



Expression of Interest

JFHQ Parking and Storage Area EOI Design Services at Coonskin Complex

West Virginia Army National Guard

Solicitation No. CEOI 0603 ADJ1700000001

RECEIVED

2016 AUG 18 PM 12:52

WV PURCHASING
DIVISION

August 18, 2016



COMMUNITY
SOLUTIONS
GROUP

TABLE OF CONTENTS

COVER LETTER	3
FIRM INFORMATION	5
PROJECT APPROACH	9
QUALIFICATIONS	9
<i>Civil Experience</i>	9
<i>Mechanical, Electrical, and Plumbing Experience</i>	41
<i>Geotechnical and Structural Experience</i>	47
<i>Landscape Architecture, Planning, Economics and Urban Design Experience</i>	57
REQUIRED FORMS	85

August 18, 2016

Construction and Facilities Management Office
West Virginia Army National Guard
Attention: Colonel James W. Dean II
1707 Coonskin Drive, Charleston, WV 25311

Re: Expression of Interest | JFHQ Parking and Storage Area EOI Design Services
at Coonskin Complex | Solicitation No. CEOI 0603 ADJ1700000001

Dear Colonel Dean,

From Vision to Ribbon, a project must be shepherded through multiple stages which often require the knowledge and expertise of a number of skilled specialists. This commitment to delivering results is the primary mission of GAI Consultants, Inc (GAI). We endeavor to balance imagination, creativity, and reliability by combining all the skills necessary to envision, design, plan, and manage your project to get the results you want, on-time and on-budget.

GAI is a 900+ person engineering, landscape architecture, planning and environmental consulting firm with over 57 years of experience delivering innovative engineering solutions to our clients. Through engineering expertise and broad, deep knowledge of regulatory processes, we transform ideas into reality with solutions that make a real difference to our clients. We are extremely proud of the legacy of work that we have championed in West Virginia over the last 27 years, and we look forward to the opportunity to continue that relationship for the next quarter of a century and beyond.

As you read on, you will discover that what separates GAI from our competition is the wide variety of services that we can offer our clients under one "roof." Our unique business unit structure affords us the ability to assemble a specialized team of professionals with a combined technical knowledge encompassing the fields of engineering, landscape architecture, transportation, land use planning, development, zoning, urban design, public outreach, and civic engagement and process. Because of this, we are confident we are far better positioned than most to deliver at a very high level of creative, yet pragmatic solutions to any type of project that we might be asked to perform.

As you will see in our qualifications, we have completed multiple projects from across the country involving similar, if not identical services to the ones identified in your request for qualifications. Locally, GAI is part of the design team that is completing updates to the Charleston Civic Center, of which a portion of GAI's charge was to modify the existing surface parking area along Lee Street, and the ground floor level of the Quarrier Street parking garage. Of utmost importance was the necessity to ensure adequate vertical clearance was maintained between the ground and second floor levels for semis and delivery vans, and to ensure delivery truck flow within



gaiconsultants.com/communitysolutions

the new parking areas. Another project designed by GAI that has just completed construction is the West Virginia State Capitol Campus Security Upgrades. Due to recent threat level increases, the WV Division of Protective Services asked GAI to develop plans to reduce vehicular-born access into the campus, while maintaining an open, park-like, pedestrian-oriented setting for the general public. Working closely with the WV National Guard, GAI achieved the intent with architecturally sympathetic seat walls with limestone veneers matching the main capitol building, and wrought-iron gates and fencing with brick columns matching the historic Governor's Mansion.

Our past history and familiarity with West Virginia and the National Guard combined with our intimate knowledge of the project requirements will prove to be a valuable asset to the West Virginia Army National Guard, and will ensure the successful completion and implementation of this important site and infrastructure improvements project. This continued relationship demonstrates our capability to work corroboratively with our clients—*Concept to Construction*—advancing vision into tangible projects that will surely benefit the West Virginia National Guard and the soldiers and airmen that use the Joint Forces Headquarters Facility to live and work on a daily basis.

Because our employees are also active and retired members of the West Virginia National Guard, we feel we are also stakeholders in all NGB/DoD projects we are asked to be involved in. We value the relationship that we have built with the National Guard over the years and take the trust that we are given by you very seriously. We look forward to speaking with you further about our qualifications and how the GAI team can help turn all of your potential projects into a reality. Please feel free to contact me at any time with questions at t.schoolcraft@gaiconsultants.com or 304.926.8100.

Sincerely,
GAI Consultants, Inc.

R. Todd Schoolcraft, PLA, ASLA, LEED GA
Project Manager



96%

OF OUR CLIENTS
WOULD RECOMMEND GAI

— by independent survey

Firm Information

Streamlining Solutions

GAI Consultants, Inc. is a 900+ person engineering and environmental consulting firm with over 50 years of experience delivering innovative engineering solutions. Through engineering expertise and broad, deep knowledge of regulatory processes, we are transforming ideas into reality[®] with solutions that make a real difference to our clients.

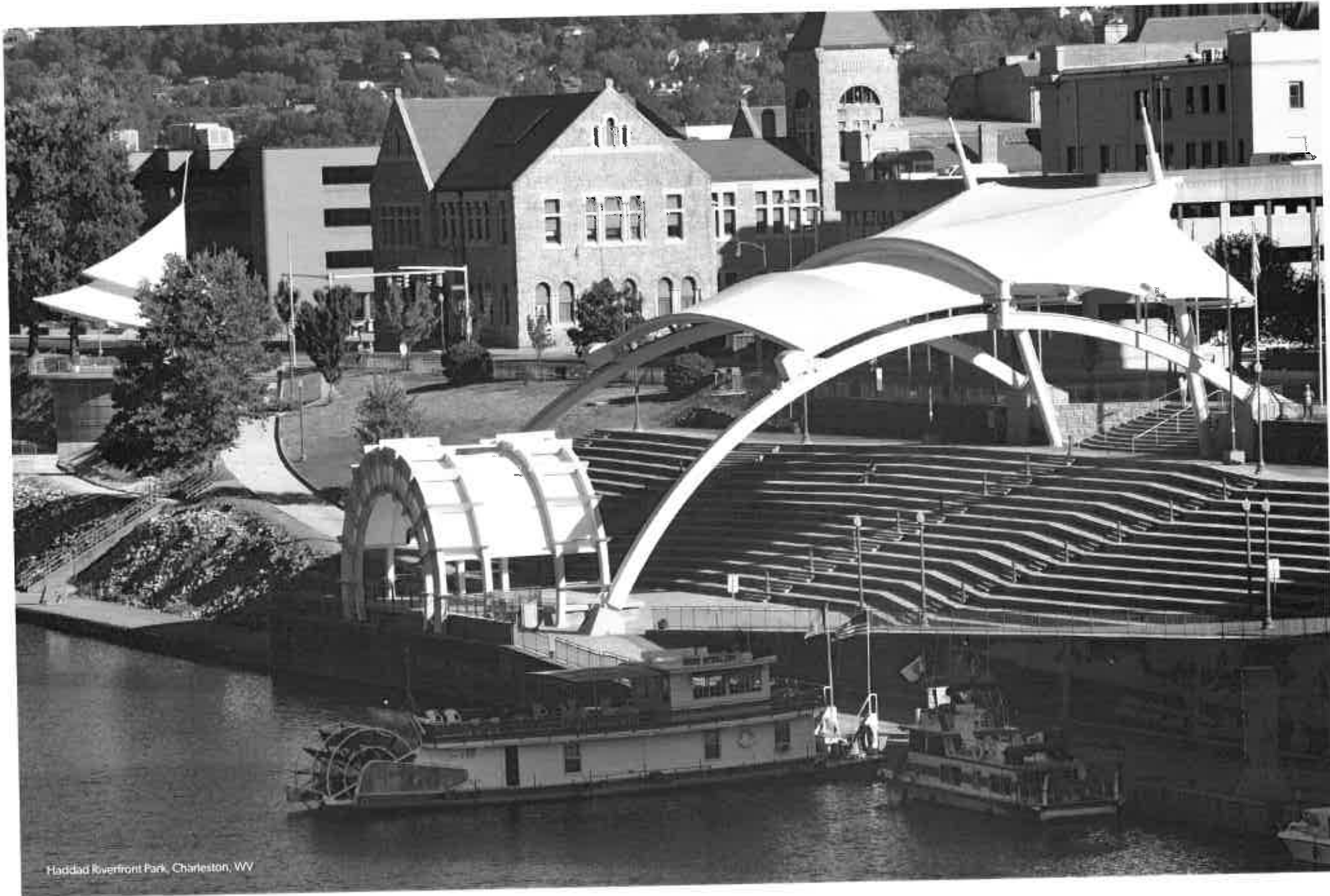
With an award-winning and respected professional reputation in multiple engineering, environmental, and technical practice areas, GAI distinguishes itself by our solid reputation of providing excellent customer service along with innovative yet practical solutions.

Our work in the following disciplines provides innovative and cost-saving solutions for clients in municipal, as well as energy, transportation, water, government, real estate, and industry.

Adding Value

- Government engineering and design services
- Real estate and economic advisory services
- Land development and landscape architecture
- Environmental engineering and studies
- Transportation planning and design
- Cultural resources management
- Geotechnical and structural engineering
- Transmission line engineering
- Surveying/GIS/GPS
- Mechanical and electrical engineering
- Construction management, inspection, and testing
- Water resources and wastewater management
- Utility management consulting
- LEED engineering and planning
- Design-build delivery system





Haddad Riverfront Park, Charleston, WV



Office Locations

GAI's strategic location to the Charleston community places it within reach of multiple GAI offices that can provide capabilities, expertise, and support throughout the duration of the project.

The GAI office location and point of contact that will directly administer this contract is:

GAI – Charleston, WV

R. Todd Schoolcraft, PLA, ASLA, LEED GA

Project Manager

300 Summers St., Suite 1100

Charleston, WV 25301

D 681.245.8878

T 304.926.8100

F 304.926.8180

r.schoolcraft@gaiconsultants.com

www.gaiconsultants.com/communitysolutions



Project Approach

Todd Schoolcraft, with whom Colonel Dean and most of the project managers at the C&FMO are familiar with, will lead the design process for this project. Todd brings a history of work on parking lots, military installations, and DoD/ NGB projects, including the Benedum Airport FWAATS Parking Lot Expansion and ADA Accessibility Upgrades, and the Robert E. Rooney Sterile Storage Yard and Final Rinse Facility, Port Ash Shuaybah, Kuwait. Both projects include parking area improvements, and a storage facility, integrating site grading and drainage, site security and lighting, and both projects involve the multi-disciplinary integration of various in-house professionals that we refer to as Integrated Site Design.

Site Design

Our team has reviewed the detailed scope of work described in the RFQ. The proposed use area identified appears to be a well-founded location that should carry cleanly into phase one build-out with little difficulty. We are considering the opportunities and constraints of the site, however, depending on how much additional parking is planned, some earthwork may be necessary along the back edge of the parking area. It is anticipated that the existing grade behind the parking area may require sloping back, and our team will find a reasonable balance between the amount of earthwork required (and the goal would be to balance cut and fill), and creating a slope that is gentle enough for ease of maintenance (up to a 4:1 slope is mowable), yet stable enough for the existing soil type. We understand the need to incorporate a new storage building into the project site, which will dovetail nicely with proposed parking area improvements. One option would be to utilize a prefabricated storage building, preparing the site prior to delivery, then placing the structure on the prepared site adjacent to the proposed parking area. We could then soften the structure, or "camouflage" the building to some degree with shade trees and landscaping for aesthetic purposes.

The graphic on the following page depicts a potential concept solution to your parking and storage needs for the JFHQ facility. In aerial oblique perspective, the proposed sketch shows two entry-egress points, a sidewalk connecting the parking area to the existing JFHQ parking area, as well as a storage facility to the east. The GAI team worked closely with the C&FMO,

WV Army National Guard to develop a design for the parking lot including the implementation of a storage building, integrating the structure into the programmed open space.

The Storage Building

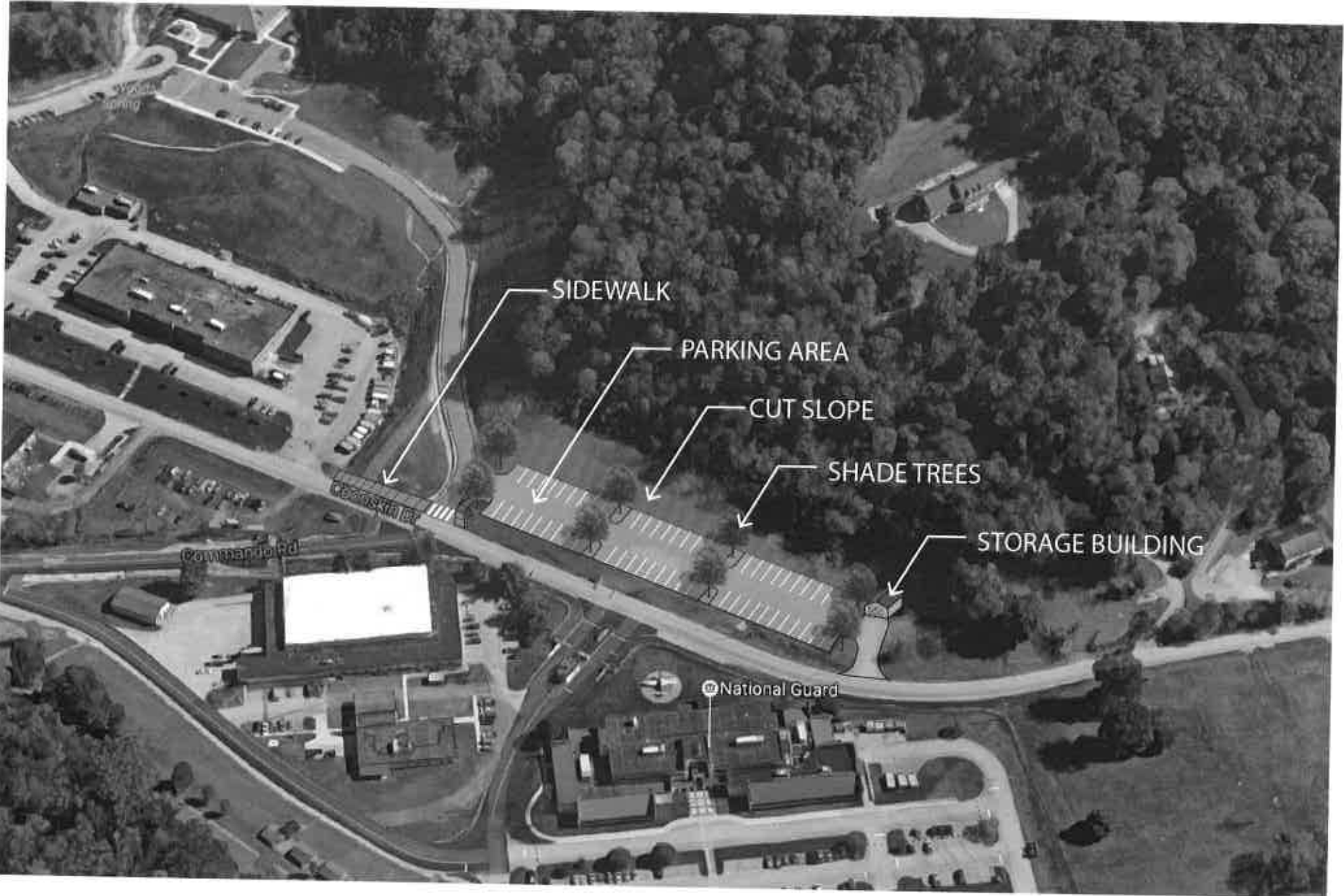


Prefabricated storage buildings have advanced tremendously from the likes of the wood kit structures often times used in residential settings. New, durable, complete, and architecturally correct structures are now commonplace, and one in-state provider carries a wide

variety of precast concrete storage buildings, and that is CARR Concrete. Some of the advantages include:

- Arrives ready to use
- Durable
- Easy to install
- Factory built
- Low maintenance
- Meets ADA standards
- Relocatable
- Secure
- Stronger than kits
- Vandal resistant
- Visually appealing
- Weather resistant
- 10-year warranty

Sizes range from the small 6'-0" by 10'-0" to the larger, double-door model that is 11'-6" by 20'-6". The buildings are also available in a variety of colors and finishes. Built of durable reinforced concrete right here in Parkersburg, West Virginia, they are close enough to allow us to visit the facility and view the various models, and also close enough to minimize shipping times and costs.





Sustainability Objectives and Stormwater Design

Our team's prior collaborations on similar parking lot and infrastructure improvement initiatives has led to an integrated approach to sustainable design. At the macro scale, we recognize that the development of a new parking lot and storage facility adds to the amenities of the Joint Forces Headquarters building, and the overall Coonskin facility, yet adds to an increase in potential stormwater runoff as well as the need for additional pedestrian amenities. A sustainable objective can be met through the site's construction, collection and treatment of stormwater runoff, and the reintroduction of shade trees and landscaping in the developed area.

Our team will identify opportunities and make recommendations based on minimizing the impact to construction costs. It is our intention to include as many sustainable components as feasible: porous paving, bio-swales / retention areas, rain gardens with indigenous landscaping, solar lighting fixtures, in concert with Xeriscaping, and other elements that will convey the West Virginia National Guard's dedication to environmentally-friendly design.





In our work for the West Virginia Division of Highways (WVDOT) on the Kanawha Boulevard Bicycle and Pedestrian Trail Improvements, visible sustainable elements were a prominent project feature. Bio-retention cells built into the greenway along the trail will help contain stormwater runoff and minimize erosion and sediment control issues all along the Kanawha River, while reducing the need for costly traditional stormwater improvements such as drain inlets, manholes and storm pipe. We believe these types of installations can be a real-time cost-saving tool.

Porous asphalt and pervious concrete have been used in a number of locations across WV, including Pennsboro and Cedar Grove (as shown in the previous pictures)

GAI appreciates the challenges that exist at the JFHQ site today. While bioswales will perform a much needed water quality function, as well as serve as an extremely visible opportunity for public education and appreciation, the major stormwater challenge for this corridor will be quantifying and then carefully tapping into the existing large stormwater pipe passing through the project area along Coonskin Drive, eventually flowing into Coonskin Branch.

As is often said, “The devil is in the details”, and with Todd Schoolcraft as your Project Manager, he will bring a history of indepth knowledge and experience to the project team that may be unmatched. Mr. Schoolcraft was the Resident Inspector of the original Guard Force 2000 expansion of the former 130th TAG, WVANG, which included the installation of the 36” to 42” HDPE stormline along Coonskin Drive. Any new, conventional stormwater improvements proposed in the parking area and storage area will require tie-in into this existing stormline.



Proposed JFHQ Parking and Storage Area site, with existing HDPE main storm sewer pipe shown in front of the project site along Coonskin Drive



Lighting

Our design process will include area lighting for the parking area and the storage building. We see great potential in lighting the proposed site with LED lighting to improve safety and efficiency. Also, we recognize the need to select fixtures and place them in locations that the Coonskin Armory Facilities Manager can access and maintain. It is our intention to make fixture recommendations to your C&FMO team and select them together to ensure they are consistent and compatible with your current inventory.

