Health
(540) 793-0764

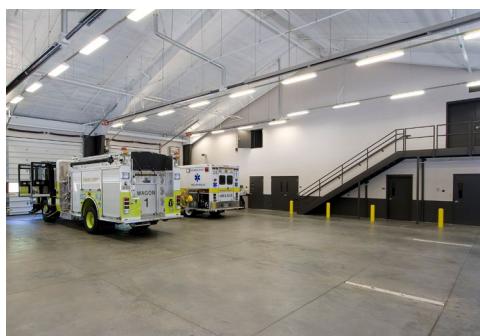
Design Team:
Hughes Associates A&E &
Stewart Cooper Newell Architects
with
Day & Kinder Consulting Engineers
(Structural Engineer)
Mann & Associates
(Mechanical Engineer)
William R. Jennings, Jr. Consulting
Engineers (Electrical Engineer)
G&H Contracting
(General Contractor)

Completion Date: May 2010
Construction Cost: \$3,371,401
Total Square Footage: 16,470 SF
Project Type: Public Safety

This new fire station, the first in Roanoke County since the 1970s, is a one-story pre-engineered metal building structure wrapped in a stone and brick façade. With 16,470 sf enclosed, the building program includes three double-loaded drive-through apparatus bays, decontamination and tool maintenance facilities, and training areas on two levels.

The residential quarters for 12 firefighters plus supervisors include a common bunkroom, private baths, fitness training room, dayroom, dining room, kitchen and laundry. Business spaces include offices for a captain, battalion chief and EMS, a conference/training room, public lobby, and public toilets.

Most of the 9.7 acre site has been left undeveloped with stands of deciduous and evergreen trees dotting a rocky hillside. A new screen of plantings hides the new building from its neighbors. Site paved areas are a combination of heavy-duty asphalt and reinforced concrete. Mechanical units and dumpsters have been screened from view with enclosures matching the building's façade.





ARCHITECTS & ENGINEERS

VINTON FIRE STATION & PUBLIC SAFETY BUILDING

Vinton, Virginia

Client: May 2008

Roanoke County

Contact:

Chief Todd Maxey (Ret.)

Now with Blue Ridge Safety and Health

(540) 793-0764

Design Team:

Hughes Associates A&E &
Stewart Cooper Newell Architects

with

Day & Kinder Consulting Engineers

(Structural Engineer)

Mann & Associates

(Mechanical Engineer)

William R. Jennings, Jr. Consulting
Engineers (Electrical Engineer)

G&H Contracting

(General Contractor)

Completion Date: May 2008

Construction Cost: \$2,686,908

Total Square Footage: 10,500 SF

Project Type: Public Safety

The Vinton Public Safety Building is a 10,500 sf facility to house the town's rescue squad, volunteers and paid staff. It is attached to the existing Vinton Firehouse. Hughes Associates A&E worked with nationally recognized fire station consultant Stewart Cooper Newell Architects on the Vinton Public Safety Building project.

The project included (4) apparatus bays (three double-stacked, one single-stacked), individual bunk rooms, rescue offices, radio and satellite communications rooms, dayroom, kitchen and dining facilities, fitness center, fitness facility (shared with adjacent Firehouse), decontamination room, shop, rescue training platforms, public entrance lobby to serve fire and rescue, community meeting room, new parking, turn-out areas, emergency generator, and related site work.





ALTAVISTA VOLUNTEER FIRE COMPANY

Altavista, Virginia

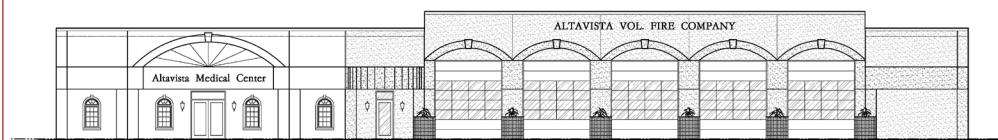
Client:
Altavista Vol. Fire Company

Contact:
Chief John E. Tucker
434-369-5281

Design Team:
Hughes Associates A&E &
with
Moore's Electrical & Mechanical
(MEP)
Witt Construction
(General Contractor)

Completion Date: 2005
Construction Cost: \$550,000
Total Square Footage: 16,000 SF
Project Type: Public Safety

The project included alterations and renovations of an existing Food Lion grocery store into a 16,000 SF fire station. The building includes five (5) apparatus bays with accessory storage spaces; EMS and radio control offices; administrative offices; serving kitchen; assembly hall; recreation room; weight and fitness room; dorm room; and toilet facilities equipped with showers and locker rooms. Hughes Associates Architects provided complete planning, architectural design, and construction administration services.



Before



Fire Department Headquarters 911 and Emergency Operations Center

danville, va



CONTACT:

David Eagle,

Previous Danville Fire Chief

Current Williamsburg Fire Chief

P: (434) 489-8427

ROLE:

Architect of Record

SCOPE:

Site Planning, Programming, Concept and Schematic Design, Historic Site Preservation, Construction Documents, Construction Administration

SIZE:

Fire HQ and EOC -
38,800 SF

DATE:

2015

COST:

\$7.3 Million

www.fire-station.com

The fire station headquarters rich in symbolism and displays; illustrates how the integration of memorials, museums and historical content within a fire station can foster relationships, tell the story of a department and community, and honor the fire-fighting profession - all while being cost effective.

The project site contained one and a half city blocks of crumbling buildings and contained two exposed stream channels. Cobblestones, hidden below the asphalt, were used as hardscaping material for exterior sidewalks and the interior floor of a glass box museum.

The glass box museum protrudes from the front face and provides enhanced views for passing vehicles or pedestrians.

Stream channels were left exposed to compliment the lawn and green-spaces enjoyed by current fire-fighters on the rear patio. Reclaimed timber framing was used to create the grid ceiling in the museum and main central corridors of the station while reclaimed brick were used as the base for the curving front reception desk.

The exterior aesthetic features reflect design elements and principals found in the surrounding buildings; while the interior of the station contains all the spaces and features of a state of the art fire station.



Stewart Cooper Newell
Architects



Toano Fire Station No. 1 - Bruton Volunteer Fire Department

james city county, va



CONTACT:

David Nice, Fire Chief
James City - Bruton VFD
3135 Forge Rd, Toano, VA 23168
P. (757) 566-3032
E. knice
@davidnicebuilders.com

ROLE:
Consulting Architect

SCOPE:

Site Planning, Programming,
Concept and Schematic Design,
Peer Review

SIZE:
24,300 SF

DATE:
2016

COST:
\$5,557,554

www.fire-station.com

The Toano Fire Station #1 was designed as a facility supporting both volunteer and career staff, built on a tight site immediately behind the original existing station. Guernsey-Tingle and SCNA worked closely with the County to design a facility that reflects the history of the site as a center of community life (a high school occupied the site in the early 1900s), and to honor the sacrifice of the volunteer department that constructed the existing facility.

