Eleanor Armed Forces Reserve Center

Enclosure for an Emergency Generator

CEOI ADJ1700000002

WEST VIRGINIA
NATIONAL GUARD
JOINT BASE WEST VIRGINIA

Submitted to:

Bid Clerk
Department of the Administration
Purchasing Division
2019 Washington Street, SE
Charleston, WV 25305

On Behalf of:

Building Trade Specialist
111 Army/Navy Drive
Red House, WV 25168

Submitted by:

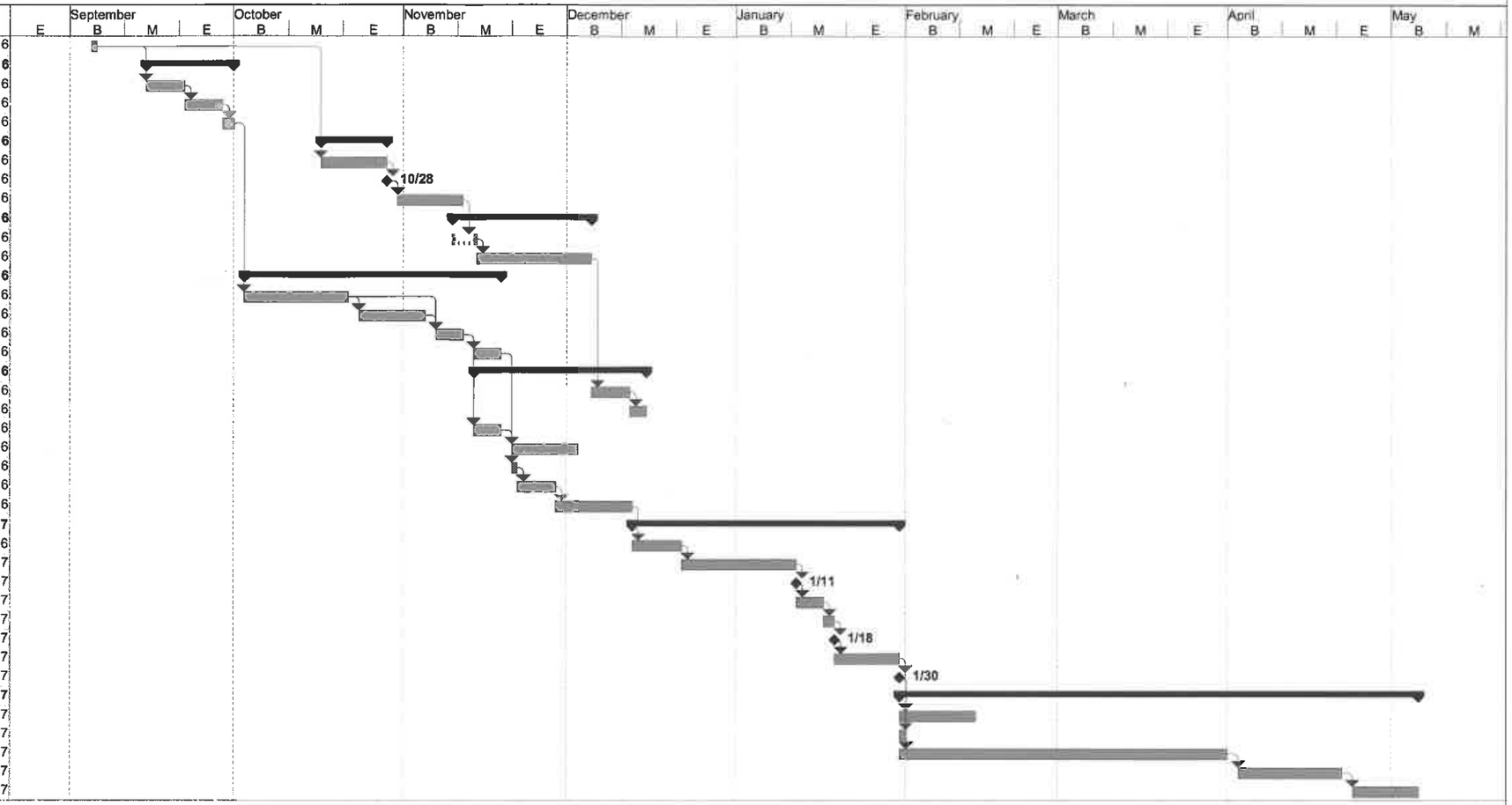
L.A. Gates Company
Engineers & Consultants

TRIAD ENGINEERING, INC.