In our past collaborations, our team has developed lighting schemes that are economical and impactful. Downtown Charleston's Slack Plaza and Brawley Walkway lighting package includes pedestrian-scaled fixtures and wall-mounted units to highlight and lead users along the corridor. In addition to their function, they are recognizable from various viewpoints. Their presence from the Town Center Mall clearly demarks the path, further promoting the corridor and its neighborhood connections. We believe that lighting can serve multiple purposes—increase safety / security, as landscaping accents, and as a strong wayfinding element.

.....
*Enhanced nighttime experience at the
 Downtown Brawley Walkway using lighting (pictured left)*

Cost Estimating

GAI has extensive experience in cost estimating parking area developments, utility and infrastructure upgrades, and prefabricated building projects of varying scales and finishes. Though essentially a parking lot project, much of this work is similar to site-civil construction estimating, a specialty of Todd Schoolcraft, who's qualifications include WVDOT Certifications in Asphalt Paving and Concrete Testing. Our team will be using past projects' bid history, consultation with fabricators and contractors, and detailed estimates (crew size, material, equipment, hour-estimates) for proposed specialty items to

provide accurate estimates for the Project. GAI works regularly with a variety of contractors, through design-build projects and design-bid-build projects, and we can tap into discipline specialists throughout the company as needed to solicit a myriad of historical cost data and expertise.

Another method GAI utilizes to control construction costs and ensure a construction contract is awarded the first time a project advertises for bids, is unit costs and additive and deductive alternates. From our recent successful bidding of the Brawley Walkway (currently in construction) and the Helios Park Improvements (currently in construction) we have the most current, applicable unit costs at our disposal for the purposes of estimating the JFHQ Parking and Storage Facility.

Construction Monitoring

With GAI's office location in the BB&T Building on Summers Street in Charleston, GAI can be available on-call and at the site in 10 minutes, or less. And with Mr. Schoolcraft living in very close proximity to the project site in nearby Pinch, the convenience of him stopping by the site on his way to work in the mornings, or back home in the evenings, will aid in keeping construction administration costs in check. In addition to construction administration services, GAI does offer full-time resident inspection services if the project scope warrants such oversight. GAI also has the latest materials testing equipment necessary to monitor and test soils compaction, asphalt compaction, concrete slump testing, pressure air testing, cylinder fabrication, and other testing.



Citibank Multi-modal Transit Facility, Fort Wayne, IN



Engineering | Civil

Firm Experience and Practice Concentration
Individual Staff Experience



Engineering – Civil

Municipal Engineering

- Sanitary sewer design
- Water main design
- Feasibility studies, reports, and estimates
- General development coordination
- Mapping
- Development reviews
- Capital improvement program development

Construction Related Services

- Pre-construction meetings
- Contract administration
- Construction observation
- Materials testing
- Record drawings

Stormwater Management

- Comprehensive stormwater management plans
- Detention/retention facilities
- Stormwater conveyance
- Stormwater utility development
- Floodplain zoning and administration
- Ordinance development
- FEMA submittals
- Water quality analysis and design
- Environmental permits



Sanitary Sewer Evaluation and Rehabilitation (SSER)

- Sanitary sewer smoke testing
- Flow monitoring
- Dye water flooding
- CCTV of sewer main and laterals
- Home inspection
- Pilot studies
- Cured-in-place pipe lining
- Sewer relaying

Survey Services

- Preliminary/final platting
- Boundary survey
- ALTA survey
- Construction staking
- Topographic and utility surveys

Wastewater Collection/ Treatment

- Facilities planning
- Wastewater collection and treatment
- Industrial pre-treatment
- Operator training/start-up services
- Infiltration/inflow studies
- Sewer system evaluation studies
- Lift stations
- Sanitary sewer design

Water Supply/Distribution

- Master planning and systems analysis
- Water distribution and treatment
- Water booster stations
- Water supply and storage
- Rate analysis
- Hydrogeology and wells
- Water main design



Keesler Air Force Base Central Energy Plant Design Build

GAI Consultants was contracted by VOA Associates to provide assistance on a design-build project for a new Central Energy Plant (CEP) at Keesler Air Force Base. GAI was responsible for structural, civil, and landscape architecture design services for a new 15,000 s.f. CEP and first floor electrical addition. The project was awarded through the Naval Facilities Engineering Command Southeast.

The new CEP, which also supports the Keesler Medical Center, replaces existing systems and consolidates them in a facility designed and constructed to reduce the risk of hurricane damage to essential generators, electrical switchgear, transformers, chillers, boilers, and cooling towers. Flooding from Hurricane Katrina completely shut down the Keesler Medical Center when almost all of the key systems centered in basement and outside areas took on water and could not be operated until they dried. This project provides a "survivable" CEP that can withstand extreme weather events.

GAI utilized "Dr. Checks" to address comments from federal government agencies involved in the project. In addition, GAI's landscape architects developed landscape and irrigation designs for the new plant.

Lasting Benefits

GAI developed an "Early Start" package so construction could begin on the CEP foundation prior to completion of final design. Designing a "survivable" CEP ensures military personnel that critical operations will not be interrupted during extreme weather events.

LOCATION: Biloxi, Mississippi

CONSTRUCTION COST: \$20M

COMPLETION: 2008

REFERENCE:

VOA Associates, Inc.
4798 New Broad Street, Suite 100
Orlando, Florida 32814
407.425.2500

PERSONNEL: Bob Schanck, PE



Fort Campbell Military Installation

This project was executed under a \$5,000,000 – five year A&E Environmental HTRW Services Indefinite Delivery Contract with the USACE Louisville District and has included various CERCLA assessments, site inspections and remedial investigations; restoration planning; and natural and cultural resource projects in support of the District’s mission within the Great Lakes and Ohio River Division Mission boundaries. The contracts general scope of services includes performing environmental studies, designs and support for compliance issues under RCRA, CERCLA, and other federal programs, and state and local environmental laws and regulations; conducting site surveys and assessments; performing NEPA documentation; conducting natural and cultural resource surveys; performing risk assessments and fate and transport analysis; conducting surface/subsurface soil, sediment and rock sampling/testing; conducting water sampling/testing; conducting HTRW laboratory analyses; and providing engineering evaluations/cost analysis for remediation work.

This Phase I Archaeological Survey was conducted to assist Fort Campbell in the fulfillment of its Programmatic Agreement with the Advisory Council on Historic Preservation (ACHP) and the State Historic Preservation Offices (SHPO) of Kentucky and Tennessee regarding the evaluation of historic properties including archaeological resources. The goal of the project was to determine the presence or absence of archaeological sites within 788 acres of active military training grounds, within the cantonment, and near the Sabre Heliport area. Seven discrete locations were designated for archaeological survey, totaling 788 acres, which constituted the project’s Area of Potential Effect (APE). The archaeological survey was performed within the APE in accordance with Section 106 of the National Historic Preservation Act (NHPA). Background research was conducted and a Statement of Expected Finds was produced. This was followed by a pedestrian reconnaissance and geomorphology assessment of the potential for identifying deeply-buried sites. GAI and AEROSTAR personnel excavated shovel test pits (STPs) on a 20-meter grid within the seven study areas. Radial STPs were excavated around positive STPs. A few areas with good ground surface visibility were also surface collected. The study identified 77 loci that produced artifacts including 23 archaeological sites (two of which were previously recorded) and 54 isolated finds. The Phase I Archaeological Report passed through agency review quickly with no comments received from either Fort Campbell or the Kentucky Heritage Council (State Historic Preservation Office).



LOCATION: Christian County, Kentucky and Montgomery County, Tennessee

PROJECT COST: \$248,000

COMPLETION: 2010

REFERENCE:

Aerostar Environmental Services, Inc.
for USACE Louisville District
Philip Elson
11181 St Johns Industrial Pkwy N
Jacksonville, Florida 32246
904.565.2820

PERSONNEL: Ben Resnick, MA, RPA, MBA



Greensburg National Guard Readiness Center

The project consisted of renovations and a minor addition to the National Guard Readiness Center in Greensburg, PA. GAI Consultants provided a structural evaluation of the existing building to include several lintels, construction specifications review, foundation and structural details, and steel shop drawing review during construction.

LOCATION: Greensburg, Pennsylvania

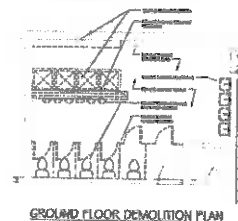
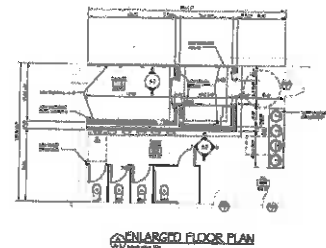
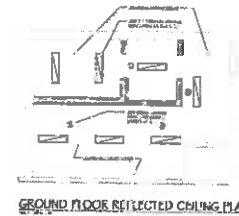
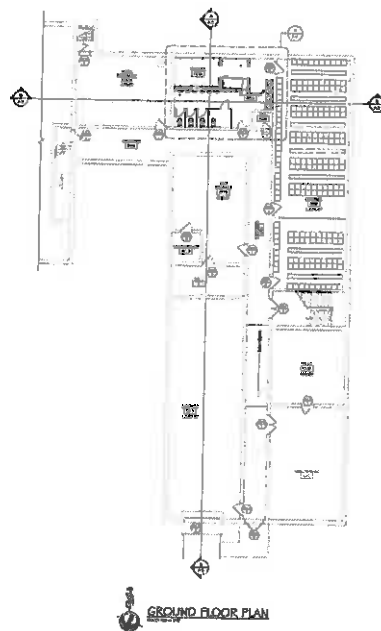
PROJECT COST: \$5,000

COMPLETION: 2013

REFERENCE:

KTH Architects
Jerry Bankovich
1741 Kiwanis Trail
Dubois, Pennsylvania 15801
(814) 371-1541

PERSONNEL: Scott Kunselman, PE





Nathan J. Goff Armory, Clarksburg, Harrison County



Brushfork Armory, Bluefield, Mercer County



Weston Armory, Weston, Lewis County

West Virginia Army National Guard Historic Research Survey

GAI Consultants completed an architectural and historical resource survey report for the West Virginia Army National Guard (WVARNG) in April of 2012. The survey involved documentation of six West Virginia Army National Guard Armories (Nathan J. Goff, Harrison County, Cecil H. Underwood, Mercer County/Brushfork, Weston, Jonah E. Kelley, and L.M. Gatens) constructed between 1958 and 1964 in Doddridge, Lewis, Kanawha, Mercer, and Mineral Counties. During field survey, each armory was photographed using a high resolution camera, field notes were taken to document architectural elements, and the armories were marked on a USGS map. West Virginia Historic Property Inventory Forms (WVHPI), including detailed site plans and descriptions of the resources, were completed for each armory and included with the report. A historic context was also completed for the report, and background research was conducted at the West Virginia and Regional History Collection holdings in Wise Library at West Virginia University and the West Virginia State Archives at the West Virginia Division of Culture and History in Charleston. Additionally, GAI collected information from local libraries and armory employees, where possible. GAI assessed the architectural and historic integrity of each armory.

GAI recommended that five armories are potentially eligible for the National Register of Historic Places (NRHP) under Criterion A in the areas of Community Planning and Development and Military, but not individually eligible under Criterion C. While these armories are local representatives of a unique American architectural legacy, their potential significance may be obtained not individually, but rather from the collective whole being representative of the style, period, and type. The sixth armory was recommended not eligible for the NRHP, as it exhibits numerous non-historic additions and alterations and no longer retains its historic integrity.

LOCATION: Doddridge, Lewis, Kanawha, Mercer, Harrison and Mineral Counties

PROJECT COST: \$7,400

COMPLETION: 2014

REFERENCE:

West Virginia Army National Guard
Charleston Armory
1703 Coonskin Drive
Charleston, West Virginia 25311

PERSONNEL: Eric Scuoteguazza



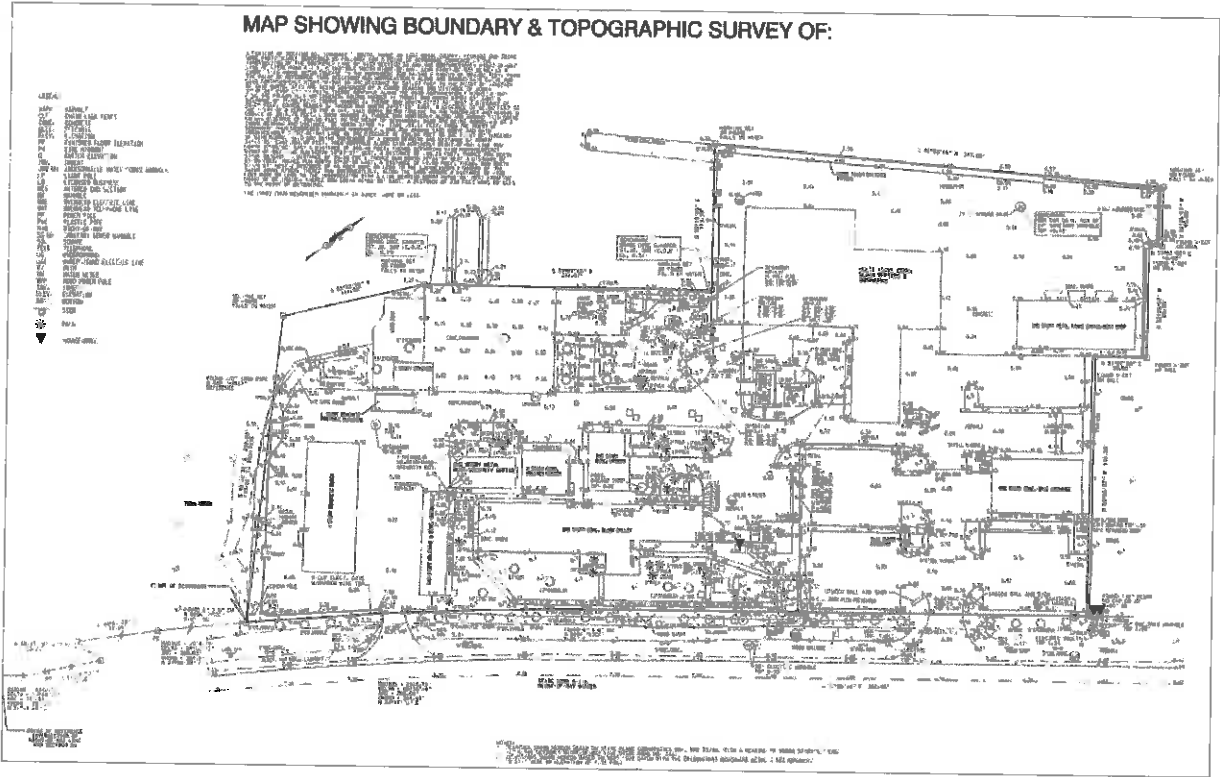
Coast Guard Station Mayport Survey

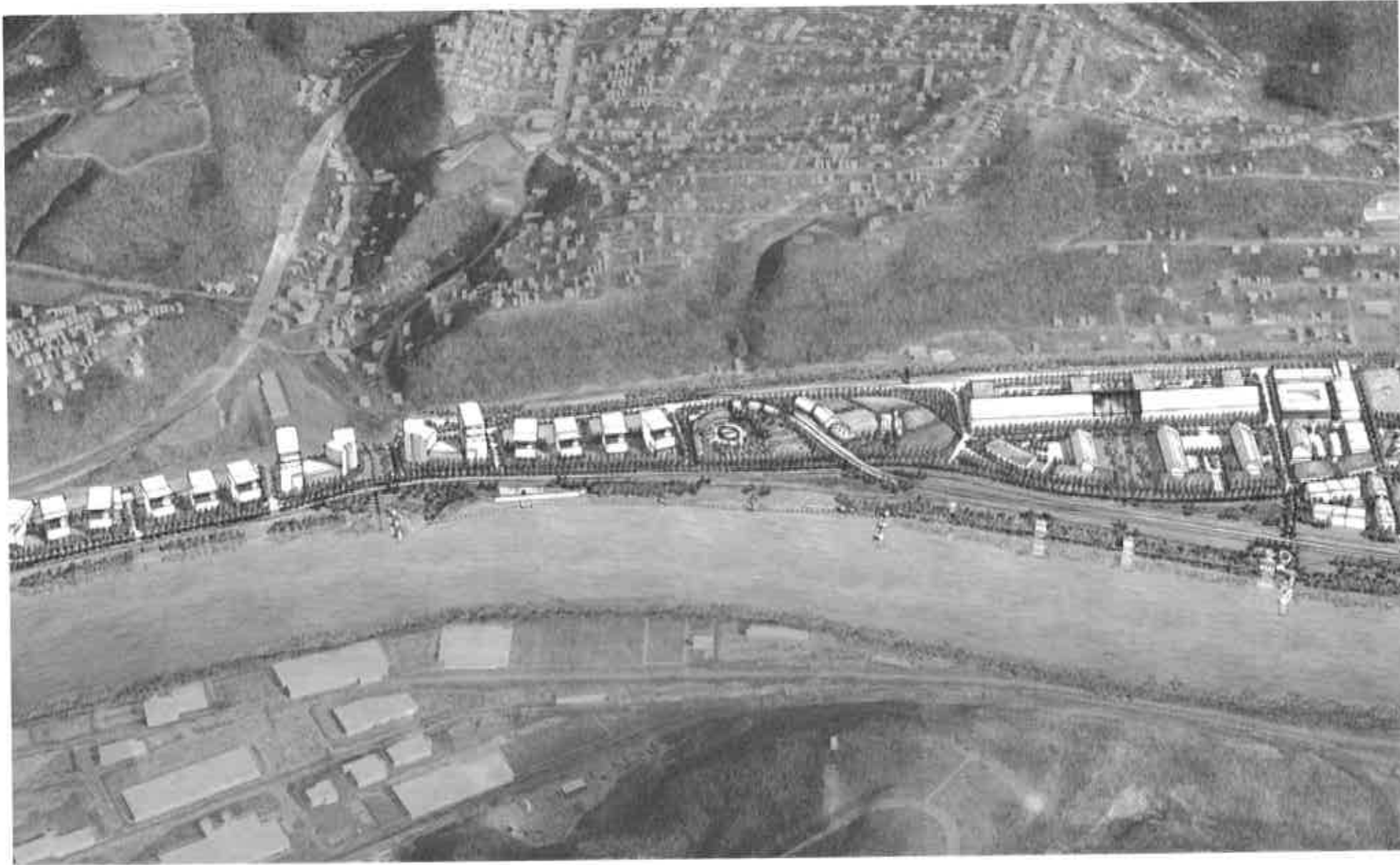
The Coast Guard Station Mayport project consisted of a complete boundary and design survey of the entire property for the purpose of adding an additional building and dock improvements. GAI Consultants performed the survey in a timely manner locating all improvements with elevations and produced CAD files for the design team. Coast Guard Station Mayport is an active port with operations for multiple sized ships. The security required to enter base required back ground checks and a safety meeting before any work could be started. The survey crews performed their work in GAI uniforms with ID badges. The improvements were designed and built a year later after our survey.