The original station remained in operation while the new station was built. The new, 2-story building provides a high performance facility for volunteer and career staff and rescue squad personnel operations and training, and simultaneously provides greatly improved facilities for community use with its community/training room and associated commercial kitchen facility.

The station also includes new parking and a new site entry allowing vehicle return to the rear of the station, a new fueling facility for support of county vehicles at the upper end of James City county, and a water supply station, which provides water to local contractors



 Stewart Cooper Newell
Architects

Skyland Fire & Rescue - Valley Springs Fire Station No. 4

biltmore forest, nc



CONTACT:

Dennis Presley, Fire Chief
(828) 606-7335
dpresley@skylandfire.com

ROLE:

Architect of Record

SCOPE:

Schematic Design, Design Development, Construction Documents

SIZE:

7,852 SF

DATE:

2014

COST:

\$613,000

www.fire-station.com

Skyland Fire and Rescue -- Valley Springs Fire Station No. 4 is located in the town of Biltmore Forest, adjacent to the well-known Biltmore Estate and Gardens.

The site is situated between an exclusive residential community Biltmore Farms, which borders the Biltmore Estate and the Blue Ridge Parkway visible at the rear of the property. In donating the property to the Fire Department for use of their Fire Station, the Cecil family current owners of the estate and Biltmore Farms only requested that the building respect and blend with the timeless architecture of the surrounding community and the estate.

With a razor thin budget to build the station, the 7,800 sf two drive-thru bay station was designed with a slight taste of the French Tutor style although much of the board and batten trim was removed for budget concerns by the owner. The compact design has a central spine corridor serving three offices along with a combined Dining / Day-room and kitchen.

Further down the corridor are six sleep rooms, an exercise room and combination lavatory and shower area. A short hall leads off the main corridor at two locations to provide direct and quick access to the apparatus bays.



Stewart Cooper Newell
Architects

Shallotte Fire Department

shallotte, nc



CONTACT:

Paul Dunwell, Fire Chief
125 Wall Street
Shallotte, NC 28470
(910) 754-6262
pdunwell@atmc.net

ROLE:

Architect of Record

SCOPE:

Programming, Concept and Schematic Design, Construction Documents, Construction Administration

SIZE:

6,031 SF

DATE:

2007

COST:

\$1.18 Million

www.fire-station.com

This station was designed for a small, coastal-area town to upgrade their inadequate existing facility. The new station was designed to be budget-conscious while still addressing the needs of the growing department. The new facility houses two back-in bays with the ability to be modified for future drive-through capability if the town chooses to acquire an adjacent property. The rest of the facility offers multiple offices and records areas, a dayroom and kitchen facilities, an exercise room and dorms for crew members.

The exterior makes use of subtle material choices that match the local architecture but are marked by their durability and low maintenance requirements. The exterior walls and glazing are also rated for impact resistance, in order to withstand the occasional hurricane or severe storm.

The building is flanked by staff parking and minimal landscaping, due to the limited available lot size. The Town chose to approach the project by keeping the station close to the town center, not just for response time but also in an effort to begin developing a central, civic campus. This station represented the first step in that direction.



Stewart Cooper Newell
Architects



Team Design-Build Experience

G&H Contracting and Hughes Associates A&E have worked with New River Electrical Corporation on two design-build expansions to their corporate headquarters in Cloverdale, Virginia. In 2008, our team completed a two-story expansion to their single-story offices.

Currently, our team is in the final stages of a 7,513 SF, two-story expansion that includes an open floor plan with a conference room, closed offices on the perimeter, work room, additional bathrooms, a window in every office, and a new patio with seating and a fire pit.

References



Paul Ely, Capital Project Manager

Virginia Tech
230 Sterrett Facilities Rm. 90G
Blacksburg, VA 24061
(540) 231-3689



Mark Johnson, CEO

YMCA of Roanoke Valley
520 Church Avenue
Roanoke, VA 24016
(540) 527-9622 x3102



Dr. Martin Misicko, Vice President of Facilities

Carilion Clinic
1906 Belleview Avenue
Roanoke, VA 24014
(540) 981-7024




Mark J. Ayles, P.E., M. ASCE
Vice President | Civil Engineer

Mark joined Hughes Associates A&E in 2007 and brings experience in public sector work from his position with the Virginia Department of Transportation. While in the Salem Residency as the Assistant Resident Engineer/Transportation Engineer, Mark was responsible for all engineering related activities including review and VDOT approval of public and private land development activities in Botetourt, Craig, and Roanoke Counties. He is knowledgeable in all aspects of roadway geometrics and land development, including stormwater management, erosion and sediment control, pavement design, drainage design, utility design, traffic analysis, and flood studies.

Public Safety/Municipal

- North Roanoke County Fire and Rescue Station #1, Roanoke, VA
- City of Waynesboro, West End Fire Station (Currently in Design) Waynesboro, VA
- City of Roanoke Public Works Service Center Improvements to Buildings and Site, Roanoke, VA
- Virginia Department of Agriculture and Consumer Services Site Improvements, Lynchburg and Wytheville, VA
- Town of Blacksburg Transit Facility Expansion, Blacksburg, VA
- Sherwood Memorial Park New Building, Site Improvements, and Infrastructure, Salem, VA
- Virginia Department of Transportation, Statewide in VA
- Salem District Term Contract Projects in 2009, 2011-2012, 2014-2016, 2018
- Residency Combo Building, Fuel Island, and Chemical Storage Facility Master Plan, Lexington, VA
- Study for Traffic Operations Facility, Staunton, VA
- Study for Virginia State Police Facility, Richmond, VA

**Day & Kinder
Consulting Engineers, LLC**
James F. Kinder, Jr., P.E.
Partner | Structural Engineer

Jay Kinder joined Day & Kinder Consulting Engineers, PLLC in 1997 as a Partner. With over 35 years of professional design experience, Jay's expertise includes structural design for steel, concrete, and wood structures. Jay works with all building types including academic, healthcare, commercial, religious, industrial, and residential. Jay also has extensive professional experience in the evaluation and renovation of both existing and historic facilities. Additionally, Jay has expertise in the evaluation and remediation of structures damaged by the forces of nature such as wind, fire, flood, and earthquakes.