ELEANOR ARMED FORCES RESERVE CENTER - EXTERIOR ENCLOSURE for INSTALLATION of EMERGENCY GENERATOR

August 18, 2016

ID	Task Name	Duration	Start	Finish
1	**Project Kickoff Meeting**	1 day	Mon 9/5/16	Mon 9/5/16
2	**1.0 Preliminary Engineering**	**12 days**	**Thu 9/15/16**	**Fri 9/30/16**
3	PrepareAlternatives	5 days	Thu 9/15/16	Wed 9/21/16
4	Prepare Alternates cost analysis	5 days	Thu 9/22/16	Wed 9/28/16
5	Review with ARNG	2 days	Thu 9/29/16	Fri 9/30/16
6	**2.0 Survey Services**	**10 days**	**Mon 10/17/16**	**Fri 10/28/16**
7	Topographic Survey	10 days	Mon 10/17/16	Fri 10/28/16
8	Survey Complete	0 days	Fri 10/28/16	Fri 10/28/16
9	**4.0 Preliminary Review with WVARNG**	10 days	Mon 10/31/16	Fri 11/11/16
10	**5.0 Permitting**	**17.6 days**	**Thu 11/10/16**	**Mon 12/5/16**
11	Preparation and Submission of Permit Documents	1 day	Thu 11/10/16	Mon 11/14/16
12	Issuance of Permits	15 days	Mon 11/14/16	Mon 12/5/16
13	**6.0 Technical Documents**	**35 days**	**Mon 10/3/16**	**Fri 11/18/16**
14	Completion of Drawings	15 days	Mon 10/3/16	Fri 10/21/16
15	Completions of Specifications	10 days	Mon 10/24/16	Fri 11/4/16
16	ARNG Review of Documents	5 days	Mon 11/7/16	Fri 11/11/16
17	ARNG Approves Documents	5 days	Mon 11/14/16	Fri 11/18/16
18	**7.0 Opinions of Construction Cost**	**23.6 days**	**Mon 11/14/16**	**Thu 12/15/16**
19	50% Design Completion Cost Estimate	5 days	Mon 12/5/16	Mon 12/12/16
20	ARNG Review of 50% Cost Estimate	3 days	Mon 12/12/16	Thu 12/15/16
21	90% Design Completion Cost Estimate	5 days	Mon 11/14/16	Fri 11/18/16
22	ARNG Review of 90% Cost Estimate	10 days	Mon 11/21/16	Fri 12/2/16
23	Final Approval By ARNG	1 day	Mon 11/21/16	Mon 11/21/16
24	**8.0 SUBMIT ALL DOCUMENTS To ARNG**	5 days	Tue 11/22/16	Mon 11/28/16
25	**9.0 RECEIVE APPROVAL to BID FROM ARNG**	10 days	Tue 11/29/16	Mon 12/12/16
26	**10.0 Bidding Phase**	**35 days**	**Tue 12/13/16**	**Mon 1/30/17**
27	Submit Bid Advertisement for Publication	7 days	Tue 12/13/16	Wed 12/21/16
28	Bid Construction Project	15 days	Thu 12/22/16	Wed 1/11/17
29	Receive Bids	0 days	Wed 1/11/17	Wed 1/11/17
30	Evaluate Bids Received	3 days	Thu 1/12/17	Mon 1/16/17
31	Prepare Resolution	2 days	Tue 1/17/17	Wed 1/18/17
32	Construction Contract Award	0 days	Wed 1/18/17	Wed 1/18/17
33	Construction Contract in Place	8 days	Thu 1/19/17	Mon 1/30/17
34	Start Construction	0 days	Mon 1/30/17	Mon 1/30/17
35	**11.0 Construction**	**69 days**	**Tue 1/31/17**	**Fri 5/5/17**
36	Submittal Review/Response to RFIs	10 days	Tue 1/31/17	Mon 2/13/17
37	Preconstruction Meeting	1 day	Tue 1/31/17	Tue 1/31/17
38	Project Construction	44 days	Tue 1/31/17	Fri 3/31/17
39	Completion of Construction (Punchlist)	15 days	Mon 4/3/17	Fri 4/21/17
40	Construction Contract Closeout	10 days	Mon 4/24/17	Fri 5/5/17



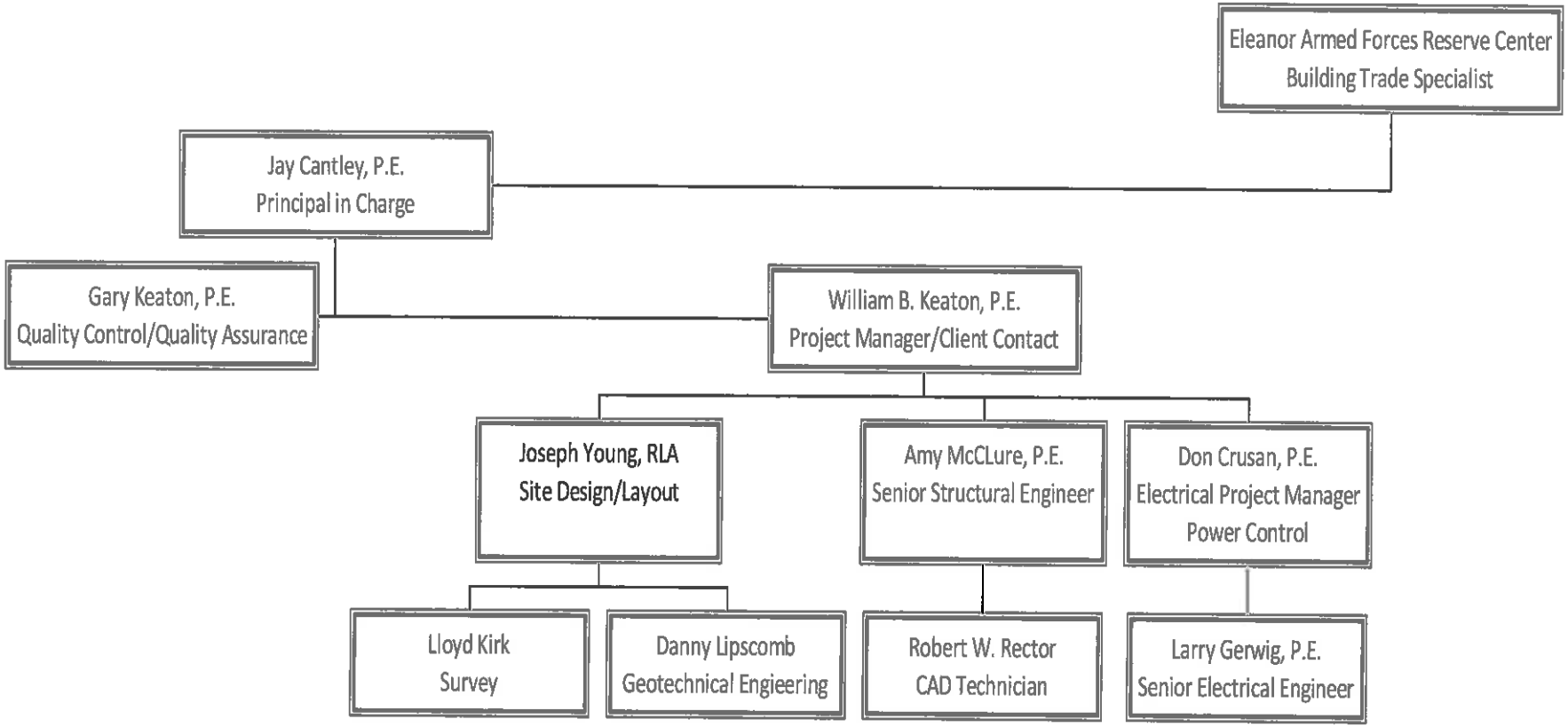
Task	Project Summary	Inactive Milestone	Duration-only	Finish-only	Deadline
Split	External Tasks	Inactive Milestone	Manual Summary Rollup	External Tasks	
Milestone	External Milestone	Inactive Summary	Manual Summary	External Milestone	
Summary	Inactive Task	Manual Task	Start-only	Progress	

L.A. Gates Company
Engineers & Consultants

TRIAD ENGINEERING, INC.