LOCATION: Mayport, Florida
 PROJECT COST: \$5,500
 COMPLETION: 2006

REFERENCE:
 Aerostar Environmental
 John Kaiser
 11181 St Johns Industrial Pkwy N
 Jacksonville, Florida 32246
 407.839.0224

PERSONNEL: Joe Lek





Almono Hazelwood Site Brownfield Development

The Almono, LP property is a 178-acre brownfield located in the Hazelwood neighborhood of the City of Pittsburgh. For many years it was the home of the LTV Hazelwood steel facility, which no longer operates on the site. Almono and the Regional Industrial Development Corporation joined to transform this site into a new, vibrant, center of technology, industry, business and, most importantly, community. GAI Consultants provided preliminary engineering studies, conducted a traffic impact study, and completed construction plans and permitting for this brownfield project.

Coordinating with both the Pennsylvania Department of Transportation and the City of Pittsburgh to obtain approvals for roadway improvements, GAI also worked closely with the design team and City Planning to rezone the site as a Special Planning (SP) District. By changing the site zoning from "general industrial" to "mixed-use," Almono and RIDC were able to develop the property in keeping with their established vision.

LOCATION: Pittsburgh, Pennsylvania

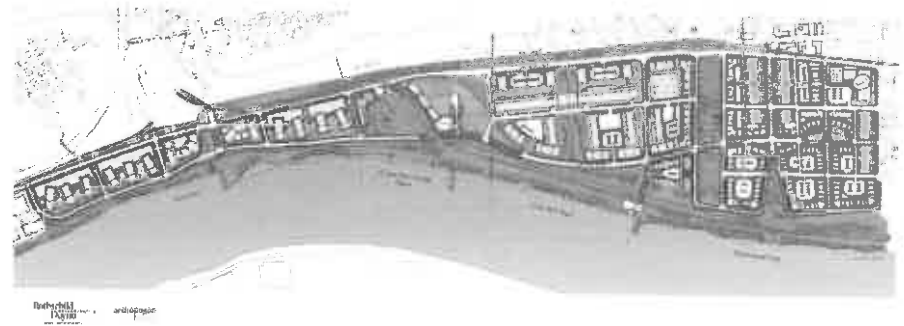
COST: Private Client

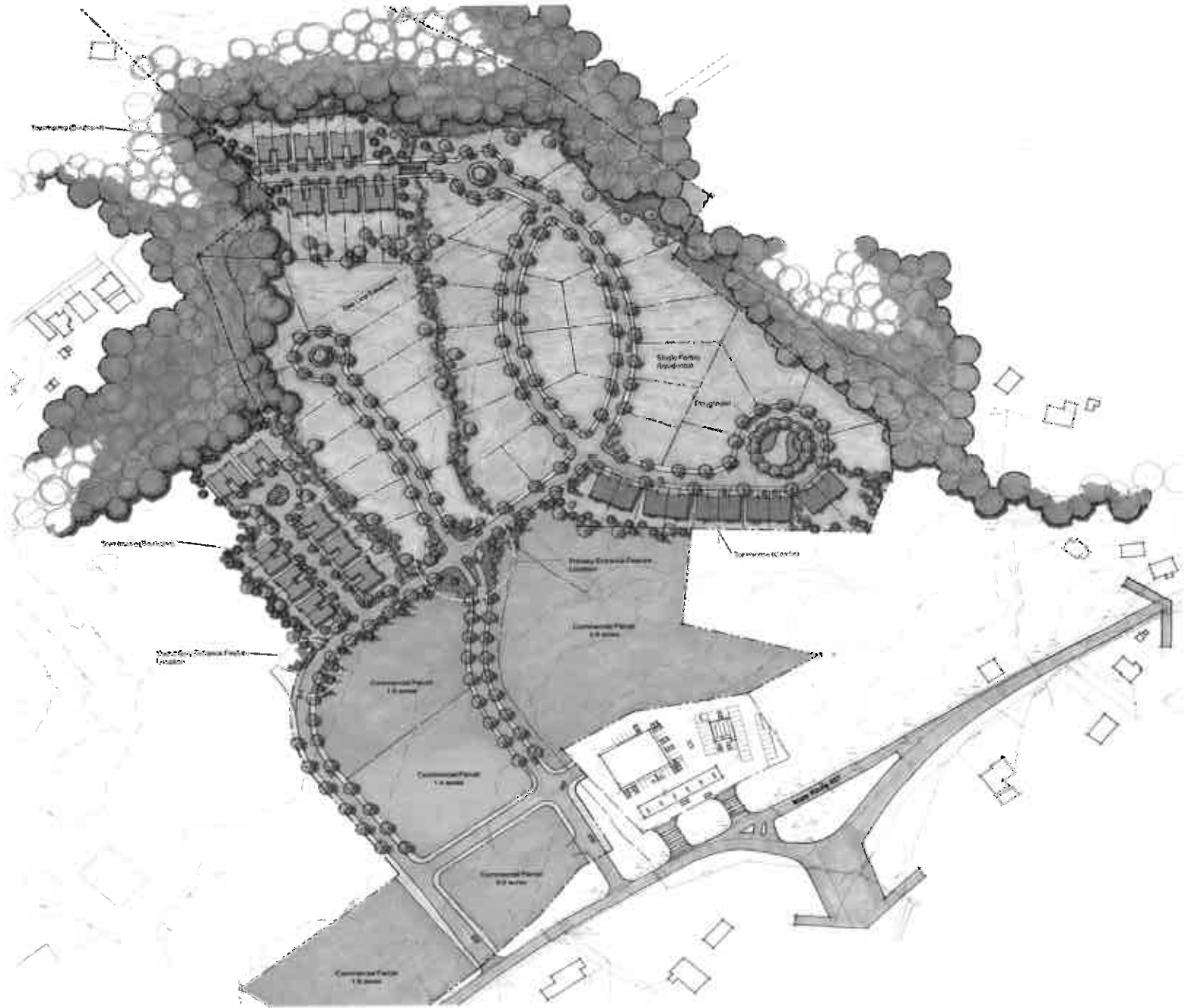
COMPLETION: 2013

REFERENCE:

Regional Industrial Development
210 Sixth Ave. Ste 3620
Pittsburgh, Pennsylvania
412.471.3939

PERSONNEL: Pat Gallagher





Cheat Landing Office Park Mixed Use Development

GAI Consultants was contracted by Blue Ridge Development to provide a land-use study and master plan drawing for a 36-acre parcel in Monongalia County, West Virginia. The development included retail, office space and mixed-use residential. The plan also included design of the way-finding signage and preliminary engineering for site development.

LOCATION: Monongalia, West Virginia

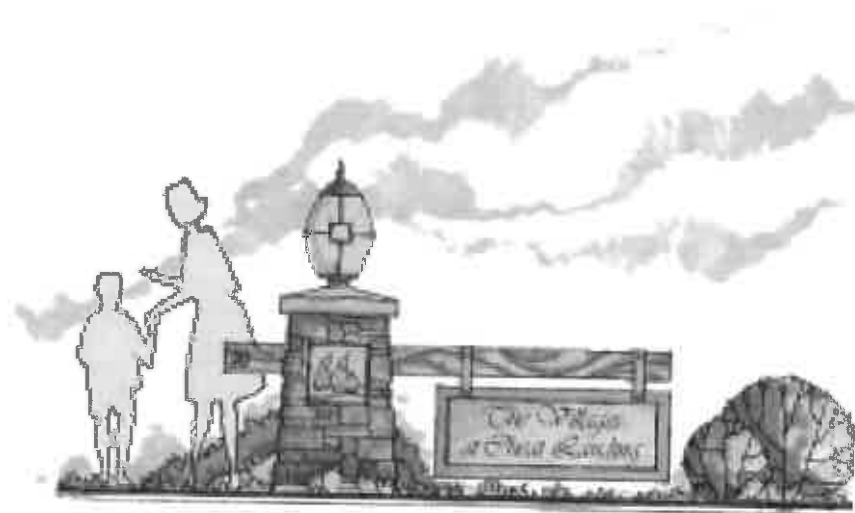
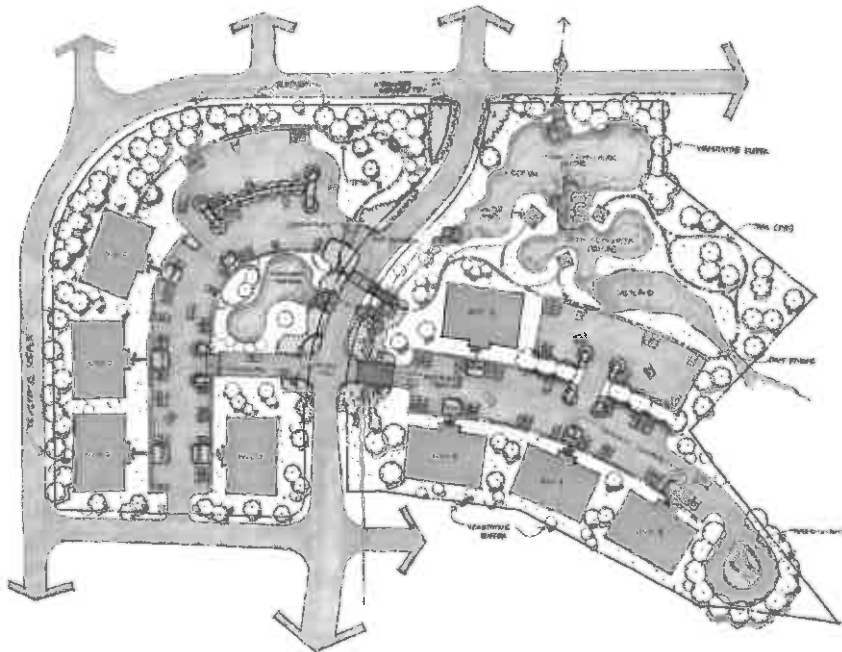
CONSTRUCTION COST: Private Client

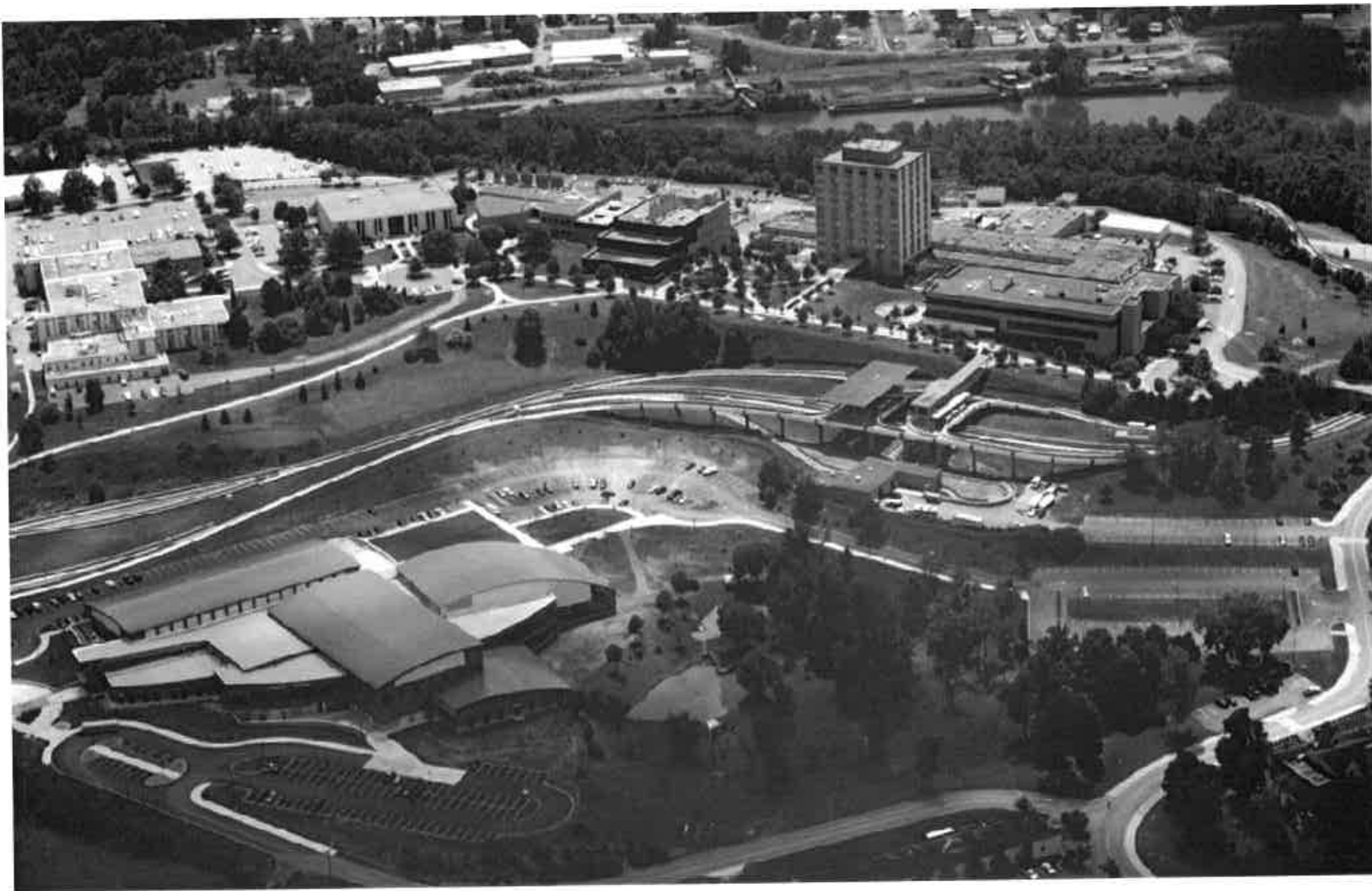
COMPLETION: 2007

REFERENCE:

Zerke Holdings LLC
108 Cambridge Place
Bridgeport, West Virginia
304.848.7014

PERSONNEL: Dave Gilmore, PLA, ASLA





WVU Evansdale Master Plan

GAI Consultants performed evaluation of storm damage, sanitary and water system infrastructure, for West Virginia University's 150-acre Evansdale Campus in Morgantown as part of the University's capital improvement program for the campus. Work included relocation design for various utilities to avoid building new facilities and upgrades to provide the additional service capacity needed for the project. The plan included design of stormwater management upgrades to control development-generated runoff and included sustainable stormwater provisions to address water quality. The work also included design of parking lot expansions to replace spaces lost due to the building construction implemented during the capital improvement program.

Value Added Innovations

Sustainable stormwater techniques and practices with an emphasis on maintenance and monitoring to ensure long-term functioning of the structures, measures, and programs recommended.

LOCATION: Morgantown, West Virginia

CONSTRUCTION COST: Ongoing

COMPLETION: 2011

REFERENCE:

Michael Stern
Strada LLC
The Ewart Building
925 Liberty Avenue
Pittsburgh, Pennsylvania
412.471.5704

PERSONNEL: James Greene, PE



Huntington East Middle School Site Design to LEED® Standards

This state-of-the-art facility combined the existing populations of Enslow Middle School and Beverly Hills Middle School. Located in the heart of both communities, the new facility houses approximately 770 students. Its contemporary design is home to a middle school curriculum layout familiar throughout Cabell County Schools. The brick façade is accented with metal panels and highlighted with large amounts of glass that provide natural light to the classrooms. A curved corridor divides the building while slowly widening and developing into the art room. The art room showcases a large window introducing natural light into the room and the corridor. The curved façade along the corridor is emphasized with copper-finished metal panels.

Cabell County Schools is currently pursuing the first LEED® Silver Certified middle school in Cabell County. The building and curriculum boasts of 6th, 7th, and 8th grade teams that will compete against each other in energy consumption and are able to track through technology energy usage throughout the year. Through online learning and technology systems throughout the facility, students are also able to work with and compete with facilities throughout the world.

The building itself is a teaching tool. A pulper system is in place to not only consume kitchen waste, but also all paper waste throughout the school. The students are able to take this product and provide compost for the school's vegetable gardens, which will provide additional produce for the county's "farm-to-table" program

Value Added Innovations

The LEED® design features that GAI Consultants incorporated into site design included environmentally-friendly elements such as rainwater capture and the beneficial use of recycled materials. at the school. The facility includes a new gymnasium, cafeteria with a stage, art, music, band, orchestra, and science facilities that are second to none.



LOCATION: Huntington, West Virginia

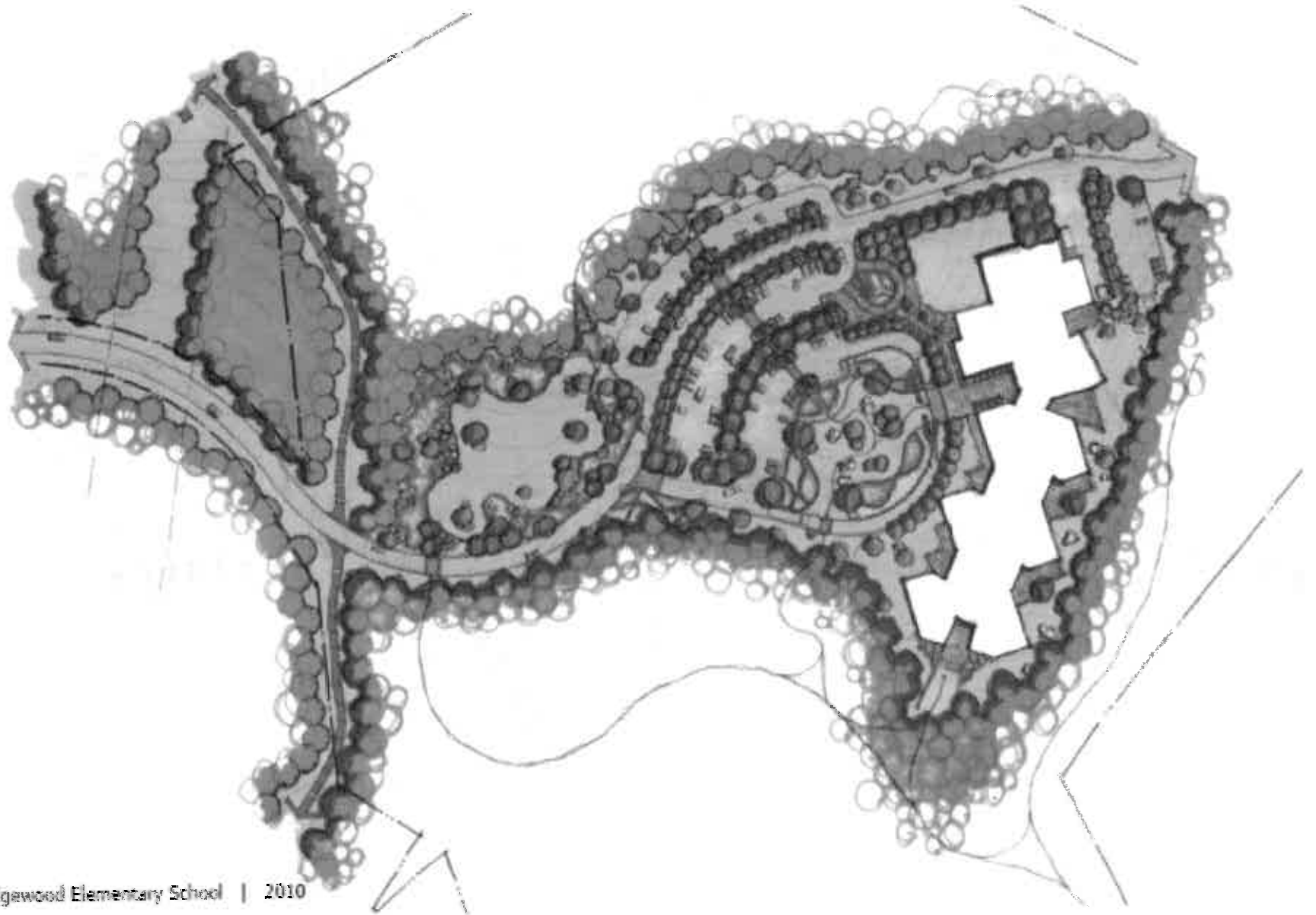
PROJECT COST: \$96,000

COMPLETION: 2011

REFERENCE:

ZMM Architects
David Ferguson, AIA
222 Lee Street West
Charleston, West Virginia 25302
304.342.0159

PERSONNEL: Dave Gilmore, PLA, ASLA



Edgewood Elementary School Access Road Design

GAI Consultants provided design and permitting for a proposed access road that would serve a new elementary school planned by Kanawha County Schools. Based on preliminary road routing, GAI performed a Phase 1 environmental survey to identify all environmentally sensitive areas. GAI mapped existing stream/wetland information and revised the proposed alignment to minimize potential environmental impacts due to road construction. Additionally, GAI worked closely with the architects to coordinate the relocation of an existing gas transmission line adjacent to the project.