Public Safety/Municipal

- Williamson Road Fire Station - Roanoke, VA
- City of Waynesboro, West End Fire Station (Currently in Design) Waynesboro, VA
- Read Mountain Fire and Rescue , Building Addition, Botetourt County, VA
- Scruggs Fire Station, New Fire Station, Franklin County, VA
- Melrose Fire Station, Roanoke, VA
- Snowshoe Fire Station, New Fire Station, Snowshoe, WVA
- North Roanoke County Fire and Rescue Station #1, Roanoke, VA
- Rocky Mount Fire and Rescue Station - Rocky Mount, VA
- Lexington Fire Station - Lexington, VA
- Craig County Fire Department, New Fire Station, Craig County, VA
- Consolidated Training, New Fire and Rescue Training Facility, Salem, VA
- Carilion, Life Guard Hanger - Moneta, VA

REGISTRATION

VA Professional Engineer, 0402034160

EDUCATION

Virginia Tech, Civil Engineering, 1995


REGISTRATION

VA Professional Engineer, 0402015761

EDUCATION

Virginia Tech, Bachelor of Science, Civil Engineering, 1979



Benjamin C. Linkous, P.E., LEED AP

MEP Principal-in-Charge | Electrical Engineer

Benjie has worked on numerous project types in his tenure at the firm, many of those being Public Safety facilities. Many of those projects include renovation, historic preservation and adaptive reuse type work. However, he also has experience with healthcare facilities, commercial buildings, animal care facilities, retirement facilities and local government facilities. His role has been multi-faceted, from principal-in-charge to project manager, designer and construction administration. Because of this, he is well qualified to service any project and in any role needed.

Public Safety/Municipal

- Orlean Fire Station #21 - New Construction, Fauquier Co. VA
- Warrenton EMS/Fire Department - Tufts Building Standby Generator, Fauquier Co. VA
- Glade Hill Fire Station - New Construction, Franklin Co., VA
- Leesburg Fire Station #20 - Additions and Renovations; LEED Silver, Loudon Co. VA
- Kirkpatrick Fire and Rescue Station - New Construction; LEED Silver, Loudon Co. VA
- Round Hill Fire Station - New Construction; Targeting LEED Silver, Loudon Co. VA
- Manassas Fire Station #21 - New Construction, Manassas, VA
- Edsall Road Fire Station - New Construction; Pursuing LEED Silver, Fairfax, VA
- Scotts Run Fire Station - New Construction, Fairfax, VA
- Fairview Fire Station#32 - New Construction; Net Zero, Fairfax, VA
- Tyson's Fire Station #29 - New Construction, Fairfax, VA
- Kingstowne Consolidated Police and Fire Facility - New Construction, Fairfax, VA
- Williamson Road Fire Station; New Construction; LEED Gold, Roanoke, VA

REGISTRATION

VA Professional Engineer, 0402040708

EDUCATION

Virginia Tech, Bachelor of Science, Electrical Engineering, 2000



Boyd G. Headley, P.E., LEED AP

Project Manager | Mechanical Engineer

Boyd is a specialist in the areas of HVAC Design Engineering, Energy Management, Controls, Plumbing, Mechanical Project Closeout, and Commissioning (CX). He is the Senior Mechanical Engineer for the firm and has extensive experience with numerous project types and system types, including historic renovations.

Public Safety/Municipal

- Glade Hill Fire Station - New Construction, Franklin Co., VA
- Leesburg Fire Station #20 - Additions and Renovations; LEED Silver, Loudon Co. VA
- Round Hill Fire Station - New Construction; Targeting LEED Silver, Loudon Co. VA
- Edsall Road Fire Station - New Construction; Pursuing LEED Silver, Fairfax, VA
- Scotts Run Fire Station - New Construction, Fairfax, VA
- Fairview Fire Station#32 - New Construction; Net Zero, Fairfax, VA
- Tyson's Fire Station #29 - New Construction, Fairfax, VA
- Kingstowne Consolidated Police and Fire Facility - New Construction, Fairfax, VA
- Manassas Fire Station #21 - New Construction, Manassas, VA
- Henrico County Fire Station #19 - Commissioning; LEED Gold, Henrico, VA
- Williamson Road Fire Station; New Construction; LEED Gold, Roanoke, VA

REGISTRATION

VA Professional Engineer, 0402021922



Randy O. Spencer, P.E., RCDD

Electrical Engineer

Randy has experience with new construction, additions, and renovations for Public Safety facilities of many sizes. Other experience includes indoor/outdoor recreational facilities, public libraries, airport renovations, data centers, black box theaters, fire stations, and police stations (state of the art technology for support systems, investigative services, and forensics). Randy specializes in data communications, lighting design and maximizing energy efficiency.

Public Safety/Municipal

- Orlean Fire Station #21 - New Construction, Fauquier Co. VA
- Leesburg Fire Station #20 - Additions and Renovations; LEED Silver, Loudon Co. VA
- Kirkpatrick Fire and Rescue Station - New Construction; LEED Silver, Loudon Co. VA
- Round Hill Fire Station - New Construction; Targeting LEED Silver, Loudon Co. VA
- Manassas Fire Station #21 - New Construction, Manassas, VA
- Edsall Road Fire Station - New Construction; Pursuing LEED Silver, Fairfax, VA
- Scotts Run Fire Station - New Construction, Fairfax, VA
- Williamson Road Fire Station; New Construction; LEED Gold, Roanoke, VA

REGISTRATION

VA Professional Engineer, 0402029321

EDUCATION

Old Dominion University, Bachelor of Science in Electrical Engineering & Computer Science, 1988



Randy W. Daniels, ASPE, ICC, NFPA

Vice President of Operations | Plumbing and Fire Protection

With more than 36 years experience, Randy has worked on multiple public safety facilities. His role has varied from project manager, cost control liaison, and construction administration. Randy has experience with implementation and coordination of all MEP trades; however, he specialized in all aspects of plumbing and fire protection. Because of this, Randy is well qualified to service any project type from design through construction.

Public Safety/Municipal

- Glade Hill Fire Station - New Construction, Franklin Co., VA
- Orlean Fire Station #21 - New Construction, Fauquier Co. VA
- Leesburg Fire Station #20 - Additions and Renovations; LEED Silver, Loudon Co. VA
- Kirkpatrick Fire and Rescue Station - New Construction; LEED Silver, Loudon Co. VA
- Round Hill Fire Station - New Construction; Targeting LEED Silver, Loudon Co. VA
- Edsall Road Fire Station - New Construction; Pursuing LEED Silver, Fairfax, VA
- Scotts Run Fire Station - New Construction, Fairfax, VA
- Fairview Fire Station#32 - New Construction; Net Zero, Fairfax, VA
- Kingstowne Consolidated Police and Fire Facility - New Construction, Fairfax, VA
- Manassas Fire Station #21 - New Construction, Manassas, VA
- Williamson Road Fire Station; New Construction; LEED Gold, Roanoke, VA

EDUCATION

Virginia Tech, Bachelor of Science in Building Construction, 1991

Fire Station Design Project List



Scotts Run Fire Station #44

At **Ascent Engineering Group, Inc.**, extensive thought is put into the design of every system to assure good engineering solutions and to prevent conflicts between system components and building features, to the best of our ability. Owner requirements are translated and resolved from design development to completion, focusing on continuous improvement in all processes and advocating decisions based on fact. We are familiar with Federal, State, and Local codes, laws, and regulations governing the work.