WEST VIRGINIA NATIONAL GUARD
JOINT BASE WEST VIRGINIA

Eleanor Armed Forces Reserve Center – Enclosure for Installation of an Emergency Generator



L.A. Gates Company
Engineers & Consultants

TRIAD ENGINEERING, INC.

Jerry (Jay) W. Cantley, Jr., P.E., P.S.

Executive Vice President
28 Years Experience

EDUCATION:

West Virginia Institute of Technology, B.S. Civil Engineering, 1987

REGISTRATION:

Professional Engineer
West Virginia [redacted]
Virginia # [redacted]
Professional Surveyor
West Virginia [redacted]

MEMBERSHIPS:

Tau Beta Pi - Alpha Chi Chapter
President Elect – ACEC WV
West Virginians for Better Transportation

SPECIALTIES:

- Project Management
- Roadway Design and Plan Production
- Stormwater System Design
- R/W Plan Development
- Sediment & Erosion Control Design
- Project Quality Control
- Construction Coordination
- Surveying
- Water and Wastewater Design
- Contract Administration

L.A. Gates Company
Engineers & Consultants

Jay has over 28 years of experience on a wide variety of civil engineering projects. His projects include work on transportation, water and sewer, site development and environmental projects. He has worked for L.A. Gates Company for the past 24 years starting as a design Engineer in 1991. Since 2005, Jay has been promoted to Executive Vice President and Chief Operating Officer and is the principal in charge of all Engineering Design. Jay oversees and manages all work done at L.A. Gates Company. In Jay's 28 years of experience he has managed over 60 roadway and bridge projects, 20 water and sewer projects and 50 civil/site projects. Jay's strongest skill set include; Project Management, Highway Design, and Stormwater Systems Design. Jay currently directs a staff of 38 engineers, technicians, inspectors and surveyors, who design and prepare plans for projects involving bridges, highways, and natural gas.

In recent years Jay has oversaw the design of some of Gates most notable Highway projects including 4 miles of the East Beckley Bypass and 5 miles of the Coalfields Expressway.

REPRESENTATIVE PROJECTS:

Highway

- *Allen Creek – Big Ridge (Coalfields Expressway), Raleigh County, WV*
- *East Beckley Bypass, Raleigh County, WV*
- *Slab Fork – Surveyor Creek (Coalfields Expressway), Raleigh County, WV*
- *Stollings-Logan Road, Logan County, WV*
- *White Sulphur Springs Interchange, Greenbrier County, WV*
- *Hurricane Creek Road + 1, Putnam County, WV*
- *Kanawha Street Improvements, Raleigh County, WV*

Bridges

- *State Fair Pedestrian Underpass, Greenbrier County, WV*
- *Henlawson Thru Truss Bridge, Logan County*
- *South Mineral Wells Interchange, Wood County, WV*
- *Bradshaw Bridge, McDowell County, WV*
- *Clear Fork Arch No. 1 Bridge, Wyoming County*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Huff Creek Bridge, Wyoming County, WV*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Bruno Bridge, Logan County, WV*
- *Grafton HS Arch Bridge, Taylor County, WV*
- *Main Street Bridget, Wetzel County, WV*
- *Greenbrier Avenue Bridge, Greenbrier County, WV*
- *Shepherd Bridge, Marshall County, WV*
- *Cranberry Creek Bridge, Raleigh County, WV*
- *Russellville Bridge Replacement, Greenbrier County, WV*
- *Airport Bridge Replacement, Greenbrier County, WV*
- *Muddy Creek Bridge Replacement, Greenbrier County, WV*

Jerry (Jay) W. Cantley, Jr., P.E., P.S.

Executive Vice President

28 Years Experience

- Continued –

- *Stollings-Logan Road Bridges, Logan County, WV*
- *Clearfork Coatings Bridge, Wyoming County, WV*
- *Camden on Gauley Truss Bridge Replacement, Webster County, WV*
- *Switzer Monty Brothers Bridge Replacement, Logan County, WV*
- *Roach Truss Bridge Replacement, Cabell County, WV*
- *Stringtown Bridge, Hampshire County, WV*
- *Mill Road Bridge, Hardy County, WV*
- *Steinbeck Bridge Replacement, Roane County, WV*
- *Diana Bridge Replacement, Webster County, WV*
- *Little Hurricane Creek Bridge #1813, Putnam County, WV*
- *James Branch Bridge # 4003, Boone County, WV*
- *Cazy Bridge, #4404, Boone County, WV*
- *Rock Lick Bridge, Boone County, WV*

Water and Sewer Design

- *SSPSD Cool Ridge/Flat Top WWTP Improvements*
- *Water System Improvements for Pocahontas County High School, Pocahontas County, WV*
- *SSPSD Ward Park Sewer Line Improvements*
- *SSPSD Mont Phillips Road Extension*
- *SSPSD Lamplighter Road Extension*
- *SSPSD Sky Line Drive Extension*
- *Georgia Pacific OSB Plant Water and Sewer Line Extensions*
- *Treatment Plant for Twin Falls State Park, Wyoming County, WV*
- *Treatment Plant for Pipestem State Park, Mercer County, WV*
- *Treatment Plant and Collection System for Babcock State Park, Fayette County, WV*
- *Treatment Plant and Collection System for Watoga State Park, Pocahontas County, WV*
- *Treatment Plant and Collection System for Bluestone State Park, Summers County, WV*

Site Development

- *Somar Telecommunications, Raleigh County, WV*
- *CWV Residence Halls, Raleigh County, WV*
- *Springwood Subdivision Roanoke County, Virginia*
- *Limestone Woods Subdivision Greenbrier County, WV*
- *Anthony Woods Subdivision Greenbrier County, WV*
- *Tealwood Subdivision York County, South Carolina*

L.A. Gates Company
Engineers & Consultants

Gary Keaton, P.E.

Vice President – Natural Gas
22 Years Experience

EDUCATION:

West Virginia Institute of Technology, B.S. Civil Engineering, 1993

REGISTRATION:

Professional Engineer
- West Virginia
- Virginia
- Pennsylvania
- Kentucky
- Ohio
- Mississippi
- North Carolina
- New York
- Louisiana
- Tennessee

MEMBERSHIPS:

American Society of Civil Engineers
Association for the Advancement of Cost Engineering
American Concrete Institute
West Virginian Oil & Natural Gas Association

SPECIALTIES:

- Project Management
- SPCC Plans
- Pipeline Integrity Management
- Pipeline Design
- Cost Estimating
- Construction Inspection
- Construction Coordination
- Environmental Permitting

L.A. Gates Company
Engineers & Consultants

As Vice President – Natural Gas, Gary is responsible for the overall management of natural gas projects for L.A. Gates Company. Gary has over 22 years of experience in the oil and gas, construction, highway, and environmental engineering industry.