LOCATION: Kanawha County, West Virginia

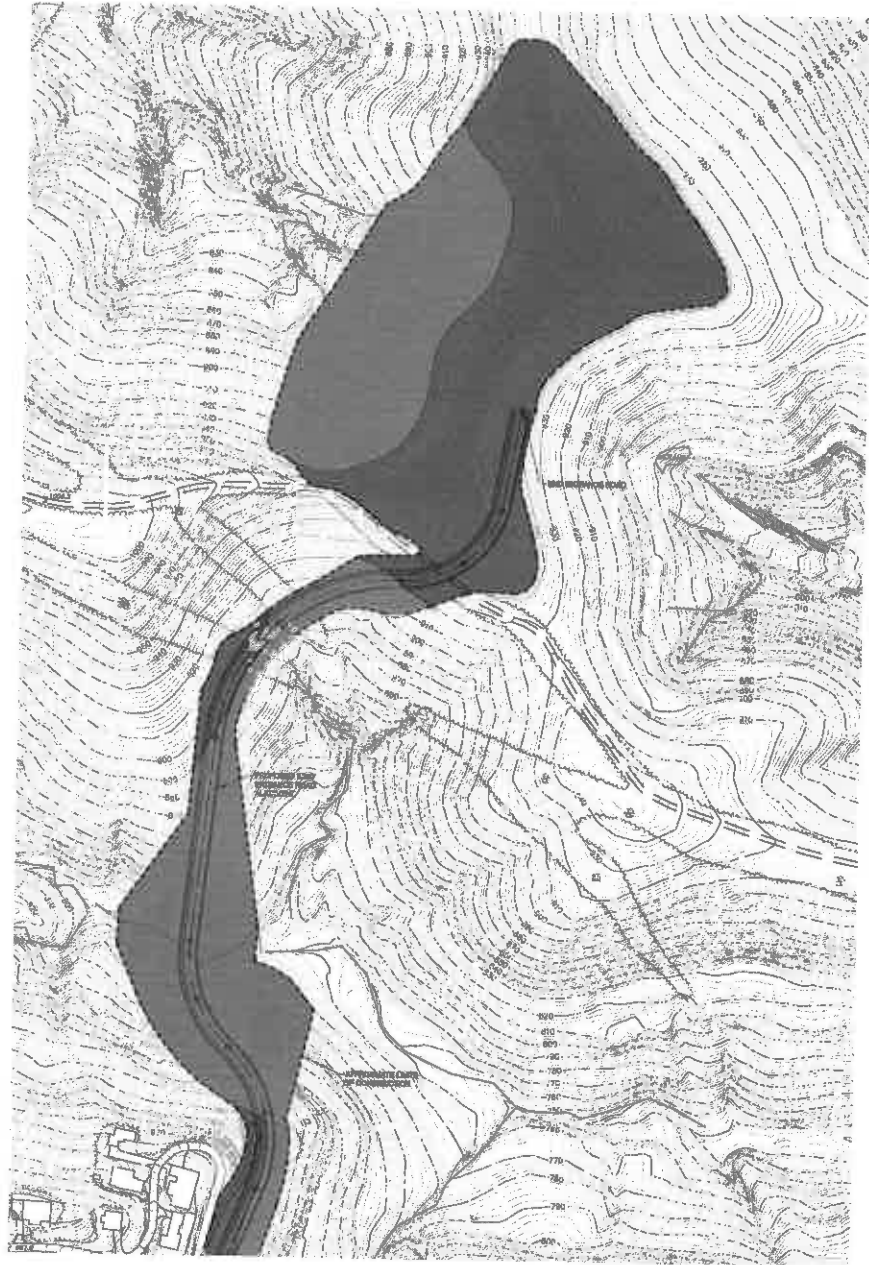
CONSTRUCTION COST: \$12 million

COMPLETION: 2011

REFERENCE:

ZMM Architects
Adam Krason, AIA
222 Lee Street West
Charleston, West Virginia
304.342.0159

PERSONNEL: Dave Gilmore, PLA, ASLA







North Shore Place I and II Office/Retail Building Site

GAI Consultants was involved in the design and construction of two retail/office buildings situated along the Allegheny River on North Shore Drive in the City of Pittsburgh. The approximate 27,000 sq.ft. and 13,400 sq.ft. buildings were an initiative of the North Shore Place Partners, LLC working in cooperation with the Pittsburgh Pirates Major League Baseball club and the Pittsburgh Steelers professional football team.

Site development services included site and grading plans, and utility, storm and sanitary sewer designs. GAI was also responsible for developing design plans and calculations for two water quality infiltration facilities, one underground ADS facility between the buildings and one infiltration trench along the east property line. These facilities will capture roof water runoff from the buildings, and filter and cool the water before it is discharged into the Allegheny River. NPDES permitting and Pittsburgh Water and Sewer Authority permits were also required and GAI worked with the permitting agencies to obtain the proper approvals. GAI remained with the project through construction, providing construction administration services.

LOCATION: Pittsburgh, Pennsylvania

CONSTRUCTION COST: \$25 million

COMPLETION: 2014

REFERENCE:

Continental Real Estate Companies
285 E Waterfront Dr., Ste 150
Homestead, Pennsylvania
412.464.8933

PERSONNEL: Jerry Klodowski



Pennsylvania Air Guard Access Road

The Pennsylvania Department of Transportation retained GAI Consultants to provide highway and bridge design, and to generate an Erosion and Sedimentation (E&S) Control Plan for a 1.1-mile section of this six-lane, limited access expressway. Planned construction included an area to support up to eight traffic lanes and a median strip, with an area of disturbance requiring an Earth Disturbance Permit (EDP) from the Pennsylvania Department of Environmental Protection (PaDEP), Bureau of Soil and Water Conservation. The E&S Control Plan included the design of two large sedimentation ponds, six sediment traps, 10 energy dissipaters, 15 temporary channels with lining, four major stream relocations with riprap or concrete channeling, several thousand feet of filter fence, and other control devices. Section 15 of SR 6060 was the first of five total sections of the Southern Expressway to receive EDP approval.

As part of Section 15, GAI designed the McClaren Road Interchange, providing access from the expressway to the Pennsylvania Air National Guard (PANG) base adjacent to Pittsburgh International Airport. GAI also developed the Findlay Maintenance Facility, providing a model for future maintenance facilities. The Findlay facility is situated at the three-acre waste fill infield area of the McClaren Road loop ramp interchange, and required 1,000 feet of sanitary sewer lateral and camouflage fencing.

LOCATION: Allegheny County,
Pennsylvania

CONSTRUCTION COST: \$25 million

COMPLETION: 1991

REFERENCE:

Pennsylvania Department of
Transportation, District 11-0
45 Thoms Run Road
Bridgeville, Pennsylvania 15017
412.429.5000

PERSONNEL: Bob Schanck, PE



PATRICK GALLAGHER, MBA

Corporate Real Estate Market Leader

Mr. Gallagher is the office manager of GAI's Southpointe, Pennsylvania office as well as the head of GAI's Corporate Real Estate Development Market Sector for GAI's 25 corporate offices. Mr. Gallagher is also the NE Real Estate/ Municipal Market Sector Manager and is in charge of the day-to-day operations, profitability, and business development for this market sector. He specializes in managing and directing the GAI staff for completion of residential, commercial, and industrial infrastructure projects including designing roadways, earthworks, sanitary and storm sewers, waterlines, and utilities, public presentations, and local, state, and federal permits. He has extensive experience in preparing preliminary and final subdivision plans for presentation to municipal and public agencies for approval. Mr. Gallagher has overseen as well as designed horizontal locations and vertical elevations for local, collector, arterial and highway roadway projects, and has prepared stormwater management plan reports, Erosion and Sedimentation (E&S) Control Plans, and permits for erosion and sedimentation control, National Pollutant Discharge Elimination System (NPDES), general BDWM-GP permits, Chapter 105/404 joint permits, sewage facilities planning modules, and highway occupancy permits.

- University of Pittsburgh Medical Center (UPMC) East located in Monroeville, Pennsylvania. A 425,000 s.f. hospital on 17 acres including demolition of the Palace Inn Hotel. Project Manager responsible for the project.
- 51st Street Business Center in Pittsburgh, Allegheny County, Pennsylvania for The Rubinoff Company. Site development project for two 53,080 s.f. flex buildings and parking lots on 9+ acres requiring a Pennsylvania Department of Environmental Protection (PADEP) temporary discharge authorization for an Act 2 site. Project designer responsible for overseeing the project and designing two 53,080 s.f. buildings, site grading, parking lots, storm sewer, sanitary sewer, waterline, utilities, erosion and sedimentation control, and Pittsburgh Water and Sewer Authority (PWSA) sewage facilities planning module.
- Northshore Riverfront Park along the Allegheny River in Pittsburgh, Pennsylvania Civil engineering and permitting project for a park along the river in the City of Pittsburgh requiring design to renovate the existing Korean War Memorial monument. Project designer responsible for the project, including design of a proposed waterline and electric utility (subconsultant), grading and utility coordination and design to renovate existing war monument, proposed utility design, and coordination with utility companies.

Education

- M.B.A. Point Park University, 2013
- B.S. Mathematics and Economics 1986, University of Pittsburgh

Skills

- Site Development
- Infrastructure Engineering and Design
- Stormwater Management
- Erosion and Sedimentation Control
- NPDES
- Highway Occupancy Permits
- Environmental Permitting

Education

- B.S. Civil Engineering 1999, Point Park University

Certifications/Training

- Butler County and Lawrence County Conservation Districts National Pollution Discharge Elimination System (NPDES) Phase 2 Seminar, 2003
- Pennsylvania Stormwater Management, Pennsylvania State University Housing and Research Center, 2003
- Better Stormwater Practices, Cahill Associates, 2004

Skills

- Zoning – State and Local
- Infrastructure Engineering and Design
- NPDES Permitting
- Erosion and Sedimentation Control Plans
- Stormwater Management



GERALD KLODOWSKI, JR.

Project Manager, Land Development

Mr. Klodowski specializes in state and local zoning and land development ordinances in Pennsylvania, and state and local processes for acquiring permits. He is experienced in site development, specifically conceptual and final site layout and design, site grading, earthwork calculations, utility design and infrastructure, road design, stormwater management, and Erosion and Sedimentation (E&S) control. Mr. Klodowski's permitting experience includes National Pollution Discharge Elimination System (NPDES) Phase 2 water quality permitting and Erosion and Sedimentation Control Plans and permitting. He also provides construction document preparation and coordination.

- UPMC East Side Monroeville Hospital Site Development. GAI participated in the design of a new hospital on approximately 19 acres of land in Monroeville, Pennsylvania. The site is located at the southwest corner of State Routes 48 and 22, the second busiest intersection in the state of Pennsylvania. This complex will consist of a 500-car parking garage and a 300,000 s.f. hospital comprised of inpatient services, medical offices, and facilities for emergency care, surgery, and imaging. The project is currently being designed to obtain a LEED Certification. Lead design specialist responsible for preparing construction documents, a Stormwater Management Report, and a Phase 2 Water Quality Report.
- Real Estate Development Services, Crossroads Plaza Expansion in Lower Burrell, Westmoreland County, Pennsylvania. Site development project for expansion of an existing shopping center. Lead designer responsible for construction plans, Erosion and Sedimentation (E&S) Control Plans and permitting, and stormwater management.
- Westmoreland Distribution Park II in East Huntingdon Township, Westmoreland County, Pennsylvania. GAI provided civil site roadway and utility infrastructure engineering and design, environmental engineering, and geotechnical engineering and design services for the Westmoreland Distribution Park II project. GAI also prepared a boundary survey and subdivision plan to create 11 pad-ready sites for future industrial development.
- Settler's Ridge Lifestyle Center in Allegheny County, Pennsylvania. GAI is providing site development services for construction of a 650,000 s.f. lifestyle center on a 79-acre parcel of strip-mined property in Robinson Township. Lead designer responsible for construction plans, Pennsylvania Department of Environmental Protection (PaDEP) permitting, site grading, stormwater management, National Pollutant Discharge Elimination System (NPDES) Phase II compliance, and construction administration.



JAMES GREENE, PE

Engineering Manager, Project Development

Mr. Greene specializes in civil engineering projects, and has over 30 years of experience. He has managed residential, commercial, industrial and recreational site development projects. He has completed water and sewer line designs; stormwater management and erosion control design; federal, state and local permitting; conceptual site and utility plans; master plans, construction cost estimates; hydrologic and hydraulic studies; design of water quality infiltration trenches, dry wells and infiltration basins.

Mr. Greene is a registered professional engineer in West Virginia, Pennsylvania and Ohio. He has managed numerous projects in West Virginia most notably The Highlands near Wheeling, WV for a period of twelve years from the beginning of the design, permitting and construction until 2010 with a previous firm. The Highlands is a 1,100 acre mixed use development home to Cabela's, Cabela's Distribution Center, Walmart, Target, JC Penney, Marquee Cinema and AT&T call center. Mr. Greene was instrumental in attending the design development meetings in Minnesota (Target) and Texas (JC Penney) to help secure those tenants.

Mr. Greene is active in the National Association of Industrial and Office Properties (NAIOP) and the International Council of Shopping Centers (ICSC) and has attended the ICSC Las Vegas spring convention numerous times including developing display booths to help attract tenants for his clients. Mr. Greene has also attended the ICSC Ohio/West Virginia/Western PA Idea Exchange event in Columbus, Ohio.

- Stormwater Management Detention Basin Design, Pittsburgh, Pennsylvania. Pittsburgh Air National Guard Base. Designed stormwater management detention basin for 100-acre drainage area near the Pittsburgh International Airport.
- The Highlands located in Triadelphia, West Virginia. Managed and designed master planning, conceptual site plans, earthwork analysis, final construction plans, permitting, utility design, stormwater management design of 14 basins, erosion and sedimentation control design, 3-D renderings, construction cost estimates, roadway design, surveying, bid phase services and construction phase services for an 1,100 acre Commercial and Industrial Park. Total earthwork moved approximately 15M cubic yards.
- Parking Lot Design, Clarion, Pennsylvania. Clarion University of Pennsylvania. Managed the design of a 200-space parking lot for student parking facility, including underground stormwater management facility.

Education

- B.S. Civil Engineering 1985, Pennsylvania State University

Registrations/Certifications

- Professional Engineer; Pennsylvania, No. PE [REDACTED] West Virginia, No. [REDACTED] Ohio, No. [REDACTED]

Skills

- Civil Engineering
- Conceptual Design
- Water and Sewer Design
- Stormwater Management

Education

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

Registrations/Certifications

- Professional Engineer, WV License No. [REDACTED]
- Certified Floodplain Manager (CFM)
- Troxler Nuclear Density Operator, 2001
- MSHA 8-Hour Safety Refresher, 2011
- HAZWOPER 40-Hour Safety Training, 2012

Skills

- Civil Engineering



KENNETH KINDER, PE, CFM

Assistant Engineering Manager, Energy

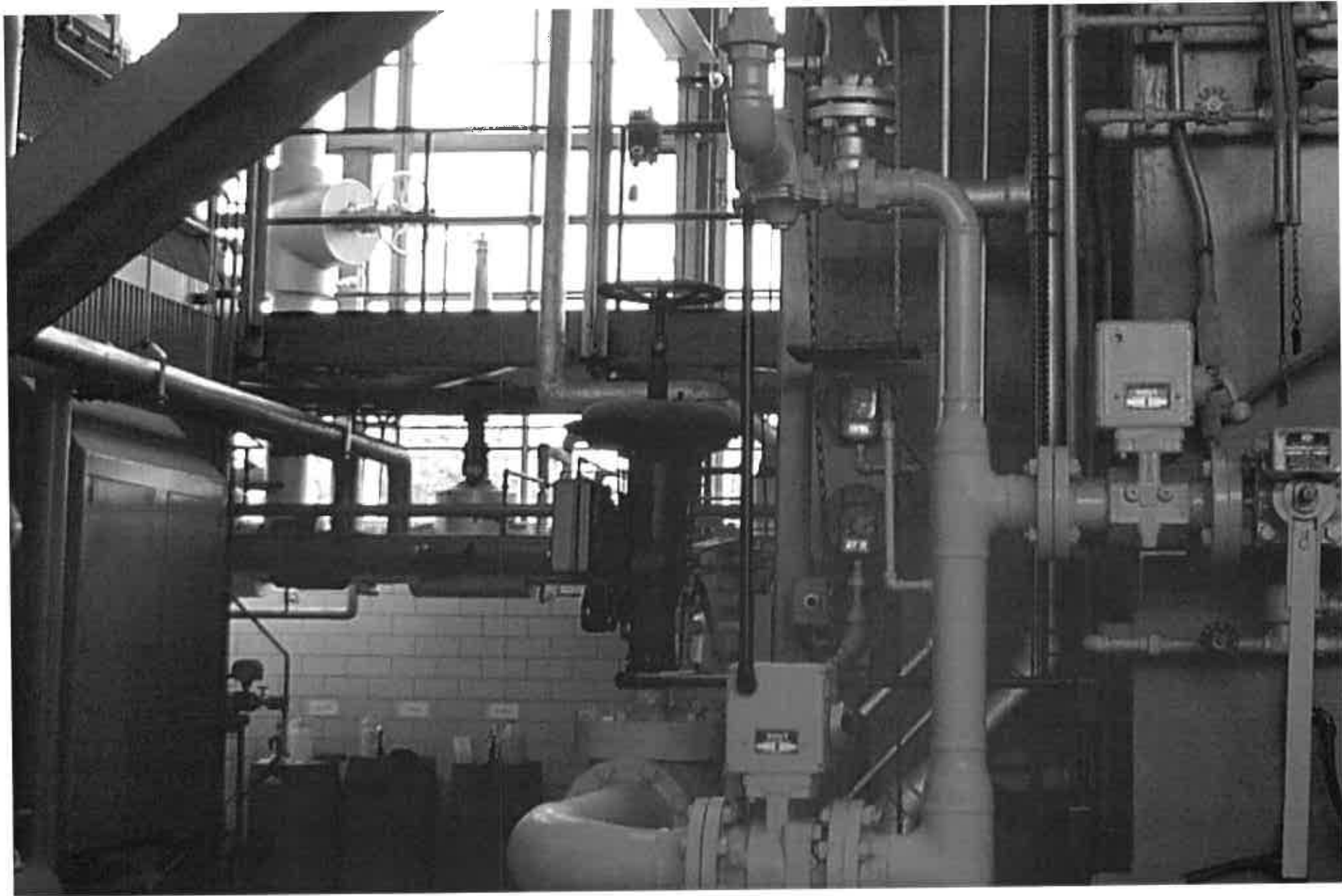
Mr. Kinder specializes in civil engineering design for civil engineering projects including civil site design, erosion and sediment control, stormwater management, hydraulic modeling, floodplain permitting, wastewater treatment, geotechnical solutions, surface and underground coal permitting, limestone quarry permitting, and solid waste landfill design.