Abingdon Fire Station - Abingdon, VA

Virginia Department of General Services Fire Station #10 - Condition Assessment Study

Edsall Road Fire Station #26 - New Construction; Pursing LEED Silver Certification, Temporary Facility, Fairfax County, VA

Fairview Fire Station #32 - New Construction, Fairfax County, VA

Kingstowne Consolidated Facility (Combined Police Station/Fire Department) - New Construction; Pursing LEED Silver Certification, Fairfax County, VA

Scotts Run Fire Station #44 - New Construction, Fairfax County, VA

Woodlawn Fire Station - Value Engineering Study, Fairfax County, VA

Tysons Fire Station #29 And Bus Transit Facility - New Construction, Value Engineering Services, Fairfax County, VA

Orlean Fire Station #11 - New Construction Fauquier County, VA

Remington Volunteer Fire And Rescue Department - Building Condition Assessment, Fauquier County, VA

Warrenton Ems/Fire Department - Tufts Building Standby Generator, Fauquier County, VA

Glade Hill Fire Station - New Construction, Franklin County, VA

Henrico Fire Station #15 - Roof Replacement, Henrico County, VA

Henrico Fire Station #19 - F&E Commissioning of MEP Systems, Henrico County, VA

Kirkpatrick Fire And Rescue Station - New Construction; LEED Silver, Loudoun County, VA

Leesburg Fire Station #20 - Additions And Renovations; LEED Silver, Loudoun County, VA

Round Hill Fire Station - New Construction, Loudoun County, VA

Manassas Fire Station #521 - New Construction, Mannassas, VA

Williamson Road Fire Station - New Construction, LEED Gold, Roanoke City, VA

Spotsylvania County Fire Station #6 - Expansion / Renovation and Bunkroom Addition, Spotsylvania County, VA

Orlean Volunteer Fire Station #11



Leesburg Fire Station #20



Kirkpatrick Fire and Rescue Station #27



Round Hill Fire Station #4

Subcontractor Selection Process

G&H is familiar with the local community of subcontractors that may work on this project. Part of our subcontractor process is to select subs that are financially stable and reasonable, deliver high quality work, have a great safety record, and can work within the scope of the project.

The selection of quality workers is more difficult in today's times due to the talent that has exited the workforce. This is another reason G&H looks to self-perform as many tasks as possible, as to offer more control and mitigate risk. G&H competes frequently in the public bidding process to attract new subcontractor opportunities and to expand our database of available relationships. G&H is also developing future resources via the Registered Apprenticeship Program with Roanoke City, Roanoke County, and City of Salem Schools for future sustainability.

G&H is very cognizant of paying trade partners timely, and carries an excellent reputation for such, to create successful working relationships.

The PPEA process affords our input to "methods and means" to determine best practices, materials, vendors, and local trades to make accessibility, constructability, affordability, and workforce availability all prevalent to ensure a successful project in a demanding environment.

3.1.3. Completed Projects List in the Last 3 Years

Roanoke Fire-EMS #7 – Grandin \$6,021,000
Terry, City of Roanoke, 540-853-2735

Commonwealth Center for Advanced Technology –
Henry County \$6,159,000
Mark Heath, Martinsville Henry County Econ. Development,
276-403-5940

Melrose Library – Roanoke City \$3,582,000
Terry Kemp, City of Roanoke, 540-853-2735

Blue Ridge Health & Wellness – Salem, VA \$2,250,000
Colleen McClean, Practice Manager, 540-205-3351

Bridgewater College Library – Bridgewater, VA. \$9,048,000
Kristy Rhea, VP of IT & CIO Bridgewater College,
540-828-5741

Daleville Town Center Apartments – Daleville, VA
\$5,389,000, Andy Kelderhouse, President Fralin & Waldron,
540-266-3711

Glebe Memory Care Facility – Daleville, VA \$4,450,000
Ellen D'Ardenne, Executive Director, 540-591-2100

Northstar Ministry Center – Blacksburg, VA \$6,038,000
Jeff Noble, Lead Pastor, 540-443-0099

Cardinal Glass Expansion – Vinton \$4,585,000
Contact relocated to Florida

Hollins University Student Housing – Roanoke \$3,355,000
Dr. Kerri Edmonds, Exec. VP & COO, 540-362-6630

Colonial Elementary School – Blue Ridge \$21,613,000
Andy Dewease, Director of Operations BCPS, 540-473-8363

Salem High School – Salem \$27,247,000
Dr. Forrest Jones, Director of Operation Salem City Schools,
540-375-3030

Our Lady of the Valley – Roanoke \$5,960,000
John Albert, Dir. Of Development CSM, 540-563-4565

Bank of Botetourt – Vinton \$1,062,000
Andy Shotwell, Senior VP, 540-591-5000

RDG Filings – Salem \$3,659,000
Jonathon Elliott, CEO, 415-317-9171

Tinker Creek Transfer Station – Roanoke \$3,785,000
Jeremy Garrett, Dir. Operations Technical Services,
540-857-5050



Troy Henderson, LEED AP

PPEA Project Manager, Pre-Construction Manager, & Construction Project Manager

Troy has been with G&H Contracting for 20 years and brings significant expertise to any project. Mr. Henderson's experience includes all facets of construction, pre-construction, value engineering, scheduling buyout, and budget control. He has managed various negotiated private endeavors as well as publicly bid projects. His energy, excitement, and dedication to his family's business and his community have created resounding relationships with all types of clients including private, public, and healthcare stakeholders. Troy is a graduate of Virginia Tech and is certified as a LEED AP.