Gary has extensive experience in the design, permitting, management, and monitoring of natural gas and highway construction projects. Gary is also an industry expert in the field of cost estimating and risk analysis, with over $8 billion worth of capital cost estimating experience covering hundreds of projects from the Gulf of Mexico to the New England states, with an emphasis on natural gas. Gary has also engineered and designed numerous natural gas pipeline facilities.

Past experience includes the following positions: Field Engineer, Environmental Assurance Specialist, Construction Implementation Specialist, Chief Inspector, Cost Engineer, Civil Engineer, and Senior Mechanical Design Engineer.

PAST PROJECTS:

- Scope review, shop fabrication, and construction drawing review for (14) launcher/receiver integrity management projects for natural gas pipeline client.
- Spill Containment, Control, and Countermeasure (SPCC) plan development and Professional Engineer certification for natural gas transmission facilities.
- Detailed engineering design of (12) launcher/receiver integrity management projects for natural gas pipeline company. Included cost estimate, design, material procurement, and drawing reviews. Project costs ranged from $900,000 to $3,500,000.
- Detailed engineering design of (8) natural gas pipeline replacements ranging from 250ft to 16,000ft in length. Included cost estimate, design, material procurement, drawing reviews, and construction support. Project costs ranged from $300,000 to $7,500,000.
- Cost estimate for relocation of gas distribution pipeline in downtown Beckley, WV.

Gary Keaton, P.E.
Vice President – Natural Gas
21 Years Experience
- Continued –

- Detailed engineering design of (9) launcher/receiver integrity management projects for natural gas pipeline company. Included cost estimate, design, material procurement, and drawing reviews. Project costs ranged from $750,000 to $4,500,000.
- Detailed engineering design of (5) natural gas pipeline replacement projects ranging from 800ft to 6,000ft in length. Included cost estimate, design, material procurement, drawing reviews, and construction support. Project costs ranged from $200,000 to $4,000,000.
- Managed scope and cost estimating for 5-year Integrity Management Program for major natural gas pipeline.
- Developed (20) cost estimates for natural gas transmission pipelines and compression facilities ranging in size from $200,000 to $1,500,000,000.
- Detailed engineering design of (3) natural gas liquids tanks between 4000 and 8000 gallons in size. Included cost estimate, design, material procurement, and drawing reviews.
- Developed standard launcher/receiver designs for major natural gas transmission company. Included stakeholder meetings, detailed engineering, and drawing approvals.
- Developed cost estimate for over 1,800 natural gas pipelines, compressor stations, measurement, and other related facilities. Value of estimates totaled over $7,000,000,000.
- Developed cost estimating standards for natural gas pipeline company.
- Developed design standards in launcher/receiver design.
- Developed design standards for cable tray and supports.
- Chief Inspector on (3) natural gas pipeline projects.
- Permitting coordinator on (6) natural gas pipeline and facility project.

William B. Keaton, P.E.

Director – Municipal Services
25 Years of Experience

EDUCATION:

West Virginia Institute of Technology, B.A. 1986
West Virginia Institute of Technology, B.S. Civil Engineering, 1993
Webster University, M.A., Management, 1992

REGISTRATION:

Professional Engineer
- West Virginia
- Virginia
- North Carolina
- New York
- Tennessee

MEMBERSHIPS:

American Society of Civil Engineers
WEF/AWWA
NSPE
American Society of Military Engineers

SPECIALTIES:

- Project Management
- Water Conveyance Systems/Pump Stations
- Wastewater Collection/Lift Stations
- Pipeline Rehabilitation
- Plan Review
- Site Utility Design
- Water Treatment
- Wastewater Treatment
- Funding Applications
- Water System Capacity Evaluations
- Sewer System Capacity Analysis
- SSES/CSO Evaluations
- Risk Assessment for Water Systems
- Risk Assessment for Wastewater Systems
- Stormwater Management/MS4
- Cost Estimating
- Construction Inspection
- Construction Coordination
- Environmental Permitting

L.A. Gates Company
Engineers & Consultants

As Director – Municipal Services, Bill is responsible for the overall management of municipal services projects for L.A. Gates Company. Bill has over 25 years of experience in the site development, parks, federal facility utilities/site design, water and wastewater treatment design, and capacity analysis of water and wastewater systems, permitting, and environmental engineering.

Bill has extensive experience in the design, permitting, management, and monitoring of site projects consisting of Stormwater management, waste water system conveyance and treatment and waste water conveyance and treatment. Bill has been responsible for such large projects as the potable, fire and process water system analysis of the Radford Army Ammunition Arsenal in Radford, VA. He was the project manager and lead engineer on several BRAC projects including the new Faith Center at Quantico, VA.

Past experience includes the following positions: Senior Engineer, Lead Construction Engineer, Section Leader, Director and Vice President.

PAST PROJECTS:

- Project manager, lead engineer for Radford Army Arsenal potable, fire and process water system inventory and analysis. The project involved the inventory and of over 100 miles of varying size water lines, eleven water storage tanks, booster stations. The project determined the useful live and replacement cost estimates for the entire facility.
- Project Manager/Lead Engineer for the firing range improvements at Camp Dawson, Kingwood, WV.
- Project Manager/Lead Engineer for the new Faith Facility on Quantico, VA.
- Project Engineer for the site development for the Tamarac Arts Facility in Beckley, WV.
- Lead Engineer for the site designs and utilities for fourteen (14) cabins and the lodge at the Stonewall Jackson State Park, Lewis County, WV
- Project Manager/Lead Engineer for twelve wastewater treatment systems in Summit County, OH.