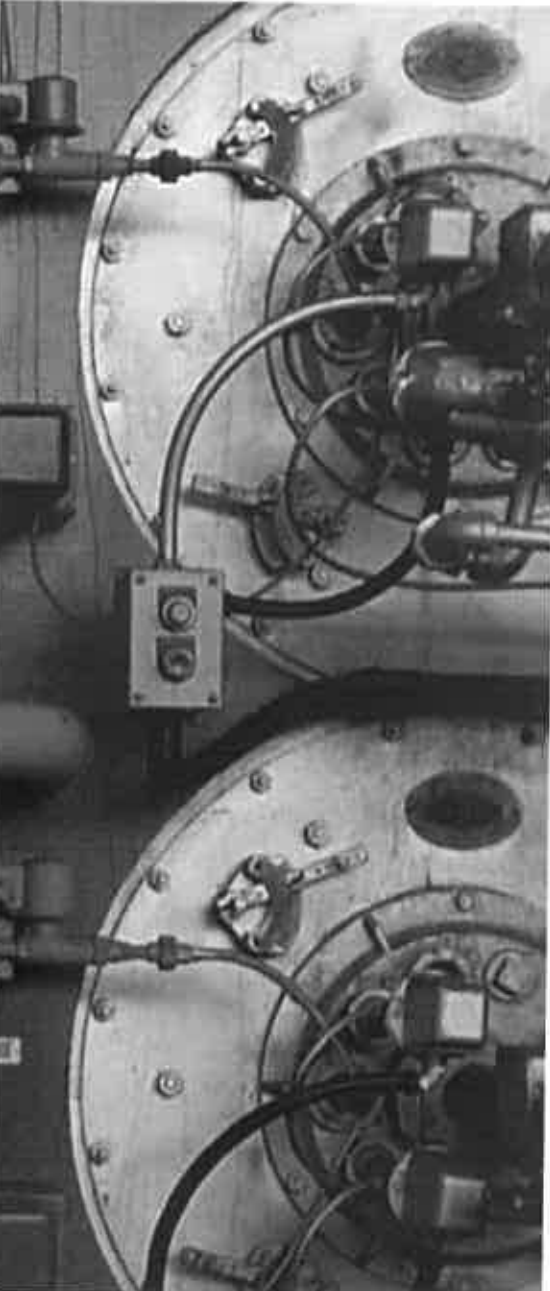
As a project manager, Mr. Kinder ensures accuracy of work, meets schedule requirements, and maintains excellent client relationships. He develops engineering calculations, prepares project drawings, generates contract documents and specifications, and completes engineering reports.

Mr. Kinder is a registered Certified Floodplain Manager (CFM) and provided services to the Kanawha County Planning Commission to complete a third party technical review of an HEC-RAS analysis submitted to the County. His software skills include AutoCAD, Flowmaster, Culvertmaster, StormCad, PondPack, SedCad, Win TR-55, HEC-HMS, and HEC-RAS.

Mr. Kinder's experience has included preparing civil site design on numerous projects. Tasks included: preparing erosion and sediment control plans, designing utility systems, site layouts and grading plans, and designing surface drainage including storm sewer systems and stormwater detention and retention ponds. Prepared permit applications for WVDEP construction stormwater permits, WVDOH MM-109 permits, and floodplain development permits as required.

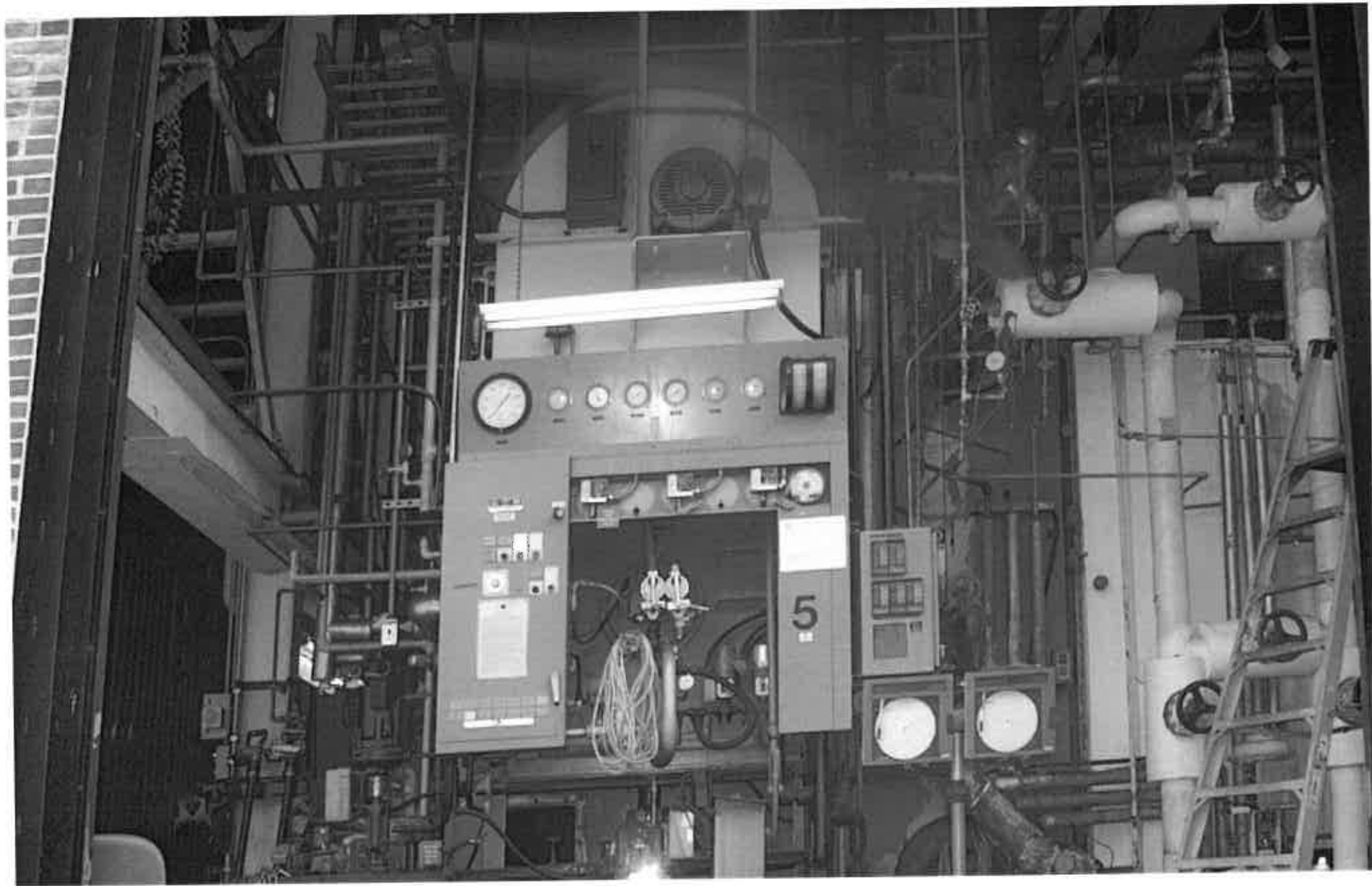
He has also worked on numerous geotechnical projects including developing boring layouts, coordinating geotechnical drilling, and using the gathered information to develop grading plans, design rock toe keys as needed for impoundments and valley fills, develop slope stability analyses, and to assist with foundation design for buildings, bridge abutments and retaining walls. Mr. Kinder has assisted with preparation of geotechnical reports, development of structural contour mapping, and preparation of subsidence control plans for underground mining.





Engineering | Mechanical, Electrical, and Plumbing

Firm Experience and Practice Concentration
Individual Staff Experience



Engineering – Mechanical, Electrical, and Plumbing

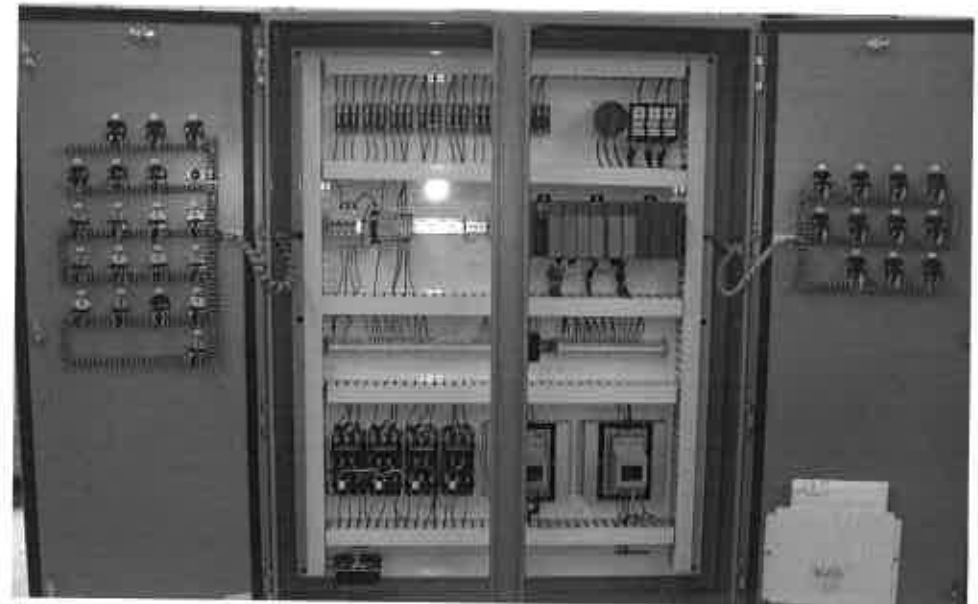
Mechanical Engineering Services

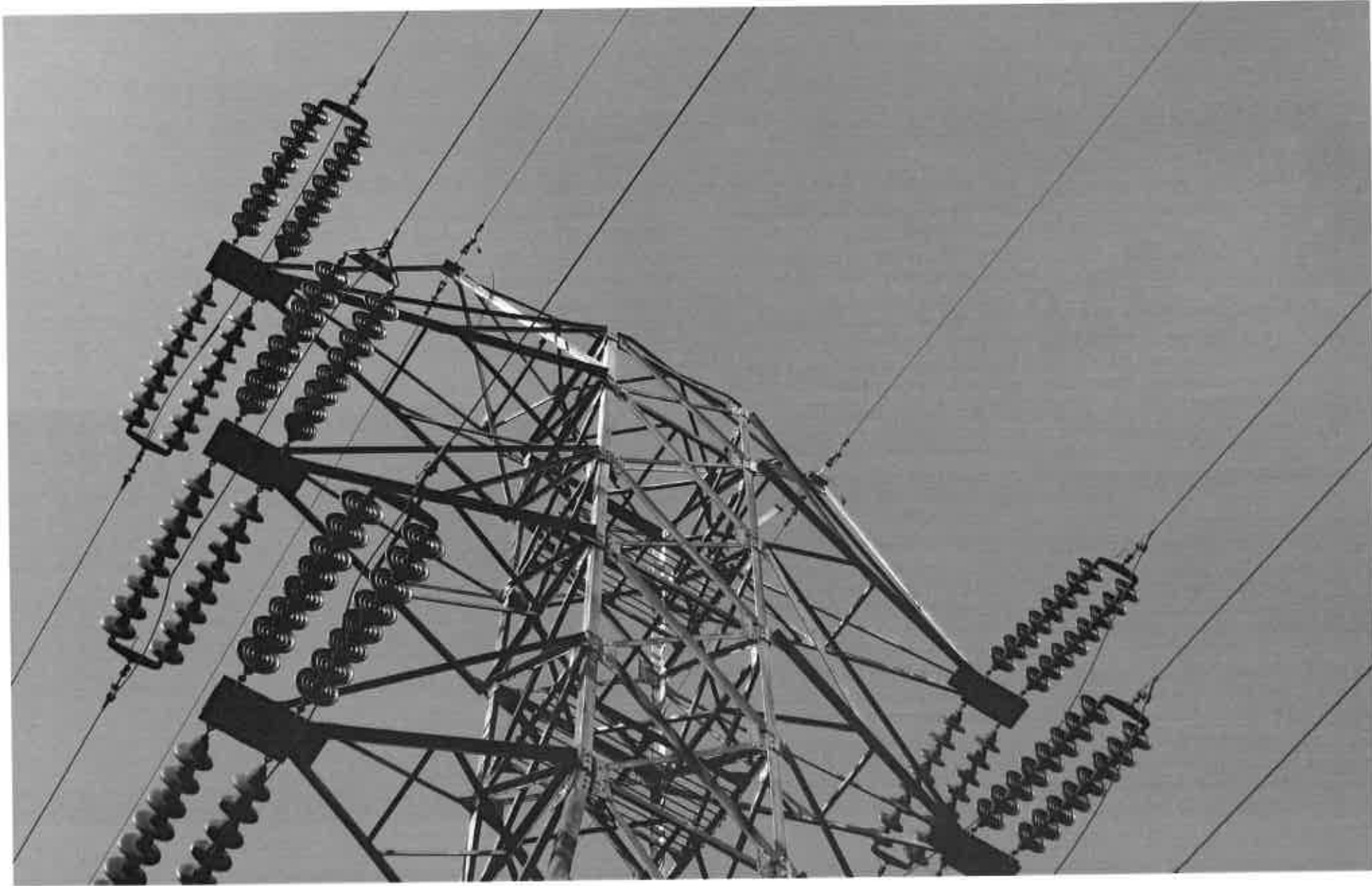
- Finite element analyses
- 3D Machine design and modeling
- Facility piping and valve mapping
- Energy conservation studies and planning
- Combustion system design and safety review
- Steam and air load analysis and system sizing
- Equipment and facility layout

Electrical Engineering Services

- Substation design, layout and equipment specification and selection for transmission, subtransmission, distribution and secondary substations
- Industrial and facility power distribution system design and analysis
- Audio and visual system design
- 3D drawing design for conduit, duct banks, and cable tray systems
- Procurement services

- Shop panel fabrication drawings and approvals
- On-site construction monitoring, inspection and management
- Arc flash hazard analysis, equipment identification and personnel training
- Industrial and facility grounding design and analysis
- Short circuit analysis with protective device coordination settings/ratings specification
- Power factor analysis with corrective mitigation design and specifications
- Emergency backup power systems
- On-site separately derived power supplies and generation including small gas turbines and diesel generators
- Motor control systems and equipment design/specification
- Small to very large uninterrupted power specification supply
- Building information system coordination for lighting, HVAC, security systems, fire alarm systems
- Lighting system design from interior building systems to facilities to highway lighting
- Copper, fiber and wireless voice, data and networking design
- Building and facilities security and access system design and specification





Electric Transmission Infrastructure Investment Project

To enhance service reliability to the communities, businesses, and homes in FirstEnergy's service area, they initiated a \$3.6 billion venture to upgrade over 7,200 circuit miles of transmission line across five states. Their goal was to replace outdated equipment with "smart" technology that could be operated remotely, helping to prevent and minimize future outages.

GAI Consultants provided environmental surveys and permitting that included Rare, Threatened, and Endangered (RTE) species coordination and surveys, orthodrawings development, and Federal Aviation Administration (FAA) and Road, Railroad, and Driveway permitting for 28 sites across Pennsylvania and Ohio.

GAI's field services include data gathering, plant surveys, and wetland and stream identification, as well as assistance with permit applications. From initial consultation on cultural resources to construction walkdowns, the GAI project team is coordinating assignments, scheduling meetings, and providing complete environmental permitting support services for the project.