Public Safety/Municipal

- North Roanoke County Fire Station #1, Roanoke VA
- Blacksburg Fire Station, Blacksburg, VA
- Clifton Forge Rescue Station, Clifton Forge, VA
- Craig County Fire Department, Craig County, VA
- Elliston Volunteer Fire Department, Elliston, VA
- Lexington Fire Department, Lexington, VA
- Lexington Police Department, Lexington, VA
- Melrose Fire Station #5, Roanoke City, VA
- Williamson Road Fire & EMS Station #3, Roanoke City, VA
- Roanoke City Fire & EMS Station #7 (Grandin), Roanoke, VA
- Vinton Fire & Rescue, Vinton, VA
- STARS – Statewide Area Radio System

Roanoke County Municipal Projects

- Burlington Elementary School
- Masons Cove Elementary School
- Department of Social Services Phase II
- Glenvar Library

CONTACT INFORMATION

Office: (540) 387-5059

Email: thenderson@ghcontracting.com

CERTIFICATIONS

LEED AP

EDUCATION

Virginia Tech, Bachelor of Arts in Communications, 2002

WORK EXPERIENCE

2002 - Present

G&H Contracting

Vice President & Project Manager

PROFESSIONAL AFFILIATIONS

Association General Contractors of Virginia State Board

Salem YMCA-Advisory Board Member

Roanoke County Education Foundation-Trustee 2012-2016

2009 Leadership Roanoke Valley Graduate

Salem Rotarian

Snyder Nursing Home Trustee

Chairman Roanoke County Planning Commission, 2019



Earle H. Shumate, Associate AIA, LEED AP

Design-Construction Coordinator (Design Manager)

Creative and innovative design solutions are a hallmark of Earle's work. With over 22 years experience at a design-build firm before joining Hughes Associates A&E in 2005, he is able to integrate his extensive knowledge of construction with the aesthetic sense of a mature designer. He works closely with clients to help them focus on both their programmatic needs and aesthetic desires. Incorporating the philosophy that good design does not have to be expensive, his goal in every project is to create durable and sustainable spaces that inspire their users, improve operational efficiencies, and meet budget and scheduling goals during construction.

Public Safety/Municipal

- North Roanoke County Fire and Rescue Station #1, Roanoke, VA
- City of Waynesboro, West End Fire Station (Currently in Design) Waynesboro, VA
- Vinton Volunteer Rescue Squad – New Station, Vinton, VA
- Blacksburg Volunteer Rescue Squad – Station Master Plan, Blacksburg, VA
- Town of Stuart – New Fire/Rescue Station, Stuart, VA
- City of Roanoke – Roanoke City Mills Re-use Feasibility Study, Roanoke, VA
- VDOT Traffic Operations Center & State Police Offices Master Plan, Richmond, VA
- Pulaski Public Safety Building - Program and Site Evaluations, Pulaski, VA

K-12 Education

- William Byrd High School - Renovations and Additions, Roanoke, VA
- Fallon Park Elementary School - New Construction, Roanoke, VA
- Round Hill Elementary School – 4 Phase Expansion and Renovation, Roanoke, VA
- Roanoke City Public Schools, Security Vestibules - Roanoke, VA
 - o Morningside Elementary School, including Modifications to Admin & Library
 - o Forest Park Elementary School
 - o Highland Park Elementary School
 - o Preston Park Elementary School

CONTACT INFORMATION

Office: (540) 342-4002

Email: eshumate@hughesae.com

EDUCATION

University of Virginia, Bachelor of Architecture, 1981

WORK EXPERIENCE

2005 - Present

Hughes Associates Architects & Engineers
Senior Designer

1982 - 2004

Building Specialists, Inc.
Vice President

PROFESSIONAL AFFILIATIONS

Associate American Institute of Architects

Blue Ridge Chapter Board

Past Directors Member

Roanoke Regional Home Builders Association

Member | Director

Construction Specifications Institute

Blue Ridge Chapter

Past Director and President

Virginia State Board for Contractors

Past Member and Chairman

RRHBA Remodelors' Council

Past Chairman



John R. Garrett, AIA, NCARB, LEED AP

Designer of Record

John has over 22 years of experience in design and construction document production. He has depth of understanding in how to translate the project vision into the drawings and specifications that graphically and technically represent the project for construction. He has the experience to think creatively to solve a problem, schedule a path for the project, and develop project budgets and manpower predictions. John is proficient in the technical design aspect as well as having the interpersonal skills to communicate clearly with his clients.

Public Safety/Municipal

- Roanoke City Fire Station #3 - Roanoke, VA*
- Town of Blacksburg Transit Facility Additions and Renovations - Blacksburg, VA
- Virginia Employment Commission Roof Replacement - Covington, VA
- Lynchburg Police Station, Misc. Rooms - Lynchburg, VA*

Virginia Department of Transportation

- Term Contract projects from 2015, 2016, 2018-Current – Salem District
- Buchanan AHQ New Office Building - Buchanan, VA
- Chemical Storage Building - Roof Replacement - Millboro, VA
- Equipment Storage/Office - Roof Replacement - Moscow, VA
- Re-roof Chemical Storage Building - Fancy Hill AHQ, Salem, VA
- Salem District Shop Heating System, Salem, VA
- ADA Improvements - Lynchburg, VA*
- Chemical Storage Building Study & New Construction - Culpeper, VA*
- Combo Building - Various Locations in Lynchburg District - Charlotte Court House, Phenix, and Halifax*
- Residency Building Roof Replacement & Interior Renovation – Charlottesville, VA*
- Residency Office Building - Farmville, VA*
- Shop Building, Training Room - Lynchburg, VA*
- Truck Shed - Keene, VA*

K-12 Education

- William Byrd High School - Roanoke, Virginia
- Morningside Elementary School Addition - Roanoke, VA
- Masons Cove Elementary School - Roanoke County, VA*
- Green Valley Elementary School - Roanoke County, VA*
- Burlington Elementary School - Roanoke County, VA*
- Price's Fork Elementary School - Montgomery County, VA*
- Glenvar High School - Roanoke County, VA*

CONTACT INFORMATION

Office: (540) 342-4002
Email: jgarrett@hughesae.com

REGISTRATION

2006, Virginia Licensed Architect #12569

EDUCATION

Virginia Tech, Bachelor of Architecture, 2006

WORK EXPERIENCE

2019 - Present
Hughes Associates Architects & Engineers
Project Architect

2017 - 2019
SFCS
Project Architect

2015 - 2016
Virginia A&E
Project Architect

2014 - 2015
Flying Mouse Brewery
Architectural Consultant

2010 - 2015
Spectrum Design
Project Architect

2006 - 2009
RRMM
Project Architect

* Indicates projects delivered under a previous employer



Kenneth C. Newell, AIA, LEED AP BD+C

Fire Station/Public Safety Consultant

A Principal and Partner with Stewart Cooper Newell Architects since 1994, [Ken has been directly involved in over 275 of the firm's 350+ Fire/EMS and Public Safety projects](#). Ken is a graduate of North Carolina State University and the University of North Carolina at Charlotte. A highly rated presenter who regularly speaks at various national and state fire conferences. He also contributes frequently to national and regional Fire/EMS publications. Over the last two decades, he has earned a respected reputation around the United States in efficient, effective and budget-conscious design and programming of Fire and Rescue Stations as well as Police Departments.