William B. Keaton, P.E.
Director – Municipal Services
25 Years of Experience
- Continued –

- Lead Engineer on the Cabell County, WV Project 2000 water report that inventoried all water systems in Putnam County, WV and made recommendations on how to provide potable water to all of Putnam County, WV
- Project Manager/Lead Engineer on the Town of Buffalo, WV Regional Wastewater Treatment Plant that serves the Toyota Motors Manufacturing Company
- Project Manager for the Kanawha County, WV Water systems projects totaling $12,000,000 in construction over a three year period.
- Project Manager for the Putnam County, WV Water systems projects totaling $9,800,000 in construction over a two year period. Project included a 300,000 gallon elevated water tank and two booster stations.
- Project Manager for the Cabell County, WV Water systems projects totaling $8,250,000 in construction over a three year period.
- Project Manager for a $12.4 million upgrade to the East Greenbush, NY wastewater treatment plant.
- Project Manager for the Decommissioning of the Goshen Correctional Facility water and wastewater treatment plants and the design of connective systems to Orange County, NY.
- Assistant Project Manager for the $20 million wastewater treatment plant upgrade to the City of Charleston's Wastewater Treatment Plant.
- Project Manager for the City of Salem, WV raw water impoundment improvements project that included a new spillway and intake structure.
- Project Manager for East Pointe Business Park, Clarksburg, WV site development included building pads, entrance roads and utilities.
- Design of the replacement for the Dunlow Truss Bridge in Randolph County, WV. Work included hydraulics, structural design, approach roadways, and permitting for a 180' structure.
- US460/I77 bridge replacement consisting of a new four lane bridge over I-77 in Mercer County, WV. Work effort also included relocation of water and sanitary sewer, water, and storm water lines. Project included a 1.2 mile access road.

Amelia McClure, P.E.

Structural Engineer
17 Years Experience

EDUCATION:

West Virginia Institute of Technology, B.S. Civil Engineering, 1998

Marshall University Graduate College, M.S. Engineering, 2002

REGISTRATION:

Professional Engineer
West Virginia [redacted]
Virginia [redacted]

MEMBERSHIPS:

West Virginians for Better Transportation
Greater Greenbrier Chamber of Commerce
Tau Beta Pi

SPECIALTIES:

- Final bridge design
- Bridge hydraulics & hydraulics for flood analysis
- Permitting necessary for bridges (causeway, cofferdam, and temporary bridge hydraulic analysis)
- Temporary Shoring and Bracing Plans
- Bridge Demolition and Erection plans
- Microstation & HEC-RAS

L.A. Gates Company
Engineers & Consultants

Amelia is an experienced Structural Engineer having worked on various bridge projects in the private sector as well as at the West Virginia Department of Transportation where she worked as Bridge Design Engineer for District Nine in Lewisburg, WV. Amelia is experienced in plan review, bridge hydraulics, abutment design, foundation design, pile design, retaining wall design and steel beam design. Amelia is experienced in various aspects of bridge construction engineering such as temporary shoring, bracing, decking, demolition and erection plans. She is proficient with Microstation CAD software, HEC-RAS hydraulic analysis software, GawacWin gabion retaining walls design software, GRLWEAP pile driving analysis software, Microsoft Word and Microsoft Excel.

REPRESENTATIVE PROJECTS:

Bridges

- *Big Rock Bridge, Mingo County*
- *Kirk Bridge, Mingo County*
- *Teter Creek Slab Bridge, Barbour County*
- *Camp 29 Bridge, Nicholas County, WV-Erection Plan and Decking Plan*
- *Carters Creek Bridge, Nicholas County, WV-Demolition Plan and Temporary Bridge Plan*
- *Chesapeake Bridge, Kanawha County, WV-Decking Plan*
- *Dunloup Bridge #7, Fayette County, WV-Abutment Redesign, Demolition Plan and Erection Plan*
- *East Kingston Arch, Fayette County, WV-Demolition Plan and Erection Plan*
- *Ethel Slab Bridge, Logan County, WV-Decking Plan, Erection Plan, and Temporary Bracing Plan*
- *Fields Creek Bridge, Kanawha County, WV-Temporary Bridge Plan, and Demolition Plan*
- *First Slab Bridge, Randolph County, WV-Demolition Plan, Erection Plan, and Temporary Bracing Plan*
- *Five Mile Road Bridge, Kanawha County, WV- Demolition Plan, and Temporary Bridge Plan*
- *Granny Creek Bridge, Roane County, WV-Demolition Plan, and Erection Plan*
- *Grassy Creek Bridge, Webster County, WV-Temporary Bridge Plan, and Demolition Plan*
- *Gum Bridge, Randolph County, WV-Temporary Bridge Plan*
- *Hampton Truss, Upshur County, WV-Cofferdam Design, Demolition Plan, Erection Plan, and Temporary Bracing Plan*
- *Hemlock Bridge, Jackson County, WV- Demolition Plan and Erection Plan*
- *Huff Creek Bridge, Wyoming County, WV-Demolition Plan, and Temporary Bridge Plan*
- *Lochgelly Road Interchange Bridge, Fayette County, WV-Erection Plan*
- *Little Grassy Creek Bridge, Webster County, WV-Temporary*

Amelia McClure, P.E.
Structural Engineer
17 Years Experience

-Continued-

Bridge Plan, and Demolition Plan
- *Little Sandy Arch, Preston County, WV -Temporary Shoring Plan*
- *Peachtree Girder Bridge, Raleigh County, WV-Temporary Bridge Plan, Demolition Plan, and Erection Plan*
- *Pettry Bottom Bridge, Raleigh County, WV-Demolition Plan*
- *Reader Creek Bridge, Wetzel County, WV-Decking Plan, Wave Equation Analysis, Erection Plan, and Demolition Plan*
- *Rolfe Arch, Marion County, WV-Demolition Plan*
- *Rosebud Bridge, Harrison County, WV-Temporary Bridge Plan, Demolition Plan*
- *Scott Slab Bridge, Harrison County, WV-Temporary Bracing Plan, Decking Plan, and Erection Plan*
- *Ward Bridge, Kanawha County, WV-Temporary Bridge Plan*
- *Winifrede Railroad Overpass, Kanawha County, WV-Demolition Plan, Erection Plan, Temporary Bracing Plan, and Temporary Shoring Plan*
- *Walnut Hill Bridge Replacement, Greenbrier County, WV-Permits, Design and Plans for Construction*
- *Canterbury Road Bridge Replacement, Fayette County, WV-Permits, Design and Plans for Construction*
- *Rock Camp Run Bridge Replacement, Nicolas County, WV-Permits, Design and Plans for Construction*
- *Sawbones Bridge Replacement, Monroe County, WV-Permits, Design and Plans for Construction*
- *Canvas Bridge Deck Repair, Nicolas County, WV- Design and Plans for Construction*
- *Harts Run Bridge Deck Repair, Greenbrier County, WV-Design and Plans for Construction*

Civil/Site
- *Greenbrier Summit Village Subdivision Plan Review, Greenbrier County, WV*
- *Stoney Glen Subdivision Plan Review, Greenbrier County, WV*
- *Dawson Lake Subdivision Plan Review, Greenbrier County, WV*
- *River Cliffs Subdivision Plan Review, Greenbrier County, WV*

L.A. Gates Company
Engineers & Consultants

Robert W. Rector

Cad Technician
27 Years Experience

EDUCATION:

Woodrow Wilson High School - Graduated 1986; completed a two-year course in drafting at Raleigh County Vocational School in Beckley, WV.