LOCATION: Pennsylvania and Ohio

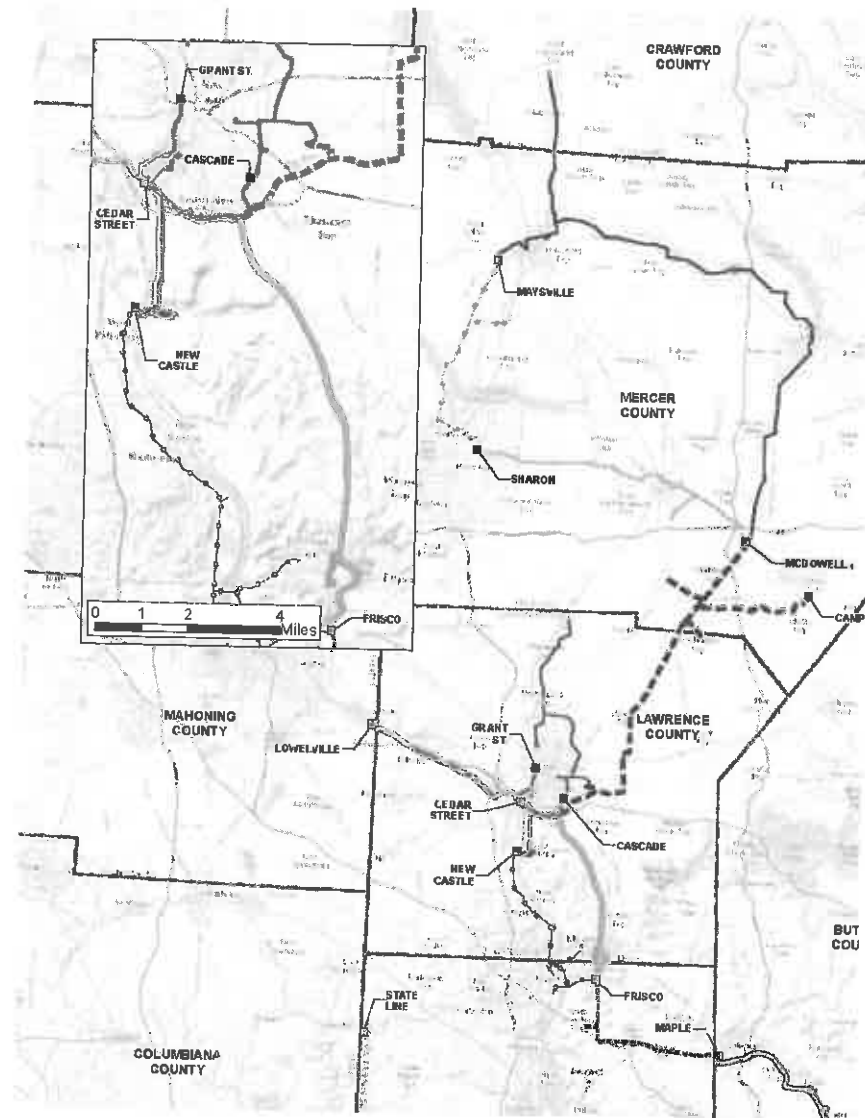
COST: \$3.6 billion

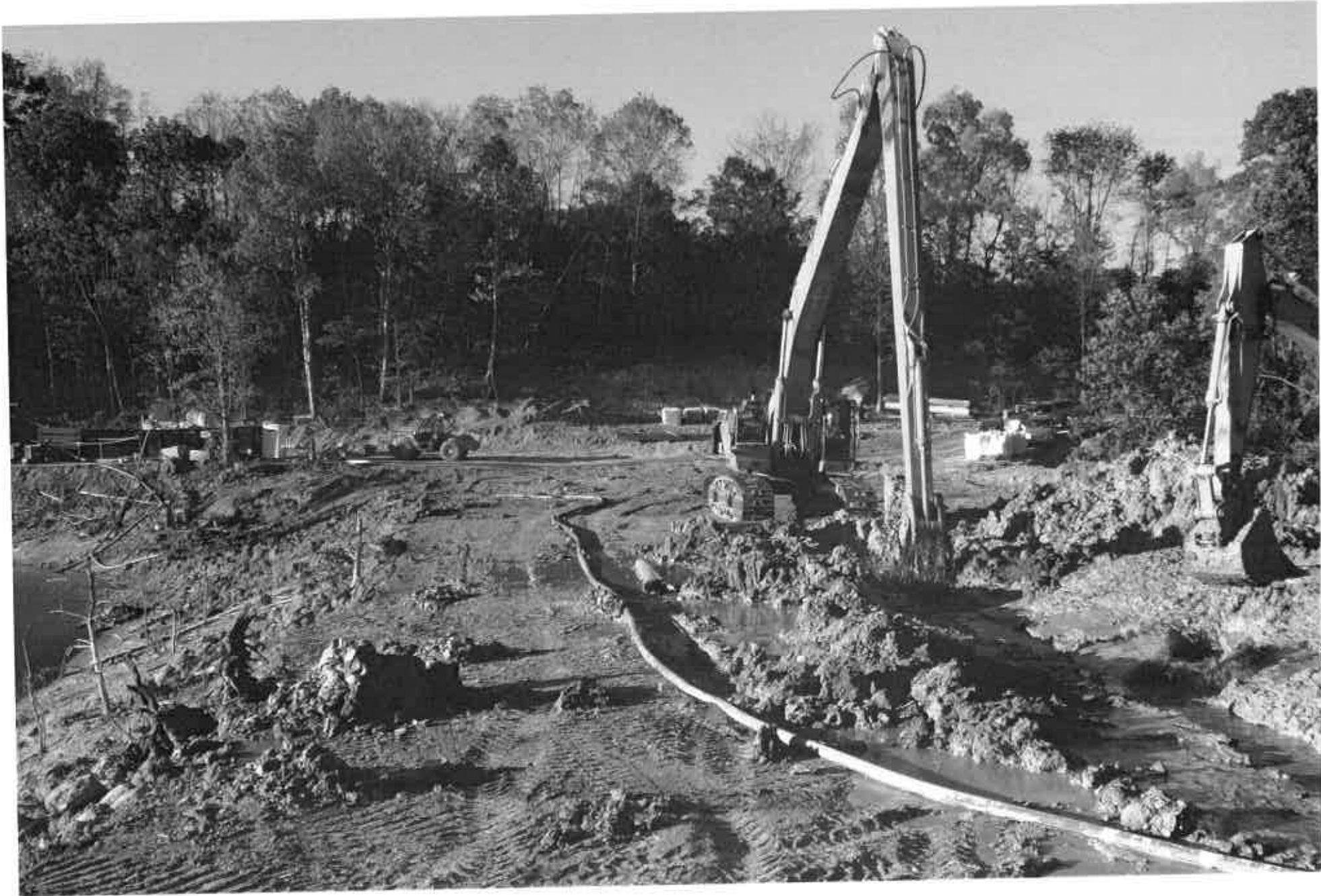
COMPLETION: 2014

REFERENCE:

FirstEnergy Corporation
 Amanda Habershaw and Ted Krauss
 76 South Main Street
 Akron, Ohio
 330.761.4268

PERSONNEL: Lisa Keck







Engineering | Geotechnical and Structural

Firm Experience and Practice Concentration
Individual Staff Experience



Engineering – Geotechnical and Structural

Geotechnical Engineering Services

- Subsurface studies and investigations
- Subsidence studies and remediation
- Geologic studies and reconnaissance
- Site characterization and undisturbed soil sampling
- Soil borrow investigations
- Foundation recommendations, design, research
- Geogrid reinforcement
- Geosynthetic materials design
- Slope stability analysis and MSE slope design
- Earth and rock retaining system design
- Soil and rock anchors
- Concrete, rock, grout, cone penetrometer testing
- Pile static and dynamic load testing
- Pile drilling inspection
- Soil bioremediation and landfarming
- Waste water disposal and agricultural utilization
- Soil improvement techniques
- Coal combustion residuals (CCRs) soil utilization
- Geoarchaeology, geomorphology, pedology

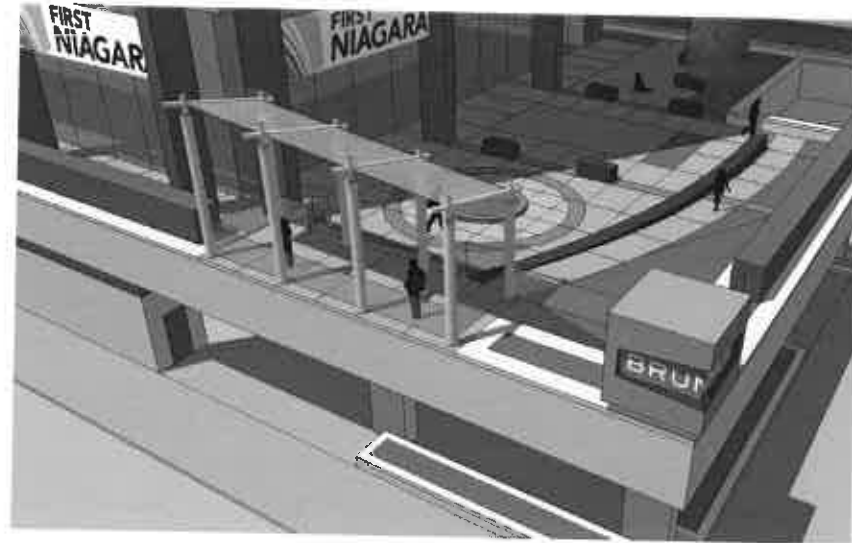
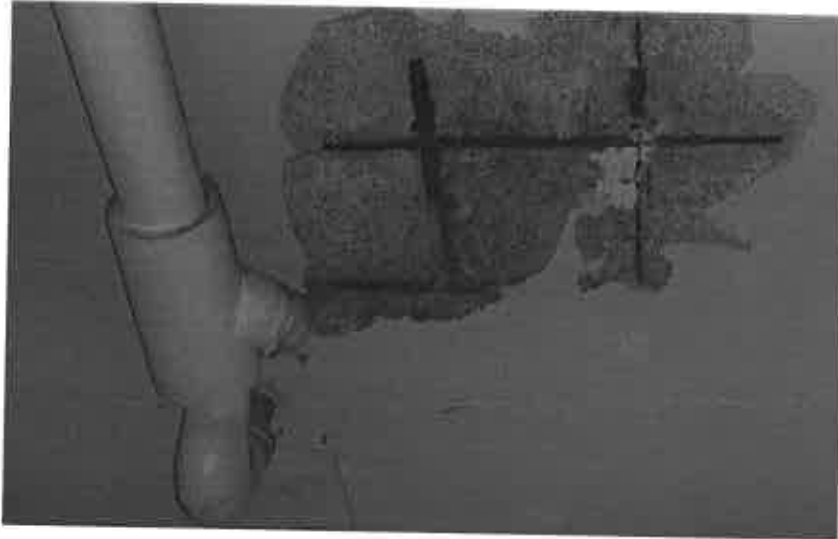
Structural Engineering Services

- Structure and foundation analysis and design
- Existing structure capacity investigations
- Threshold inspections
- Heavy lift rigging consultation
- Soil-structure interaction studies
- Structural reliability studies
- Vibration and seismic analyses
- Fatigue analysis
- Noise and vibration problem design mitigation
- Theoretical and experimental stress analyses
- Analysis and simulation software development
- Load and stress determinations
- Instrument and on-site testing
- Code-compliant structural calculations
- Failure investigations
- Catastrophic damage inspections and design
- Building specifications
- Visual inspections
- Detailed deficiencies documentation

- Testing program development
- Rehabilitation design
- Remedial measures analysis and design
- Engineer's construction estimates
- Underwater and tall structure inspection
- Hazardous waste site structural inspections
- Construction monitoring
- Maintenance plan development
- Materials and non-destructive testing
- Peer review of design by others
- Expert witness
- Concrete restoration investigations
- Concrete repair methodology
- Building foundation design
- Heavy lift rigging consultation
- Life cycle costing and maintenance plan development

GAI's specialty designs for building and sheet metal fabrication include steel stacks, and generator shrouds, and a variety of unique specialty structures including theme park rides and tracks, rigging and safety equipment, theatrical props, catwalks, and vehicle frames. The structural engineering specialists at GAI translate sound engineering concepts into comprehensive reports, plans, and specifications that meet clients' specific needs.





Stanwix Street Parking Garage Repairs and Plaza Deck Rehabilitation

The four-level, 170,000 sq. ft. Stanwix Street parking garage is situated beneath a 23-story office building in downtown Pittsburgh. It was constructed in 1969 and consists of cast-in-place reinforced concrete slabs supported by composite steel framing and steel columns. In 2012, GAI Consultants conducted an evaluation of the below-grade structure to assess the condition of the parking garage and plaza deck structures and determine areas in need of repair.

GAI developed concrete repair drawings and specifications to address required structural repairs, and developed design drawings for complete rehabilitation of plaza deck. The ensuing rehabilitation effort included removal and rehabilitation of the above grade plaza deck to replace the underlying water-proofing membrane.

LOCATION: Pittsburgh, Pennsylvania

COST: \$20,000

COMPLETION: 2012

REFERENCE:

CBRE Inc.
Kylee Faccini
US Steel Tower FI 14
600 Grant Street, Suite 1400
Pittsburgh, Pennsylvania
412.394.9833

PERSONNEL: Jason Truckenbrod, PE



College Station Apartments Geotechnical Investigation

The 4-story College Station Apartment complex with a partial basement houses 54 apartment suites and common areas for students of The Pennsylvania State University, Abington Campus. Consistent with site topography, retaining walls were incorporated into the building with an additional retaining wall providing a protective grade separation for a stream along one side of the site.

GAI Consultants conducted a geotechnical investigation of the existing undocumented site fill and obtained natural soil depth data. Augered cast-in-place piles were recommended to support the vertical and lateral loadings from the structure and retaining walls. GAI prepared the geotechnical design for the piles and coordinated with the structural engineer designing the piles, pile caps, grade beams, and the basement and foundation retaining walls. GAI responded to design review comments related to geotechnical elements to help facilitate the building permit, and during construction provided observation, evaluation and materials testing services for the pile, wall foundation, reinforced concrete, and structural backfill construction.

LOCATION: Willow Grove, Pennsylvania

COST: \$10 million

COMPLETION: 2013

REFERENCE:

MA Curcillo Inc.
Matthew Genesio
PO BOX 481
Huntingdon Valley, Pennsylvania
215.208.4501

PERSONNEL: Pat Gallagher



JASON TRUCKENBROD, PE

Senior Engineering Manager

Mr. Truckenbrod specializes in engineering, design, and management for commercial, industrial and public utility projects. His experience includes complete structural design from the selection of structural systems and definition of design basis to the preparation of detailed calculations, specifications and construction drawings. Additional experience includes structural assessments, forensic evaluations, building demolitions, bridge and highway projects, and construction administration. He has a working knowledge of the latest design manuals for steel, concrete, masonry, and timber, as well as the International Building Code. Mr. Truckenbrod supervises the engineering and drafting staff within the GAI Structural Engineering Group.

- CA05 Module Qualification, Westinghouse Electric Company, Cranberry Township, Pennsylvania. Project Engineer responsible for the design qualification of the CA05 Module for the AP1000 Reactor Building. Project included preparation of calculation notes in accordance with Westinghouse procedures. Design included the finite element analysis of the reinforced concrete module walls with the ANSYS computer program. Additional tasks included preparation of redline drawings to address changes to the original design prompted by changes in the field during construction.
- Gypsum Pond Sump, GenOn Energy, New Florence, Pennsylvania. Project Engineer responsible for the design of a 25,000 sq. ft. concrete sump for the collection and treatment of stormwater runoff. The design included the reinforced concrete slab and walls as well as rack anchors attached to the base slab designed to resist hydrostatic uplift forces from groundwater.
- Transmission Pole Design and Analysis, Florida Power and Light, Florida. Project Engineer responsible for the analysis of existing transmission pole structures subject to new loading conditions. The poles were either spun concrete or 12-sided steel poles, and were designed for the National Electric Safety Code loading conditions.
- Fish Hatchery Building Foundations, Castalia Trout Club, Castalia, Ohio. Project Manager and Engineer responsible for the hydraulic design of a gravity fed fish hatchery, and the structural design of the hatchery building foundations. The project scope included a site topographic survey, existing bridge condition assessment, preparation of hydraulic profile for the hatchery system, and structural design of the building foundations and concrete raceways for the hatchery building.

Education

- B.S. Civil Engineering, University of Buffalo

Registrations/Certifications

- Professional Engineer, PA, OH, WV, VA, IN, MD

Skills

- Structural Engineering Design and Analysis
- Foundation Engineering Analysis and Design
- Bridge and Structure Engineering and Design

Education

- M.S. Geotechnical Engineering 1988, University of Akron
- B.S. Civil Engineering 1986, University of Akron

Registrations/Certifications

- Professional Engineer, WV, [REDACTED] Ohio, [REDACTED] Kentucky, 19097; Indiana
- Professional Licensed Surveyor, WV, No. [REDACTED]

Skills

- Civil and Geotechnical Engineering
- Subsurface Exploration
- Laboratory Testing
- Foundation and Embankment Design
- Slope Stability and Landslide Engineering
- Landfill Planning, Design, Construction Monitoring
- Acid Mine Drainage
- Water Feasibility Studies



CHARLES STRALEY, PE, PLS

Engineering Manager

Mr. Straley specializes in civil engineering with an emphasis in geotechnical engineering, including all aspects of subsurface exploration, laboratory testing, foundation and embankment design, slope stability, material and construction specifications, and construction administration, management and monitoring.

- Timberline Association. Inspected, evaluated and design repair alternatives for Spruce Island and Sand Run Dams in Tucker County, West Virginia. Design included evaluation and embankments, improvements to inlet and outlet works, and the geometry of the spillways. Permit applications for both dams were prepared.
- Belmont Ridge Development. Performed annual dam inspection and certification for a 15-foot high earthen dam in Monroeville, Pennsylvania.
- Allegheny Power System. Performed inspection of galleys of the concrete Lake Lynn Dam in Lake Lynn, Pennsylvania.
- BethEnergy. Elevated the stability for the "as-built" configuration of the 200-foot high embankment for a coal slurry impoundment in Century, West Virginia.
- Evaluation of stability and rehabilit. Arco Chemical Corporation of an existing water retention structure located adjacent to the Ohio River.
- Evaluated, inspected and designed the rehabilitation for a concrete hydroelectric dam in Luray, Virginia. Dam rehabilitation included the replacement for a fish ladder.
- West Virginia Department of Environmental Protection, Office of Special Reclamation, Lodestar Energy. Design of and preparation of construction documents for a landslide above a residence as an emergency project. Activities included site grading, subsurface investigation, hydraulics and hydrology analysis, collection of mine drainage and mine seals, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation.
- West Virginia Department of Environmental Protection, Abandoned Mine Lands, Latrobe (Gibson) Landslide. Design of and preparation of construction documents for a landslide above a residence as an emergency project. Activities included site grading, subsurface investigation, hydraulics and hydrology analysis, valley fill design, COIE permitting, preparation of drawings and technical specifications, engineering cost estimate and pre-bid meeting presentation.



Kanawha Boulevard Streetscape, Charleston, WV

Landscape Architecture, Planning, Economics, and Urban Design

Firm Experience and Practice Concentration
Individual Staff Experience





Planning | Urban Design
Landscape Architecture
Economics | Real Estate

Community Solutions: *Experienced People, Open Minds, Fresh Ideas*

What We Are

GAI's Community Solutions Group is an idea-driven strategic consulting practice integrating design, planning, and economics. We are committed to enhancing communities in ways that are practical, sustainable, and authentic to our clients' needs, while being politically aware, financially feasible, and aesthetically compelling. Our mission is to create livable places of lasting value in an increasingly connected, complex, and competitive world.

Who We Are

The Community Solutions Group is a unique team of landscape architects, urban designers, land use planners, public finance and economic development specialists, and public administrators who capture the full dimensions of strategy and solution. Committed to positioning cities for a sustainable future, we are recognized for delivering insightful, thorough, and technically sophisticated solutions. We embrace a philosophy that values the complex interrelation of people, place, and policy while considering a project's ability to positively impact its investors, community, and setting. GAI's Community Solutions Group listens carefully and actively, questioning assumptions with positive energy and fresh ideas. We seek to understand our client, the place and its context, and the real substance of issues before we act. We are passionate about our work, care for people, and are purpose-driven practitioners with a track record of positive outcomes.

What We Do

Our work centers on finding resolution to place-based problems by implementing context-sensitive, sustainable solutions that are economically and fiscally beneficial and implementable. We engage diverse community groups to affect positive outcomes with shared benefits through integrated solutions. Consequently, our clients include governments, agencies, institutions, and developers who share an equal need to address complex and inter-related challenges. We work from planning to policy and concept to construction across the scales of region, city and campus; neighborhood, street and site.

As an art, our practice requires an understanding of the nuances of feasibility, political sensitivity, urban form, relationships, and character of place. But as a science, it involves street geometries and hydrologic flows, floor-area ratios, densities, market economics and financing mechanisms. We are effective because we are sensitive and sophisticated about implementing complex ideas across the platform of inclusive participation, thoughtful design, funding and finance, public policy, and community partnerships for initiatives both large and small. As part of GAI, our specialized practice combines with the broad knowledge of a 900-person engineering and environmental consulting firm.

Landscape Architecture

The Landscape Architecture Studio within the Community Solutions Group integrates an experienced team of professionals that strives to raise the standard of planning and design services to a new level with every project, producing sustainable, context-sensitive solutions that meet our client's objectives. We listen to their concerns, their desires, and their needs; we gather a deep understanding of place and issues, and then deliver thoughtful and innovative solutions. The studio operates under a fundamental planning and design philosophy that seeks to develop solutions that make a positive contribution to the economic and social values of a community or place. Whether the question is community master planning and place-making, streetscape and corridor design, sustainable stormwater strategies (LID), parks and open space design or corporate and campus planning and design, we are committed to creating rich, diverse and sustainable places for people; beautiful works that allow people to connect to the environment and that respect a community's cultural, historical, and environmental heritage.

Master Planning and Urban Design Practice

The Community Solutions Group's master planning and urban design practice focuses on crafting plans that create livable places of lasting value for communities that require context-sensitive, sustainable solutions. We prioritize close collaboration with clients through an approach that emphasizes plans that reflect strong neighborhoods, livable transportation networks, interconnected park and open space systems, environmental sensitivity, and economic opportunities. Through work at the scale of city, neighborhood, and street, our plans create the framework for rich, interactive settings that bring people together in environments that facilitate meaningful experiences that enrich lives.