Public Safety/Municipal

- Chesterfield, VA Fire Station No. 8
- Spartanburg, SC Fire Department Headquarters and Admin
- Greenville, NC Fire Station No. 7 and Dispatch
- Hemby Bridge, NC Fire Department
- Waxhaw, NC VFD Sub-Station
- Mills River, NC Fire and Rescue
- Danville, VA Fire Department
- Portsmouth, VA Cradock Fire Station 11
- Hampton, VA Fire Station No. 11
- Henrico County, VA Fire Stations No. 10 & 13
- Kannapolis, NC Fire Station No. 2 & 3
- Harrisburg, NC Fire Station No. 2 & 3

REGISTRATION

VA Licensed Architect, 2003 - 0401012718

EDUCATION

North Carolina State University,
Bachelor of Architecture, 1988

University of North Carolina at Charlotte,
Bachelor of Architecture, 1986



Jim R. Stumbo, AIA, LEED AP BD+C

Fire Station/Public Safety Consultant

Jim joined Stewart Cooper Newell Architects more than twenty years ago, and became a partner and principal in 2002. His design experience includes a variety of Public Safety and municipal buildings and complexes, as well as various community projects. He has developed a national reputation for his expertise in the design of [Fire Stations and for his work on Public Safety Training Facilities](#). Jim Stumbo has written professional articles on design for regional Fire publications, and teaches design courses at regional and national Fire Station design conferences.

Public Safety/Municipal

- Orange County, NC EMS & Medical Examination Quarters
- North Augusta, SC Public Safety Headquarters
- Waterstone, SC Fire & EMS
- Radford, VA Fire & Rescue
- Williamsburg, VA Police Department
- City of Radford, VA Fire Station
- Portsmouth, VA Cradock Fire Station #11
- Chesterfield County, VA Fire Station 5
- Hampton, VA Fire Training Facility
- Fairfax County, VA Merrifield Fire Station
- City of Richmond, VA Fire Stations 8, 19, 20, 21

EDUCATION

North Carolina State University,
Bachelor of Architecture, 1986

3.1.4. Points of Contact for Further Information

G&H Contracting, Inc.

Troy Henderson, Project Manager
1383 Southside Drive
Salem, VA 24153
(540) 387-5059
THenderson@GHContracting.com

Hughes Associates Architects & Engineers

Earle Shumate, Senior Designer
656 Elm Ave SW
Roanoke, VA 24016
(540) 342-4002
EShumate@HughesAE.com

3.1.5. Financial Statement

Please see **Volume II, Redacted Proprietary Information**, for our Financial Statement.



The Cincinnati Insurance Company ■ The Cincinnati Indemnity Company
The Cincinnati Casualty Company ■ The Cincinnati Specialty Underwriters Insurance
Company

March 2, 2022

RE: G&H Contracting, Inc. - Surety Prequalification

To Whom It May Concern:

We are privileged to be the Surety for G & H Contracting, Inc. since 1999 and consider this company to be one of our most valued clients. The Cincinnati Insurance Company has an A.M. Best Rating of "A+" (Superior), and is listed as an approved surety company in the Circular 570, and is licensed to do business in all 50 states.

The management team of G & H Contracting, Inc. demonstrates excellence and added value to the projects they undertake. They have earned the respect of The Cincinnati Insurance Company, owners, architects and engineers through the years. Without question, we can recommend this company to you and we think that you will quickly see the high degree of professionalism and expertise they offer.

G & H Contracting, Inc. is financially sound and has the ability and financial capacity to bond single projects in the \$40,000,000 single job range with an aggregate of \$80,000,000. These are parameters not absolutes and The Cincinnati Insurance Company is willing to consider an increase in this program.

Should G & H Contracting, Inc. be awarded a contract for this project, the execution of any performance and/or payment bonds would be subject to a review of the final contract terms, conditions, and financing by our client and The Cincinnati Insurance Company and we assume no liability to third parties or to you if for any reason we do not execute such bonds.

Sincerely,

Chris Rittenhouse

Chris Rittenhouse
Bond Field Director
The Cincinnati Insurance Company

Mailing Address: P.O. Box 145496 • Cincinnati, Ohio 45250-5496 ■ Headquarters: 6200 S. Gilmore Road • Fairfield, Ohio
45014-5141
cinf.com ■ 513-870-2000



3.1.6. Submitting Officers

G&H Contracting - Troy Henderson, Vice President

Hughes Associates A&E - Michael Woolwine, President | Mark Ayles, Vice President

Stewart Cooper Newell Architects - Ken Newell, President | Jim Stumbo, Vice President

Day & Kinder Consulting Engineers - Jay Kinder, Partner

Ascent Engineering Group - Benji Linkous, President | Randy Daniels, VP of Operations

3.1.7. Conflict of Interest Statements

None of our team members have a conflicts of interests with this project.

3.1.8. Plan to Obtain Trade/Craft Workers

G&H ensures bid participation by inviting many subcontractors from our bidder database. Based on our current projects and our knowledge of the current construction climate, we do not anticipate any difficulty finding a sufficient number of workers in all trades/crafts for this project.

3.1.9. Availability of Training/Apprenticeship Programs

G&H is a founder of the Registered Apprenticeship Program in the Roanoke Valley and work alongside Jamie Soltis, Assistant Superintendent with Salem City Schools at (540) 312-8991.

3.1.10. Commitment to DMBE Firms

G&H Contracting has formed strong, long-lasting relationships with companies of all sizes and backgrounds across the Construction and Architecture & Engineering industries. Working with small and diverse businesses promotes growth in the community, leads to prompt and personal communication, and builds stronger bonds and familiarity with the project team.

As you will notice, G&H Contracting, Hughes Associates A&E, Stewart Cooper Newell Architects, Day & Kinder Consulting Engineers, and Ascent Engineering Group **are all small businesses** with which we have strong and long-lasting relationships. Our project team has developed seamless ways of working together and has learned to anticipate and adapt to the needs of other project team members. Our team has the optimal amount of members to deliver high-quality services without the excessive amount of involvement that can occur with larger corporate entities.

3.1.11. Statements of Non-Debarment/Suspension

Please see our team's statements of great legal standing with **Claims, Litigation, and Debarment/Suspension** on pages 10-14.

Qualification Statement

Please see **Volume II, Redacted Proprietary Information**, for our Qualification Statement.

3.1.12. Worker Safety Program

G&H requires workers to participate in safety education programs such as OSHA 10-hour, OSHA 30-hour, Focus Four via Builders Mutual, and in-house Tool Talks compiled by our Safety Committee which is attended by field staff, supervision, project management, and executive staff.

G&H has also been a long-time participant in OSHA's Complimentary Compliance program.