West Virginia Institute of Technology - Graduated 1988; completed a two-year AS degree in Drafting & Design Engineering Technology.

SPECIALTIES:

- Proficient Cad Technician
- Develop construction documents for the various disciplines including: Roadway, Bridge, Sewer, & Water,
- Architectural/Structural and Site Development
- Quantities and calculations for Structural projects

L.A. Gates Company
Engineers & Consultants

Robert's background consists of a wide range of experience in the development of construction documents, both board and CADD practices. With 24 years with Gates, Robert's responsibilities consist of drafting and coordinating with the various disciplines such as civil, architectural and structural projects. His duties also include the production of plans for bridge and roadway projects including calculations and quantity estimates.

REPRESENTATIVE PROJECTS:

Highway

- *Coalfields Expressway, Raleigh County, WV*
- *East Beckley Bypass, Raleigh County, WV*
- *Stollings - Logan Road, Logan County, WV*
- *WV Route 10, Man to Logan, Logan County, WV*
- *Sutton-Webster Springs Road, Braxton and Webster Counties, WV*

Bridges

- *Big Rock Bridge, Mingo County*
- *Kirk Bridge, Mingo County*
- *Teter Creek Slab Bridge, Barbour County*
- *State Fair Pedestrian Underpass, Greenbrier County, WV*
- *Pleasant Dale Bridge, Hampshire County, WV*
- *Henlawson Bridge, Logan County, WV*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Huff Creek Bridge, Wyoming County, WV*
- *South Mineral Wells Interchange, Wood County, WV*
- *Bradshaw Bridge, McDowell County, WV*
- *Bruno Bridge, Logan County, WV*
- *Main Street Bridge, Wetzel County, WV*
- *Shepherd Bridge, Marshall County, WV*
- *Grafton High School Arch Bridge, Taylor County, WV*
- *US 220 Ramp Connector Bridge, Hardy County, WV*
- *Greenbrier Avenue Bridge, Greenbrier County, WV*
- *Russellville Bridge, Greenbrier County, WV*
- *Cranberry Creek Bridge, Raleigh County, WV*
- *Switzer Monty Brothers Bridge, Logan County, WV*
- *Guyandotte River Bridge, Logan County, WV*
- *WV Route 17 Connector Bridge No. 4, Logan County, WV*
- *Muddy Creek Bridge, Greenbrier County, WV*
- *Camden on Gauley Bridge Replacement, Webster County, WV*
- *Steinbeck Bridge Replacement, Roane County, WV*
- *Roach Truss Bridge Replacement, Cabell County, WV*
- *Kenna I/C Bridge #2179, Jackson County, WV*
- *Grass Lick Creek, Bridge #2199, Jackson County, WV*
- *Grass Lick Road, Bridge #2198, Jackson County, WV*
- *Rock Lick Bridge, Boone County, WV*
- *James Branch Bridge, Boone County, WV*
- *Cazy Bridge, Boone County, WV*
- *B&O Railroad Underpass Bridge, Barbour County, WV*

Robert W. Rector

Cad Technician

27 Years Experience

- Continued –

- *Boulder Truss Bridge, Barbour County, WV*

Architectural

- *Beckley State Police and DMV Building, Beckley, WV*
- *Raleigh County Junior High School, Beckley, WV*
- *New River Birthing Center, Scarbro, WV*
- *Clarksburg Center of Fairmont State College, Clarksburg, WV*
- *College of West Virginia Library, Beckley, WV*
- *College of West Virginia building additions, Beckley, WV*
- *Pinecrest Multi-purpose Building, Beckley, WV*
- *Clarksburg Federal Building, Clarksburg, WV*
- *Hospice House of Southern WV, Beckley, WV*

Water and Sewer

- *Wastewater Treatment Plants for Watoga, Bluestone, Babcock, Twin Falls, and Pipestem State Parks.*
- *Cool Ridge/Flat Top Wastewater Collection & Disposal Project*
- *Airport Road/The Oaks Sanitary Sewer Extension Project*
- *Pluto Road Sanitary Sewer Extension Project*
- *Jolo/Paynesville Water System Extension*
- *Little Beaver Interceptor Sewer Pump Station & Force Main Project*

Site Development

- *Petersburg Main Post Office - Site and utility design*
- *Clarksburg GSA Federal Building - Site design*
- *Raleigh County Public Library - Site development for new parking area*
- *Princeton Main Post Office - Site and utility design*
- *Beckley State Police and DMV Building - Site and utility design*

L.A. Gates Company
Engineers & Consultants

TRIAD ENGINEERING, INC.

Joseph Young, RLA

Senior Landscape Architect

Education

BSLA, Landscape Architecture, West Virginia University

Professional Experience

24 Years

Registrations & Licenses

- Registered Professional Landscape Architect, WV, KY & OH

Skills

- Site Inventory and Analysis
- Program Production
- Conceptual Design
- Master Planning

Highlights of Experience

Mr. Young currently serves as Senior Landscape Architect for the Southwestern Region of Triad Engineering, Inc. In this capacity, he provides clients with a variety of landscape architectural services including site inventory and analysis, program production, conceptual design, design development, high quality graphic presentations, project management, construction document preparation and construction administration. In this capacity, Mr. Young brings years of experience on a diverse range of projects covering all aspects of landscape architectural design and planning in both the public and private sector. Mr. Young's experience includes park and streetscape design, resort and campus master planning, subdivision layout, landscape and hardscape design, landscape design, grading and earthwork calculations, construction detailing, specifications, and estimating. Mr. Young also performs Project Management on related projects, and has been involved in planning projects for national and international military bases, pocket parks, 5,000 acre reserves, large downtown streetscapes, subdivision layout and design, and campus master plans for many college and universities.