Our team draws upon expertise in multiple disciplines to balance physical, social, and economic needs and create urban places that enhance quality of life. We understand that each building, streetscape, transportation corridor,

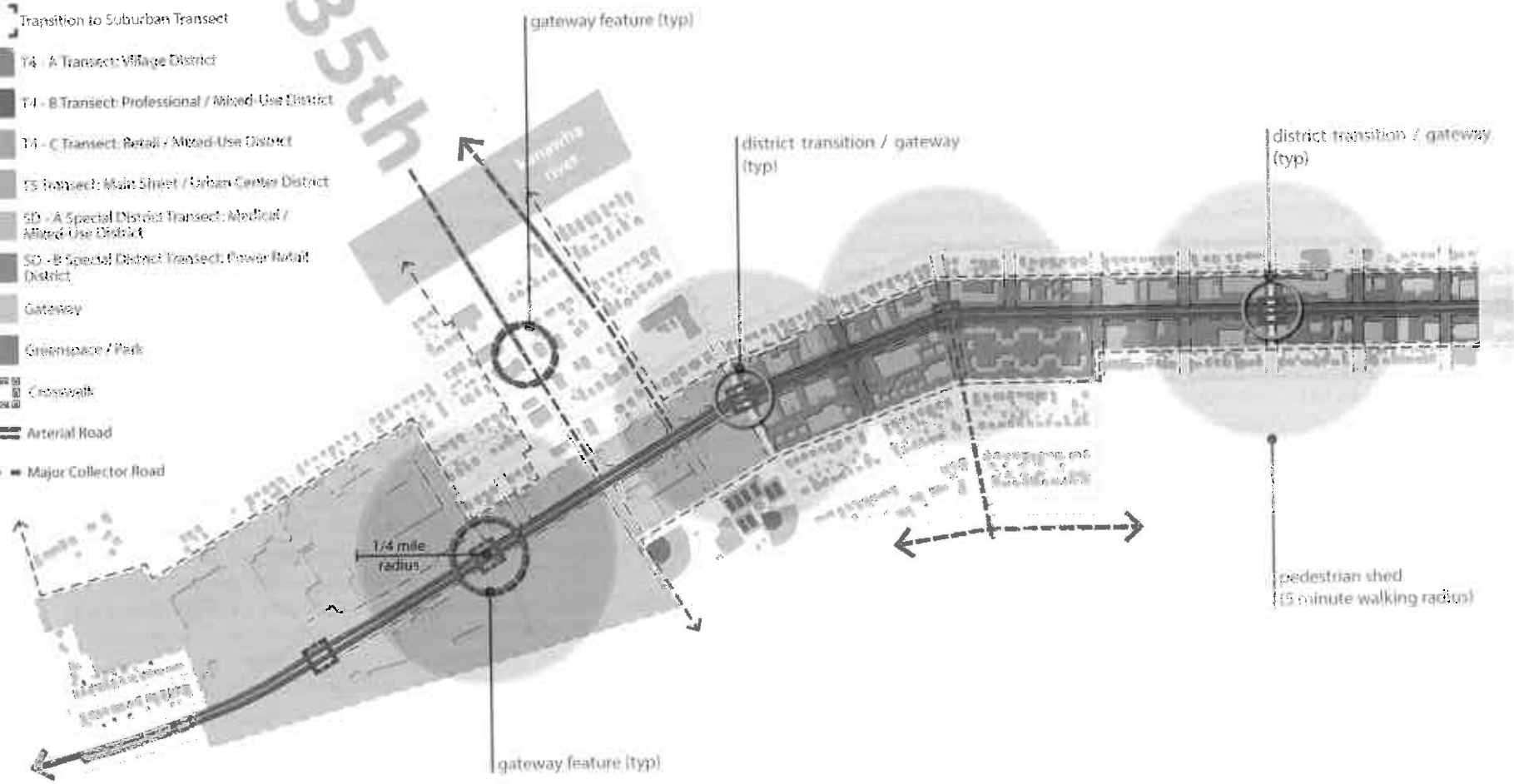
and park works toward creating an urban place that transcends the value of any individual element. Our planners and engineers work closely with clients to ensure that each piece of this urban fabric is deliberately designed with quality and respect for its role in the public realm. With an eye toward implementation, we also understand the complex regulatory processes that must be navigated in order to gain approval for these great community plans. We draft clear plans and regulations designed to support community goals, preserve lifestyle choices, and create economic development and redevelopment opportunities, and we forge partnerships between stakeholders and local governments to achieve these positive outcomes.

Economic + Real Estate Consulting

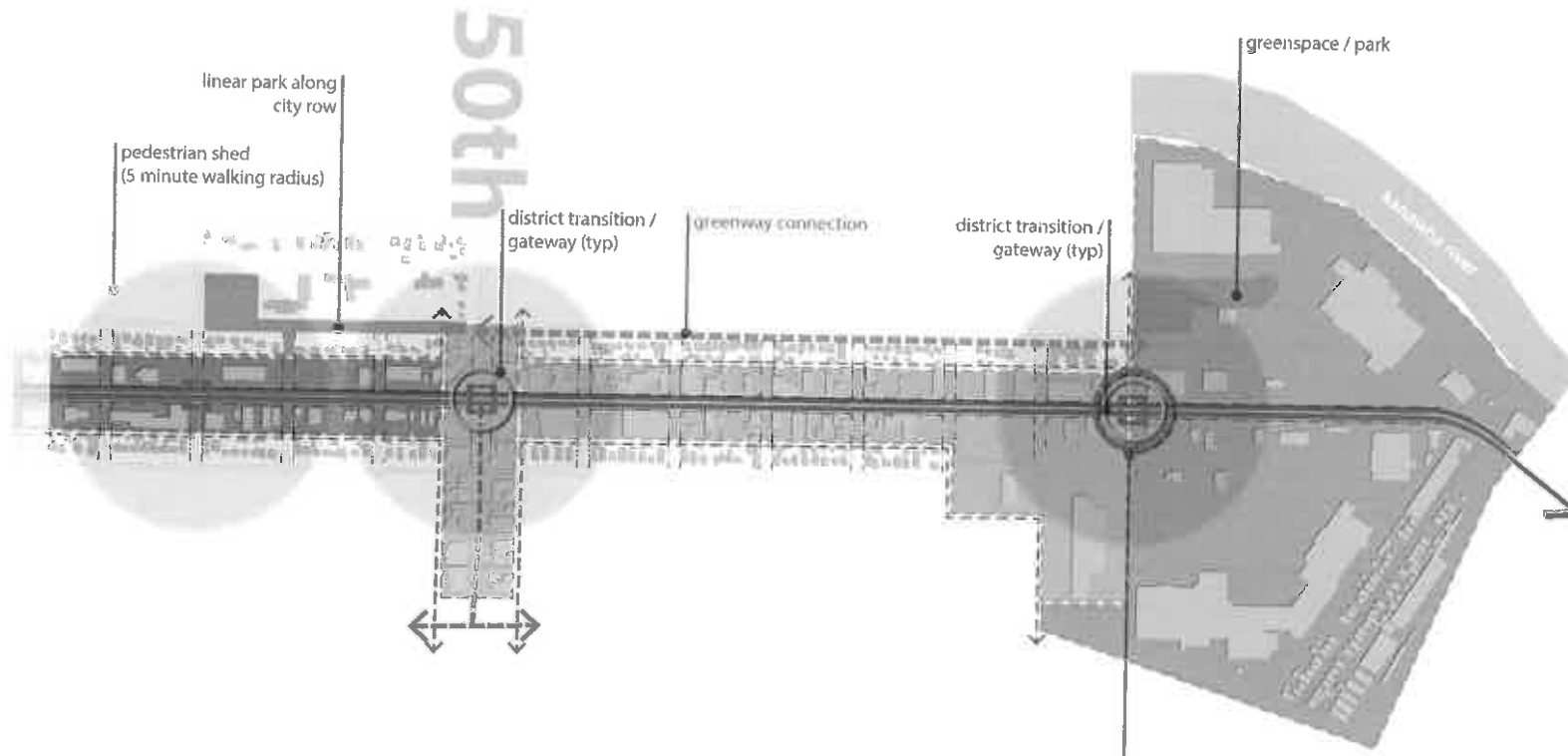
GAI's economic and real estate consulting services draw from the advising team's experience, education and a culture which integrates allied disciplines to enhance the appropriate solutions. The firm's approach draws upon its knowledge of growth management techniques in many state settings, local regulatory constraints, infrastructure systems and design, public finance, awareness of the needs in the private marketplace, preferred land use forms, aesthetics, emerging trends in development, and the linkages among infrastructure, economic development, and the character of the built environment. This knowledge enables our clients to choose critically between alternatives and implement a strategy or master plan that is flexible, cost effective, sustainable, and marketable, attributes sought by both our public and private clientele.

Legend

-  Transition to Suburban Transect
-  T4 - A Transect: Village District
-  T4 - B Transect: Professional / Mixed-Use District
-  T4 - C Transect: Retail / Mixed-Use District
-  T5 Transect: Main Street / Urban Center District
-  SD - A Special District Transect: Medical / Mixed-Use District
-  SD - B Special District Transect: Power Retail District
-  Gateway
-  Greenspace / Park
-  Crosswalk
-  Arterial Road
-  Major Collector Road



Conceptual Master Plan



MacCorkle Avenue Corridor Study

The City of Charleston wanted to develop community enhancements to the MacCorkle Avenue Corridor from 31st Street to 58th Street within Kanawha City. GAI Consultant's Community Solutions Group engaged the City and the Kanawha City Community Association (KCCA) in a collaborative planning and design process that will transform the Corridor into reality. The scope of work included assisting the City to refine a vision for the corridor, developing and incorporating public art within the project, identifying programs for private sector implementation, and identifying funding needs. Services provided included full planning, design and engineering from master planning through construction administration, and also include assisting the City with funding applications.

The scope of work and services provided for this study were very similar to those requested for the PA Route 18 Corridor Study. Highlights from this project can be found in the Project Approach section of this proposal to illustrate the similarities and our experience.

LOCATION: Charleston, West Virginia

COST: Ongoing

COMPLETION: 2013

REFERENCE:

City of Charleston
David Molgaard
501 Virginia Street East, RM 101
Charleston, West Virginia
304.348.8000

PERSONNEL: Dave Gilmore, PLA, ASLA



East End Community Park

The East End Community Park was planned on a two acre tract of land that was acquired by the City of Charleston, West Virginia. The site has a history of both residential and industrial uses stretching back more than 100 years; both of which had adverse effects on the property. Due to years of railroad related industry, the soil became immersed in contaminants ranging from creosote to trace levels of benzo(a)pyrene. Furthermore, the single family residential homes located on the property had fallen into disrepair and had become a concern of neighbors and the local urban renewal authority.

After acquiring and clearing the land, the City of Charleston hired GAI Consultants with the task of remediating the brownfield issues and transforming the community blight into a neighborhood and citywide gem. The effort was broken into phases, the first of which included a grand entrance to the park that boasts a steel and masonry arch boldly spelling out the words "East End Community Park." After passing under the arch, guests are invited to walk along a 100 foot long and 24-foot wide linear plaza that is divided by raised planters and lined with LED lit benches and lush vegetation. Along the expanse of the entrance plaza, there are also two up lit concrete pedestals that are used for mounting sculptures crafted by local artists. Finally, at the terminus of the plaza, there is a large patio that is clad with concrete pavers and covered by an architecturally appealing steel pergola, which is the focal point of the park.

Phase II of the park, which is currently underway, will include a tree lined crushed stone walking trail that will wrap around a central lawn. Later phases have been planned to include features such as a children's playground, splash ground, and parking lot.



LOCATION: Charleston, West Virginia

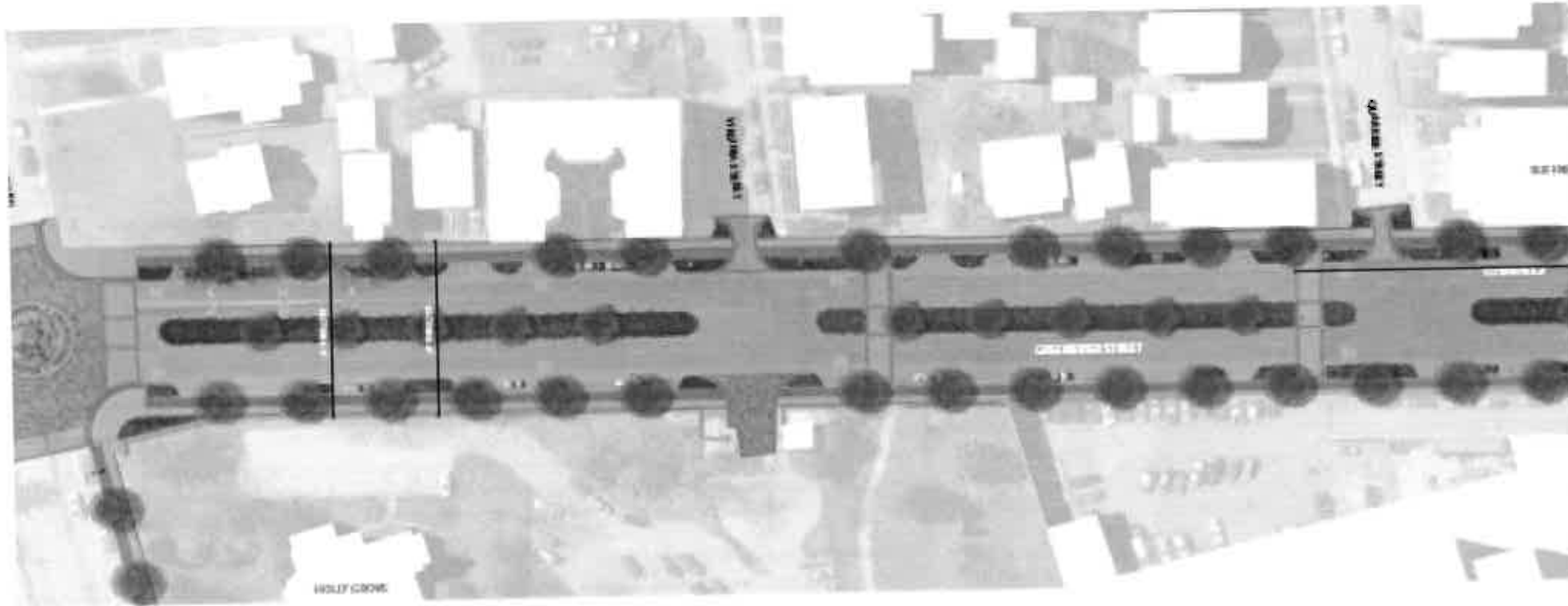
COST: \$500,000 (Phase I)

COMPLETION: 2013

REFERENCE:

City of Charleston
David Molgaard
501 Virginia Street East, RM 101
Charleston, West Virginia
304.348.8000

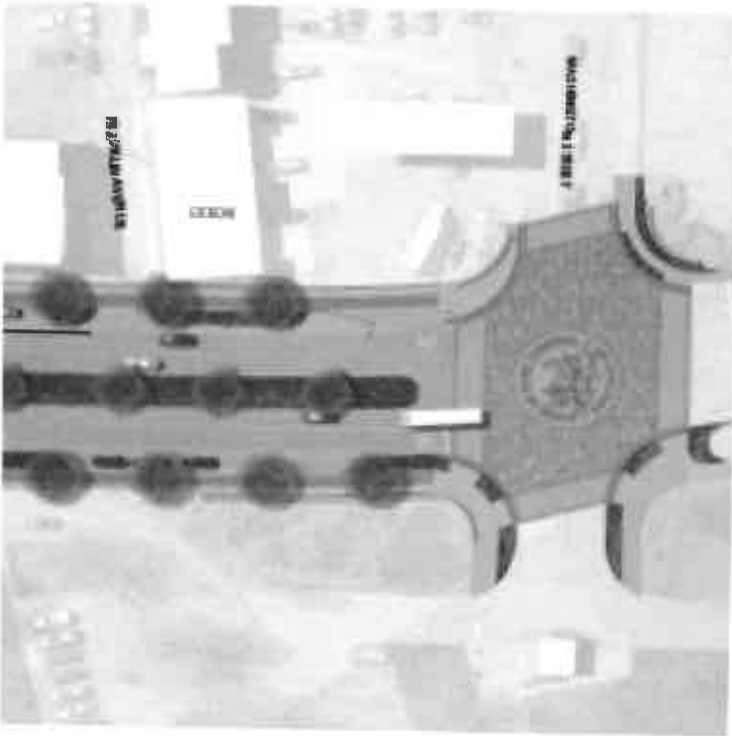
PERSONNEL: Dave Gilmore, PLA, ASLA



Greenbriar Street before



Greenbriar Street after



Greenbrier Street Pedestrian Safety Improvements

The proposal by East End Main Street includes a traditional streetscape along the west side of Greenbrier Street. The design will incorporate increased sidewalk widths, street trees, gateway markers, benches, site amenities, gateways, crosswalks, enhanced medians with safety islands for pedestrian safety, and traffic calming methods such as narrower drive lanes (min. 10.5') and corner bump-outs. The current roadway configuration of four drive lanes and parallel parking will be maintained with only the dimensions of the roadway section being altered to provide additional safety for pedestrians.

The ultimate plan is to extend the efforts that are currently being made by the WV State Capitol administration to redesign the east lanes of Greenbrier Street. East End Main Street sees this as an ideal opportunity to cooperate with the Capitol plans in a way that will enhance this segment of Greenbrier Street holistically.