3.2

PROJECT CHARACTERISTICS

3.2. Project Characteristics

3.2.1. Project Description

The G&H PPEA team will provide turn-key design and construction services for the new Bonsack Fire Station located on Mexico Way near Parkway Wesleyan Church, in partnership with Roanoke County. This will be a 12,000 SF station with three apparatus bays, admin/operations, kitchen, dining, fitness, housing, locker rooms, showers, and laundry.

The scope of work for the project includes:

- Financing (Optional)
- Site Design
- Facility Design
- Permitting
- Construction
- Business Planning
- Business Operation

Roanoke County will fund the construction directly. G&H Contracting will deliver the facility within 17 months including design and construction. This will save about 3 months from a traditional project schedule, not including municipality durations for procurements.

3.2.2. Work Performed by Roanoke County

Before entering into an agreement, we request that Roanoke County:

- Select Points of Contact for all aspects of contracts, financing, management, design, and construction.
- Select a committee to work with our team to program, provide feedback on conceptual plans, budgeting, community needs, and regulatory agency requirements.
- Provide reasonable access to the proposed site

The following work will be required of Roanoke County:

- Review PPEA proposals
- Serve as an Admin to the PPEA process
- Negotiate the Interim or Comprehensive Agreement
- Perform standard permitting and review
- Fund the construction of the fire station

3.2.3. Permits, Approvals, & Schedule

Permits and approvals include, but are not limited to the following:

- Roanoke City Plan Review
- Zoning Permit
- Building, Structural, MEP, and Fire Protection Permits
- Building plans will be submitted to Roanoke City for building permit
- Land disturbance permit will be issued following the site plan approval
- Stormwater management requirements, including any environmental permits will be issued through the development plans
- Virginia Department of Health

Schedule

In the Schematic Design, Preliminary Design, and Final Design Stages, Roanoke County will review and Roanoke City will issue the necessary permits (each review should take three weeks). Following these stages, our team will meet with Roanoke County for a design kick-off



CIVIL



ARCHITECTURAL

meeting for the Schematic Design Phase to discuss the details of the project. Following this format, by the start of each proceeding phase, our teams will be aligned and on the same level of understanding.

3.2.4. Adverse Impacts of Project

G&H does not anticipate significant adverse social, economic or environmental impacts of this project. Any complications will be mitigated by compliance with any applicable federal, state, and county regulations and/or guidelines.

Looking ahead, our team is prepared to address any potential impacts which may include utility connection issues, inefficiencies with traffic circulation, or any disruptions with the surrounding business. Due to the site being in a relatively clear area and having worked in much more restricted and challenging areas, our team can offer quick and intelligent solutions to any issues.

ECS Mid-Atlantic, LLC performed a Phase 1 Environmental Site Assessment, and subsurface exploration, laboratory testing, and geotechnical engineering analysis.

3.2.5. Positive Impacts of Project

The new Bonsack Fire Station will be a positive force for change in the community. The most prominent positive impacts we anticipate are:

- A fire station that will meet your life safety needs for the Bonsack area
- Increased satisfaction and job efficiency of fire and rescue teams
- An updated facility to use for life safety related educational opportunities
- A long-lasting, energy efficient building with reduced life cycle costs
- An environmentally conscious facility using the latest trends in design, equipment, materials, and operational efficiency
- Tax dollars and time saved using the PPEA delivery method
- High Community Support

3.2.6. Project Schedule

Please see our [Project Schedule](#) to the right.



3.2.7. Contingency Plans

G&H will help develop any contingency plans if needed, but we have never approached a project with a back up plan for failure. Our projects must be delivered and are accustomed to doing so.

3.2.8. Risk & Liability Allocation

G&H Contracting and Hughes Associates A&E are directly responsible for any delays in design and/or construction, as we carry all design, development, and construction risks as will be part of the comprehensive agreement and guaranteed maximum price. Prior to the start of the project, G&H may have a performance and completion bond in place. Our team assumes responsibility and guarantees the timely completion of all of our responsibilities.

Ownership

G&H Contracting understands that Roanoke County owns the land for the new fire station. At a later time, full legal liability for the property will reside with Roanoke County and they will be responsible for its security and insurance. During the design-build phase, G&H will assume the aforementioned legal liabilities as typically held on site. Any inclusions will be listed into the Comprehensive Agreement.

Law Enforcement

Upon occupancy, Roanoke County will have full responsibility for enforcing all laws pertaining to the property.

Restrictions

Our team does not have any restrictions.

Operation

Upon occupancy, standard warranties will be transferred to Roanoke County, who will also assume responsibility for all expenses and services associated with the building and site.

3.2.9. Assumptions & Restrictions

Roanoke County will own the fire station and will have the same rights and responsibilities for the new fire station as it does for any other County facility.

3.2.10. Phased or Partial Openings

There are no anticipated partial or phased openings for this project.

3.2.11. Applicable Standards & Quality Control

Preliminary Concepts and Exhibits were developed for the project. Per requirements, we will substantially conform to these exhibits and the design team will enhance the project with required standards and review quality control.

3.2.12. Assumptions for Success

Our assumptions relied on for a successful project are:

- Adequate funding will be available in a timely manner
- We assume there will not be another global pandemic outbreak
- Inflation will be present, but not as volatile as earlier in the year
- Government approvals will occur in a reasonable amount of time
- Due to the site being clear with access to utilities, we do not assume any unmitigatable conditions are present

3.2.13. Contingencies for Success

Depending on the financing structure, either G&H or Roanoke County must secure project funds.

- Roanoke County may include financial contingencies for design/program modifications that may impact construction
- Roanoke County may include a construction financial contingency

3.3

PROJECT FINANCING

3.3. Project Financing

3.3.1. Preliminary Estimate & Methodology

Please see [Volume II, Redacted Proprietary Information](#), for our Preliminary Estimate and Methodology.

3.3.2. Plan for Development, Financing, and Operation

Please see [Volume II, Redacted Proprietary Information](#), for our Plan.

3.3.3. Plan: Assumptions of Major Elements

G&H Contracting will not furnish or equip the facility outside or normal construction provided items.

3.3.4. Plan: Risk Factors & Methods of Resolve

The construction risk on this project resides with G&H Contracting through the Comprehensive Agreement. The construction risk will be mitigated by several factors:

- The soils are not expected to pose an unmitigatable risk to the budget or schedule, based on preliminary research
- The construction schedule is planned to avoid exposure to lengthy weather delays by securing the site during more preferable climate
- G&H has substantial experience in the development and construction of fire stations
- G&H has chosen a team with extensive fire station experience
- G&H is in great standing with our bonding company and can supply a payment and performance bond

Roanoke County is responsible for equipping the facility and startup operations.