Relevant Project Experience

Washington Nile Local School District, West Portsmouth, OH
Mr. Young oversaw the site civil landscape work for the development of a middle school on an existing high school and elementary site. The new addition occupies the area now that was being used as a football practice field and open play area. The site needed to be raised 13 feet so that it would no longer be in the Ohio Rivers flood plain. Site features included the development of a new circulation and parking system, the placing of the building for appropriate sun orientation, pedestrian circulation around the site, utility design and an extensive storm water management system. The project is a LEED registered project that achieved a Silver Certification. Triad worked with a project team headed by the architect and owner, to develop a complete comprehensive set of construction documents.

Clay Local School District, Portsmouth OH
The project consists of the development of an existing high school site into a K-12 school site with the addition of the middle and elementary schools . The new addition occupies the area now being used as student and faculty parking area. Site features included the development of a new circulation and parking system, the development of age appropriate play areas, outdoor learning areas, outdoor courtyard area, pedestrian circulation around the site, utility design and a storm water management system. This project is a LEED registered sustainable project.

Portsmouth high School Athletic Complex, Portsmouth, Ohio
Mr. Young over saw the Site Civil and Landscape Architecture work for this 35 acre development in downtown Portsmouth Ohio. The project involved the planning, and design and preparation of construction documents for a football stadium, baseball field, softball field, tennis courts, outdoor basketball courts, dedicated running track, open green space, parking areas and an extensive underground storm water detention system to meet the stringent standards of the City of Portsmouth.

King's Daughters Medical Center, Ashland, KY
This project consisted of site civil engineering services as well as landscape architectural services for multiple Medical Office Buildings in Southern Ohio and Eastern Kentucky. Mr. Young worked with a project team headed by the Architect and the owner, to develop a complete comprehensive set of construction drawings. This projects involved optimizing the available properties to

accommodate the medical office buildings and parking areas that improved circulation on the site to allow for a patient drop-off area at the front of the buildings. Services provided by included preparation of construction documents and details including site grading and drainage features, landscaping to compliment the architecture of the buildings and local and state permits.

St. Mary's Medical Center, Boiler Plant, Huntington, WV
Mr. Young over saw the Site Civil and Landscape Architecture work the development of the new Boiler Plant on the Main Campus. The project involved the planning, and design and preparation of construction documents for the, parking area, outdoor storage area, utilities, storm water design and landscape screening
to meet the requirements of the City of Huntington as well as the adjacent neighbors.

St. Mary's Medical Center, Huntington, WV
Teaming with a local architect to provide a comprehensive plan for the future development of St Mary's Medical Center campus, Mr. Young oversaw the planning for this project which included the realignment of roads and parking areas to improve vehicular and pedestrian circulation. The plan also included the development of a green space system that allows patients, visitors and employees to walk from building to building with minimal vehicular conflicts. One of the key elements of the project was reducing the amount of paved area on campus. The reduction of paved area will reduce the amount of storm water entering the city's combined system. A portion for the parking lot will incorporate a pervious pavement system that will further reduce the storm water impact on the local system.

Sacred Heart Pavilion, Diocese of Wheeling-Charleston, Charleston, WV
This project consisted of site civil engineering services as well as landscape architectural services for Daycare and Gymnasium building in downtown Charleston, WV. This projects involved optimizing the available properties to accommodate the building, parking area, and a synthetic turf play area for the daycare. The design also needed to allow for a drop-off area at the front of the building. Services provided by included preparation of construction documents and details including site grading and drainage features, landscaping to compliment the architecture of the buildings and local and state permits.

Oak Hill high School Baseball and Softball Complex, Oak Hill, Ohio
Mr. Young over saw the Site Civil and Landscape Architecture work for this 10 acre development on the campus of Oak Hill High School in Oak Hill, Ohio. The project involved the planning, and design and preparation of construction documents for a baseball field, softball field, tennis open green space, parking areas and an extensive underground storm water detention system, synthetic turf baseball infield, and irrigation for both facilities.

Huntington Pediatric Dentistry and Orthodontics, Huntington, WV
Triad Engineering, Inc. teamed with the Huntington Pediatric Dentistry's Architects / Contractor to provide a comprehensive set of construction plans for the development of the new Huntington facility in Kinetic Park. Mr. Young served as project Landscape Architect and helped guide the team with the development of the parking, vehicular and pedestrian circulation, utilities, storm water design and landscaping to meet the requirements of the Kinetic Park and the City of Huntington.
development consists of apartments, townhouses and condominiums, state-of-the-art 6500 sq. ft. clubhouse as well as swimming pools, Jacuzzis, sport courts, tot lots, and dog exercise areas. This project includes grading, drainage, permitting, parking lot design, as well as many other aspects.

Triangle Transit Authority (TTA)-Raleigh, Durham, Chapel Hill Triangle Area of North Carolina
Regional Transit Plan – Phase I Regional Rail – Durham to North Raleigh
As Surveyor-of-Record / Data Analyst, provided direct supervision of various field crews and CAD technicians for Subsurface Utilities Engineering location surveys and gravity utilities mapping for a 40 mile railway corridor in support of design efforts for a regional rail service route. Field work and deliverables preparation were conducted in accordance with Federal Railway Administration, CSX Railroad, NC Railroad, and North Carolina Department of Transportation Rail Division specifications and guidelines. Being a controversial project, construction is still pending with a capital cost estimate of $754 million.

Raleigh-Durham Airport Authority (RDUAA)-Morrisville, North Carolina
Professional Services 2000-2003 / Construction completed & ongoing
Surveyor-of-record for long-term on-call contract to provide professional services to the Raleigh Durham Airport Authority providing, boundary surveys, topographic location, as-built surveys, subsurface utilities location, construction verification and construction layout for various on-site improvement and expansion projects. Provided coordinative support/project management for various design and engineering firms for the development of the RDU Airport Authority's Master Plan for future development and improvement of RDU International Airport. As one of the few non-employees to ever be granted limited movement privileges at RDU, coordinated airside survey operations (night-time and day-time conditions) with Ground Traffic Controller and FAA personnel on-site.

TRIAD ENGINEERING, INC.