LOCATION: Charleston, West Virginia

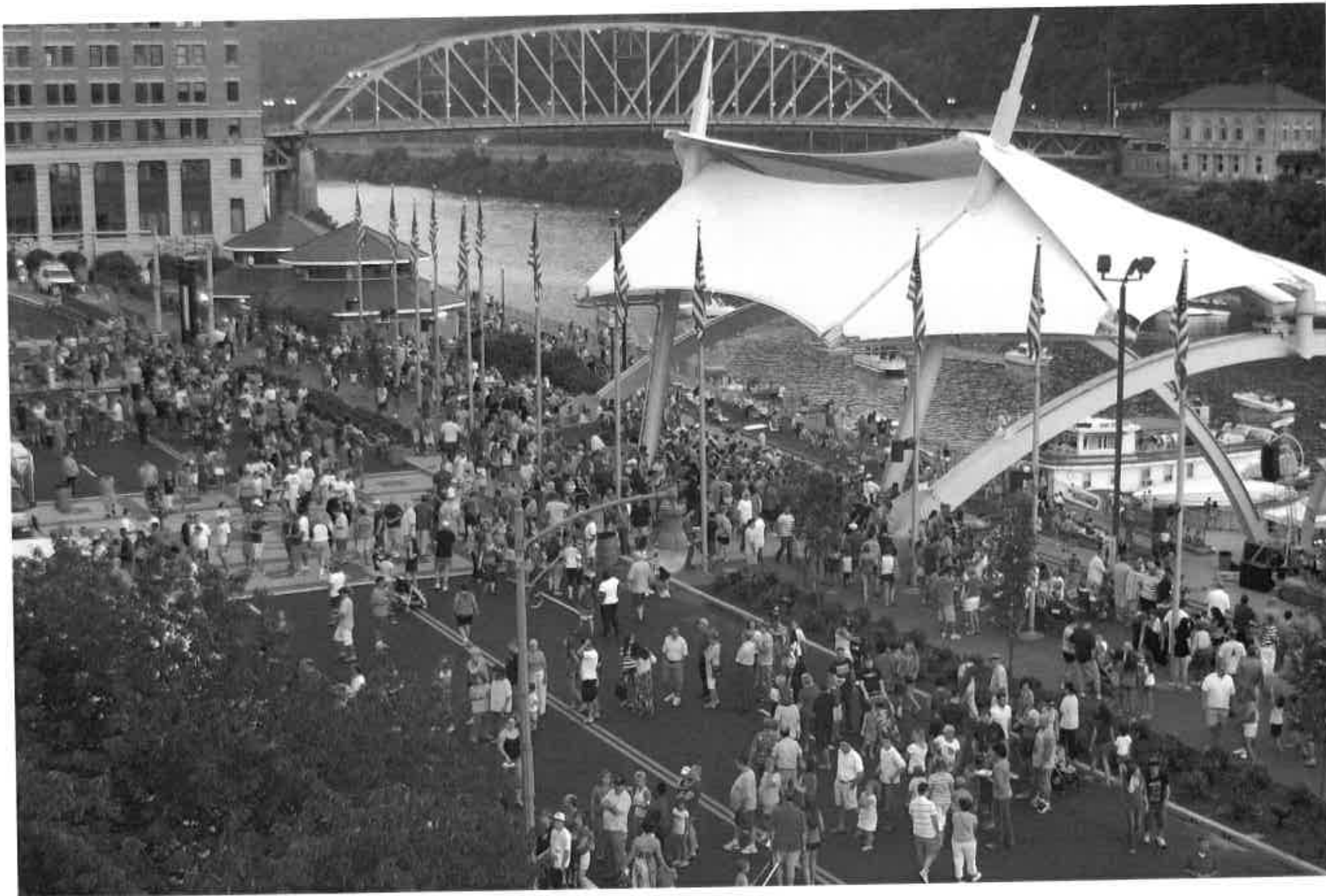
COST: N/A

COMPLETION: Design Completed 2014

REFERENCE:

City of Charleston
 David Molgaard
 501 Virginia Street East, RM 101
 Charleston, West Virginia
 304.348.8000

PERSONNEL: Dave Gilmore, PLA, ASLA





Haddad Riverfront Park

GAI Consultants was selected to provide master planning, public participation services, design, construction and engineering solutions for the renovation of the Haddad Riverfront Park, which is a popular concert, festival and leisure site in downtown Charleston, West Virginia. Among the City of Charleston's project requirements were a retractable canopy to provide protection and visual interest, an overlook plaza and pavilion that extends Court Street to the Kanawha River, an extension of the lower wharf area, a new streetscape design along Kanawha Boulevard, and an event stage for concerts.

GAI was successful in meeting an aggressive 18 month planning, design, and construction schedule. Change orders during construction amounted to less than .5% of the total cost. Taking a different approach, GAI presented an initial design that encompassed and connected all four parts of the entire project. The design was highlighted by a grand staircase that would lead to the proposed amphitheater, which serves to open the park to Kanawha Boulevard, making it an integrated part of downtown Charleston.

LOCATION: Charleston, West Virginia

COST: N/A

COMPLETION: Ongoing

REFERENCE:

City of Charleston
 David Molgaard
 501 Virginia Street East, Room 101
 Charleston, West Virginia
 304.348.8000

PERSONNEL: Dave Gilmore, PLA, ASLA





Imagine Charleston

The 2013 Downtown Charleston Redevelopment Plan, as part of a broader Comprehensive Plan for the City, provides a vision toward a sustainable future and creates a dynamic framework for realizing that vision. The development of this framework was guided by extensive public participation and the committed leadership of the City of Charleston, the Charleston Urban Renewal Authority (CURA) and Charleston Area Alliance (CAA). Citizen participation informed the evaluation of needs and provided a clear set of recommendations for improving the Downtown, including specific target areas and consensus on some implementation strategies.

The result is a plan that provides detailed analysis of the physical framework of the Downtown and recommends strategies that, along with relevant public policy, will help guide growth and development in the City of Charleston. It is long range in its vision, yet it leverages current and upcoming opportunities that will help to achieve the vision. This Downtown Redevelopment Plan also builds on prior initiatives and takes into account ongoing and future planned developments to create a unified vision for the Downtown area. Based on 10 Sustainable Guiding Principles and 6 Big Ideas, the plan will shape all future developments in Downtown Charleston and create an environment that will allow Charleston to continue to emerge as the cultural, recreational and business center of the Appalachian region.

LOCATION: Charleston, West Virginia

COST: N/A

COMPLETION: 2013

REFERENCE:

City of Charleston
 David Molgaard
 501 Virginia Street East, Room 101
 Charleston, West Virginia
 304.348.8000

PERSONNEL: Dave Gilmore, PLA, ASLA



Backcountry and Recreation

The Blackwater River, the NCYSE site and surrounding protected lands offer a host of outdoor opportunities including fishing, hiking, cross-country skiing, climbing, canoeing, kayaking and canoeing. A flat area above the wetlands provides an area for music, either small or large group activities.

Clustered Housing

Student and staff housing are arranged in clusters surrounding small open spaces. Student cabins and lab education modules also share the open space forming smaller learning communities. Roads of housing, along circulation paths, face the red pine common areas and meadows while the backs of housing face out into the quiet forest.

Arriving at the NCYSE

A new bridge by the WV Department of Transportation crosses the Blackwater River. It provides the connection to the Heart of the Highlands hiking trail and a threshold for the site. An accessible trail and road lead up to the main facility. Various site features including rock outcroppings, shaded streams and ephemeral streams. At the top of the hill a circular drop-off area is large enough for bus queuing.

Commons Area

The Main Assembly Hall, Dining Hall, and Great Lounge define a large outdoor Commons roughly the same size as the former Potomac Commons. This is the nucleus of the Center.

Lab Education Modules

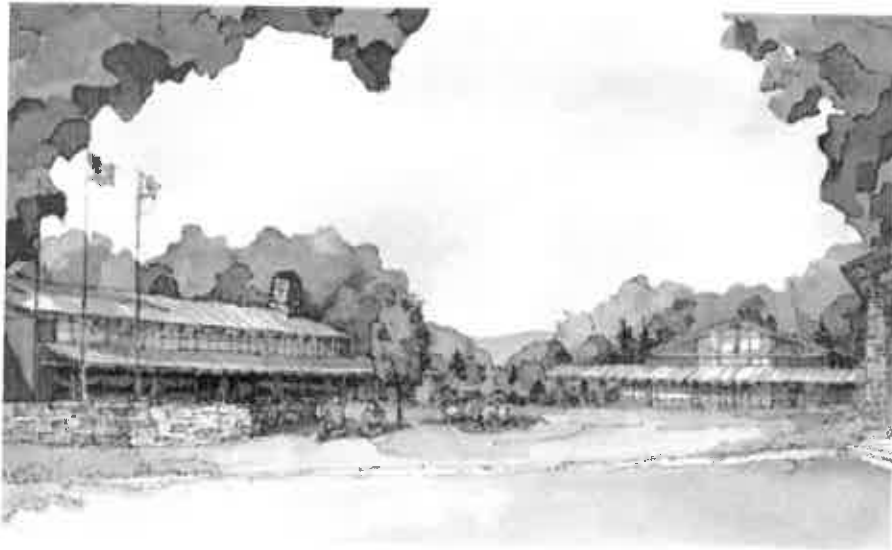
Five buildings, each containing two flexible classrooms for 12 students, are located either out in the site near natural features or as part of a housing cluster.

National Center for Youth Science Education | 2009

National Center for Youth Science Education Master Plan

The National Center for Youth Science Education (NCYSE), also known as the "Youth Science Camp", is being relocated from its historic leased property in rural Pocahontas County to a prestigious, environmentally sensitive facility located on its own property adjacent to the Blackwater River in Tucker County. The new facility has plans to eventually operate year round providing a wealth of educational outreach programs, while still maintaining the core focus of the "Camp" during the summer months. GAI Consultants provided master planning and schematic design services for the proposed Camp property. GAI was involved with initial programming and scope development for the project, as well as data collection, site analysis, geological review and permitting reviews for the entire property, which included hydrology, soils, slopes, geology, wetlands, vegetation and wildlife.

GAI was responsible for combining the site analysis information and creating a preliminary land use plan and concept plan in order to generate a cost opinion. Additionally, GAI developed designs for utilities, landscape architecture, an access road and a trail. GAI's services helped the National Youth Science Center make better-informed decisions in site development and land use, as well as during construction.



LOCATION: Pocahontas County, West Virginia

CONSTRUCTION COST: \$50 million

COMPLETION: Ongoing

REFERENCE:

Perfido Weiskopf Wagstaff Goettel
Andrew Blackwood, Ed.D.
408 Boulevard of the Allies
Pittsburgh, Pennsylvania
304.205.9724

PERSONNEL: Dave Gilmore, PLA, ALSA



West Virginia State Campus Perimeter Safety Improvements Master Plan

GAI Consultants was recently awarded a contract to provide Master Plan landscape design and planning services to the WV State Capital campus. The campus requires enhanced levels of security while maintaining an architectural and aesthetic continuum with the strong participation of the WV National Guard and thorough research into the “best practices” of security devises/applications used elsewhere. Both perimeter and interior areas of the campus require degrees of security/protection. This very necessary protection is to be accomplished while enhancing the “park-like” qualities of the campus and ensuring the campus is inviting to the pedestrian.

Services require the establishment of a design language for the overall campus environment that speaks to the architectural and cultural heritage of this beautiful campus. Plantings, buildings, memorials, furniture/site elements and views to/from the surrounding community all constitute that current setting. Security devices need be designed to fit that language while performing their intended function. They will be designed to fit the campus landscape, become “contributing” elements to that landscape and be visually non-invasive to the extent possible.

LOCATION: Wheeling, West Virginia

CONSTRUCTION COST: Ongoing

COMPLETION: Ongoing

REFERENCE:

Matthew Brown

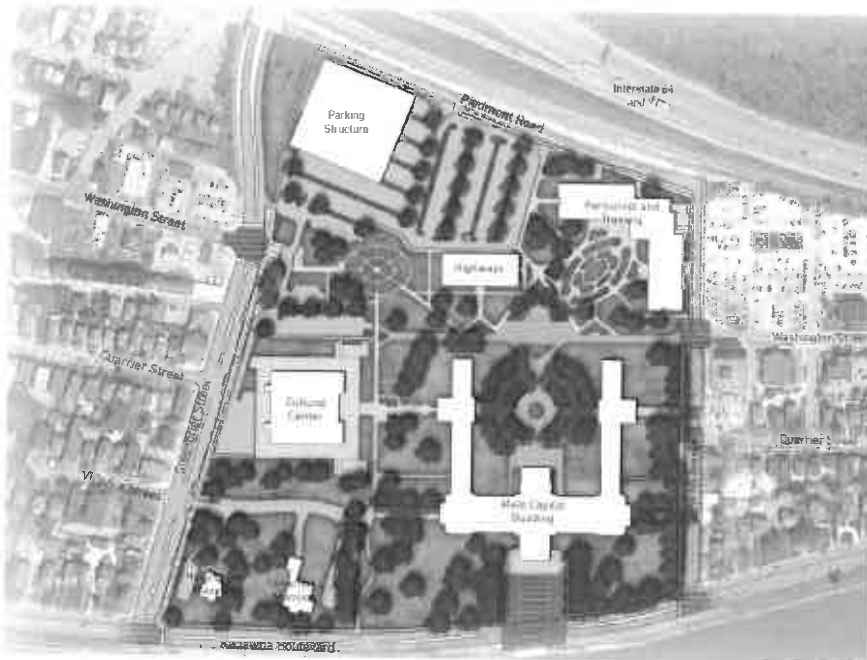
West Virginia State Capital Complex

1900 Kanawha Boulevard East

Charleston, West Virginia

304.558.9911

Personnel: Dave Gilmore, PLA, ASLA







Slack Plaza

Over the last year, GAI Consultants has been working closely with the City of Charleston and its stakeholders by providing master planning services for Slack Plaza. The plaza will function as the primary hub of the entertainment district for the downtown area, linking the historic district to the business district, and is one of the first major planning (and construction) projects that have “spun off” from the Imagine Charleston Study that GAI was also involved with several years ago.

As a “spin off” from the design work that is currently underway for Slack Plaza, the Landscape Architecture and Planning Group has been asked by the Kanawha Valley Rapid Transit Authority (KRT) to redesign their transit mall, along with a 3 block stretch of Laidley Street in downtown Charleston WV. The goal of the design is to move the transit mall to the south of the plaza so it will no longer be in conflict with the pedestrian circulation through the plaza. The design will also create a much needed linear greenway connecting Haddad Riverfront Park to the downtown entertainment district.

LOCATION: Charleston, West Virginia

CONSTRUCTION COST: Ongoing

COMPLETION: Ongoing

REFERENCE:

City of Charleston
 David Molgaard
 501 Virginia Street East, RM 101
 Charleston, West Virginia
 304.348.8000

Personnel: Dave Gilmore, PLA, ASLA





Planning | Urban Design
Landscape Architecture
Economics | Real Estate

DAVE GILMORE, PLA, ASLA

Charleston Office Leader/Director, Landscape Architecture

Mr. Gilmore joined GAI Consultants in 2005 to manage the firm's land development and landscape architectural services. The central focus of his practice is on the continued development of the firm's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all of GAI's offices and clients. He will serve as the overall project manager for the project overseeing scheduling, personnel, design, and client communication.

Prior to joining GAI Consultants, Mr. Gilmore worked for a multi-disciplinary A&E firm in Charleston, South Carolina, providing architectural, engineering, landscape architectural design services. While working in South Carolina, Mr. Gilmore was involved with campus master designs for many colleges and universities, large downtown streetscapes and subdivision layout and design. Mr. Gilmore later worked with a landscape architectural and design firm in Charlottesville Virginia, where he continued his professional development working on a wide range of projects for both the public and private sector. After returning to West Virginia, Mr. Gilmore has been in private practice specializing in site design, land planning, streetscapes and parks and recreational design for numerous public and private clients.

Mr. Gilmore currently serves as the Corporate Practice Area Leader for Landscape Architecture services for GAI Consultants. In this role, he coordinates projects and marketing activities for all of GAI's offices throughout the region. He maintains professional registrations in West Virginia, Pennsylvania, Ohio, Indiana, Maryland, North Carolina, Virginia and Kentucky. In this capacity, Mr. Gilmore brings 22 years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector. Mr. Gilmore's experience includes but is not limited to public outreach and programming, construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (riverfronts, resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing.

Mr. Gilmore was honored by being 1 of 16 people chosen to be included in the inaugural class of GAI's "Leader's to Watch" program. He has completed the companies' Harvard Leadership Training program as well as GAI Universities' Advanced Project Manager Training. Mr. Gilmore is currently finishing his MBA at Point Park University in Pittsburg in April of this year. Mr. Gilmore is also very active in the Landscape Architecture community, having served as the past president of the West Virginia Chapter of the American Society of Landscape Architects (WVASLA) and the State Licensing Board from 2000-2003. Mr. Gilmore also remains active with the WVU School of Landscape Architecture and has won multiple awards from the West Virginia Chapter of the American Society of Landscape Architects for his work.

Education

- MBA Point Park University (currently enrolled) 2015
- B.S. Landscape Architecture 1988, West Virginia University

Registrations/Certifications

- Professional Landscape Architect: West Virginia No. [REDACTED] Indiana No. LA [REDACTED] Pennsylvania No. [REDACTED] Ohio No. LA [REDACTED] Maryland No. [REDACTED]

Affiliations

- (ASLA) American Society of Landscape Architects,
- (WVASLA) West Virginia Chapter
- (CLARB) Council of Landscape Architectural Review Board
- Past WVASLA State Licensing Board
- Past President, WVASLA
- Executive Committee Member, WVASLA
- Chairman, WVASLA Licensing and Sunset Review Committee
- Judge, Senior Design Awards, West Virginia University

Education

- B.S. Landscape Architecture, West Virginia University, 1991
- Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004
- AQUA Conference Educational Sessions, Las Vegas, NV, 2005
- CERFP Team Training, WV Army National Guard, 2006

Registrations/Certifications

- PLA, West Virginia, 1995
- RLA, North Carolina, 2005
- RLA, Ohio, 2002
- CLARB Certified, 2001
- LEED® Green Associate, 2012

Certifications / Training

- WVDOH Bituminous Concrete Inspector Certification, 1991
- WVDOH Portland Cement Concrete Inspector Certification, 1992

Affiliations

- WV State Board of Landscape Architects
- American Society of Landscape Architects
- WV Chapter – American Society of Landscape Architects
- Associate Member – AIA West Virginia
- Society of Military Engineers
- National Guard Association



Planning | Urban Design
Landscape Architecture
Economics | Real Estate

R. TODD SCHOOLCRAFT, PLA, ASLA, LEED AP

Senior Landscape Architect | Project Manager

Mr. Schoolcraft has over 25 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout.

Mr. Schoolcraft is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard. Prior to this, he was a combat engineer with the Design Section of the 111th Engineer Group, West Virginia Army National Guard. The 111th Engineer Group served in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time, Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Mr. Schoolcraft was appointed by the governor to the West Virginia State Board of Landscape Architects and served over 9 years as Secretary and Treasurer.

WV National Guard/DoD/NGB Project Experience

- West Virginia Army National Guard TAG Wing Improvements, Division of Engineering and Facilities, Charleston, WV.
- WV Army National Guard Alloy Armory Bank Stabilization, Falls View, Fayette County, WV.
- Parking Lot Expansion and ADA Accessibility Upgrade, Fixed Wing Army Aviation Training Site (FWAATS), Benedum Airport, Bridgeport, WV
- Robert E. Rooney Marshalling Yard and Final Rinse Facility, Port Ash Shuaybah, Kuwait. US Army Corp of Engineers.
- Building 5 Command Group Renovations, Zone II, Camp Arifjan, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).
- Port Shuaybah Pier Assessment, Port Ash Shuaybah, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).
- Building 5 & 6 Renovations and Electrical Upgrades, Zone II, Camp Arifjan, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).
- Aerial Port of Debarkation (APOD) Consolidation Project, Kuwait City International Airport, Kuwait. Third Army, United States Army Central (USARCENT), Coalition Forces Land Component Command (CFLCC).



GAI Consultants, Inc./Community Solutions Group
300 Summers Street, Suite 1100
Charleston, West Virginia 25301
T 304.926.8100
F 304.926.8180

www.gaiconsultants.com/communitysolutions

©2016 GAI Consultants, Inc.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEC 0603 A21700000001

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

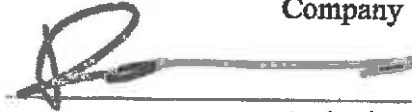
(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

GAI CONSULTANTS, INC.

Company



Authorized Signature

18 AUG 2010

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: GAZ CONSULTANTS, INC.

Authorized Signature: [Signature] Date: 18 AUG 2010

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 18TH day of AUGUST, 2010.

My Commission expires APRIL 11, 2023.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]
Purchasing Affidavit (Revised 07/01/2012)