3.3.5. Federal/State/Local Resources

Financial support required for the project will come from Roanoke County. State or federal government resources are welcome if the County has access to those resources for the development of public safety facilities.

Please see [Volume II, Redacted Proprietary Information](#), for our detailed Project Estimate and Draw Schedule.

3.4

PROJECT BENEFIT & COMPATIBILITY

3.4. Project Benefit & Compatibility

3.4.1. Community Benefits & Economic Impact

The Bonsack community will directly benefit from the new fire station with increased response times and, possibly, a decrease in severity of negative events. The PPEA process typically shortens project delivery time over traditional public capital project procurements of similar size and scope. This overall efficiency as a method results in taxpayer savings to be allocated toward other efforts by Roanoke County.

Our team intends to maximize participation among local contractors and other service providers, including SWaM businesses. The new facility may also attract outside fire and rescue talent looking to relocate or start a new career at a new and improved fire station. Our project team, as well as all involved in the designing and building of this project will directly benefit.

3.4.2. Public & Government Support or Opposition

Our team believes the new fire station will garner strong support from the community and local government alike. Citizens will feel more confident in the County to keep them protected and the County will have a new station to use within an under-served area.

More financially conservative individuals who don't see the need for a new fire station may oppose this project.

3.4.3. Strategy & Plan to Disperse Information

Designing and building a new fire station is exciting for the community and local government. Our team may present this project at local government sessions, at public events, or to the community with assistance from Roanoke County. Our team is available for Roanoke County meetings, Board of Supervisor meetings, or any other special events to better discuss the PPEA process or anything related to programming, schedule, cost, financials, and/or design. For other milestones of the project, such as groundbreakings, topping-off ceremony, or ribbon cuttings, our team will work with Roanoke County to ensure these are successful and positive experiences.

3.4.4. Compatibility with Economic Development Efforts

This project aligns very well with local, regional, and state economic development efforts and, yet again, highlights Roanoke County's ongoing efforts to improve its citizen's way of life.

3.4.5. Compatibility with Roanoke County

The Bonsack Fire Station is compatible with the County's comprehensive plan and will be designed, constructed, and operated consistent with all environmental, land use, building code, and design standard ordinances and regulations. There will be no major impacts to the County's infrastructure and transportation plans. The County is the best resource regarding impacts on capital improvement and capital budget plans.

3.4.6. Participation with SWaM Businesses

G&H Contracting has formed strong, long-lasting relationships with companies of all sizes and backgrounds across the Architecture & Engineering and Construction industries. Working with small and diverse businesses promotes growth in the community, leads to prompt and personal communication, and builds stronger bonds and familiarity with the project team.

As you will notice, G&H Contracting, Hughes Associates A&E, Stewart Cooper Newell Architects, Day & Kinder Consulting Engineers, and Ascent Engineering Group **are all small businesses** with which we have strong and long-lasting relationships. Our project team has developed seamless ways of working together and learned to anticipate and adapt to the needs of other project team members. Our team has the optimal amount of members to deliver high-quality services without the excessive amount of involvement that can occur with larger corporate entities.

3.5

ADDITIONAL INFORMATION

3.5. Additional Information

3.5.1. Project Understanding & Approach

Project Understanding

Our understanding of the project is not just our vast experience with Life Safety projects. Our understanding goes beyond brick and mortar. We understand the value and the task at hand building a County project on a City property. We understand the Input zoning category and what that entails from a land use perspective. We understand the community and the traffic through that corridor and how important a project this is to the area businesses and residents.

Potential Problems During Design and Construction

We understand potential traffic issues in this area as well as in-road utilities that will have to be adjusted with minimal impact to neighboring locations on Mexico Way and potential environmental impacts in this area. All can be mitigated along with additional problems that typically come along in this line of work. These are problems we're accustomed to. We are also quite familiar now with items we have not been accustomed to like escalating cost issues, "holding prices" and supply chain issues in the modern era and how to control.

Methods to Mitigate Problems

With up front planning, proper communication, and pre-construction processes these can be much more easily mitigated with this contract model as opposed to traditional Design/Bid/Build. We can start earlier, make adjustments and respond to ever-changing challenges.

Work Performed by G&H Contracting

G&H will, as typically done, self perform foundation concrete work and slabs on grade. We will handle all misc./finish carpentry and blocking, doors and hardware and specialties supply and installation as well as many other various items in between that is short in labor supply. We may if need be complete site work grading and utilities and steel erection if in short supply of available labor forces. Items such as masonry/mechanical/electrical will be outsourced.

3.5.2. Approach to Project Management

Approach to Change Orders

Project Management approach to Change Orders is based upon requests to modify the scope of work. So in order to minimize the design team and contractor must work well together and have extensive experience with the task at hand and provide a detailed established scope of work that is communicated to the owner and confirmed acceptance of such. From there change orders are only derived in two instances. Environmental pre-existing unknown conditions that can be accounted for in the contract in advance, or Owner requested modifications that can be protected and allocated for as a contingency in the project.

Tools for Planning, Scheduling, Estimating, and Construction

Management

Our people are our greatest tools for planning, scheduling, estimating and management. We complement and outfit these people with tools to assist in all phases. We use integrated software internally that can be linked externally via vehicles like Procore (a collaborative software) that serves contractors, designers and owners.

Quality Control

Quality control is made up of internal and external forces. Municipal and Special inspection services, regular designer/contractor/Owner meetings and progress reviews and internally we have high degree of pride and responsibility to provide quality work combined with years of expertise and service to know what has to be done to exceed contractual obligations that is the minimum.

Safety Management

Please see **Safety** on Page 9.

Current Workload and Ability to Proceed Promptly

Our current capacity fits well to a December hire date with construction to follow after. While G&H is blessed with an extremely healthy backlog this project times itself to be a very good fit for preconstruction services to start end of the year along with very good timing considering construction will quickly follow. We can proceed with either portion as needed.

Please see **Volume II, Redacted Proprietary Information**, for our Projects in Progress.

RFP Form Issued August 1, 2022

Addendum #1 dated September 1, 2022

2023-020 - SOLICITED PPEA PROPOSALS FOR CONSTRUCTION OF

Addendum # 1 Signature Page

Sign Name:



Troy Henderson
Print Name:

Name of Firm: G&H Contracting

Date: 9/14/2022



THANK YOU

On behalf of G&H Contracting and the rest of our team, thank you again for your time in reviewing our information. A large part of the G&H's success story can be attributed to repeat business from strong relationships. I look forward to hearing from you and hope we can continue to provide Roanoke County with the services they deserve.

Sincerely,
Troy

G&H Contracting, Inc.
1383 Southside Drive
Salem, VA 24153
Phone: (540) 387-5059

For more information, visit:
www.GHContracting.com