Lloyd Kirk, PS

Surveyor Supervisor

Professional Experience
26 years

Registrations
- Licensed Professional Surveyor-WV & NC
- FEMA Certified Flood Plain Surveyor

Skills Highlights
- Construction Layout
- Right of Way Plans
- Photogrammetric and Topographic Surveying
- Mine Surveying
- Civil Engineering
- Environmental Assessments

- **Professional Affiliations**
- WV Society of Professional Surveyors
- National Society of Professional Surveyors

Highlights of Experience

Mr. Kirk is currently the Survey Supervisor for the St. Albans office of TRIAD. In this capacity, he is responsible for the supervision of the survey crews, overseeing the field work through drafting to the finished product delivered to the client, meeting with clients, and performing field work on large and complex projects. Mr. Kirk is experienced in, construction layout, boundary and road work surveying, photogrammetric and topographic surveying. He has supervised and/or performed survey work on various types of work including surface mine surveying for coal mine facilities, site surveys and construction layout for landfill facilities, site surveys and right of way plans for WVDOH and NCDOT highway projects, and site surveys and construction layout for site development projects. Mr. Kirk has been involved in survey projects in several states including West Virginia, South Carolina and North Carolina.

In his supervisory capacity, he is responsible for schedules, project budgets, and the overall coordination of all survey projects. He works with all levels of engineering staff, the overall project team, and the project owner to produce a quality work product which satisfies all project requirements.

Relevant Project Experience

***City of Raleigh**-Raleigh, North Carolina*
Buffalo Road Sanitary Sewer Collector Easement Acquisition Survey
As Surveyor-of-Record, provided direct supervision of various field crews and conducted field surveys for right-of-way acquisition, topographic location, and wetlands delineation surveys for an approximately 6000 LF sanitary sewer line. Project consisted of field work necessary to compile and prepare recordable plats of survey for easement acquisition by the City of Raleigh. Topographic mapping for design purposes, and the preparation of Wetlands Delineation Maps to secure 404(c) permits through the US Army Corps of Engineers (Wilmington District).

***North Carolina Department of Transportation**-Warren County, North Carolina*
State Route 1608 – Will Cheek Road
State Route 1620 – Sherriff Davis Road
As Surveyor-of-Record / Data Analyst contracted to NCDOT, provided direct supervision of various field crews and conducted field surveys for right-of-way acquisition and topographic location surveys for roadway improvements. Project consisted of field surveys conducted per Federal Highway Administration High Risk Rural Roads specifications for approximately 3.5 miles of local rural roads in Warren County NC including deliverable plan sets prepared per NCDOT/NC MAPS specifications. Final field work consisted of setting Right-of-Way monumentation and staking of best-fit centerline of road alignment.

***North Carolina Army National Guard**-Morrisville, North Carolina*
Professional Services 2005 / Construction Completed
Surveyor of Record / Field Supervisor providing construction staking and layout of Crash, Fire and Rescue (CFR) Facilities Building supporting the 1st of 130th Aviation Battalion (AH-64 Apache Helicopter unit) based at Raleigh Durham International Airport. Operations were conducted in close coordination with Federal Aviation Administration and NC National Guard personnel to provide layout services for the construction of an approximately $1.3 million facility.

TRIAD ENGINEERING, INC.

Danny Lipscomb, PE

Geotechnical Project Manager

Education

Fairmont State College, WV. BS. Civil Engineering

Professional Experience

11 Years

Registrations & Licenses

- Registered Professional Engineer, WV

Skills

- Geotechnical Evaluations
- Energy Sector
- Environmental Assessments
- Permitting
- Construction Materials Testing and Inspections

Highlights of Experience

Mr. Lipscomb is currently a Project Engineer at the St. Albans branch of TRIAD. In this capacity, he has been involved in development and management of subsurface exploration projects and development of geotechnical engineering reports providing recommendations based on field observations and laboratory results for bearing capacity, earthwork operations, earthen dam embankments, slope stability, flexible and rigid pavement design, lateral earth pressures, sinkhole remediation, geophysics (electrical resistivity and ground penetrating radar), and rock excavation. These projects have included freshwater dams, shopping centers, roadway/bridges, buildings, retaining walls, residential communities, water storage tanks, waste water treatment facilities, and structures for coal mining facilities. Duties included assignment of laboratory testing, visual inspection of soil/rock specimens, geophysics, and earthen embankment evaluation. Mr. Lipscomb has additional experience in areas relating to civil site design, hydrologic and hydraulic design, grading plans, water line plans, sewer line plans, hydraulic calculations, storage tank sizing, booster station design, roadway layout and design, storm water management plans, technical specifications, environmental and regulatory permitting, blast monitoring, and construction quality control.

Relevant Project Experience

East Beckley Bypass-Rural Acres Drive to Stanaford Road, Raleigh County, West Virginia
As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in the design of cut and fills slopes, performed settlement calculations for embankment fills, estimated shrink/swell factors for excavated materials, and tabulated probable sources of select embankment. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

East Beckley Bypass-Stanaford Road to Industrial Drive, Raleigh County, West Virginia
As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in the design of cut and fills slopes, performed settlement calculations for embankment fills, estimated shrink/swell factors for excavated materials, and tabulated probable sources of select embankment. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Yon Peraldo Memorial Bridge Mercer County, West Virginia
As a Project Manager and Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Hen Lawson Bridge West Virginia
As a Geotechnical Engineer on this project, Mr. Lipscomb participated on all geotechnical aspects of the thru truss bridge project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design

parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Hurricane Creek Bridges Wayne County, West Virginia
As a Project Manager and Geotechnical Engineer on this design/build project, Mr. Lipscomb participated on all geotechnical aspects of this multiple bridge project including developing a boring layout based on the project cross-sections provided by the client. His work included supervision of work of field inspectors during the subsurface investigation. Mr. Lipscomb participated in providing recommendations and design parameters for alternate deep foundation types. He also provided foundation recommendations and bearing capacity computations for each of the bridge abutments and piers.

Subsurface and Foundation Investigations (WV, VA, MD, KY, and OH)
Mr. Lipscomb has performed subsurface and foundation investigations for various private business and industrial firms. The projects consisted of performing subsurface investigations and analysis and recommending appropriate foundation types based on the results of the subsurface investigation. The projects also involved estimating potential settlement, delineating potential subsurface problems, and providing related recommendations regarding the geotechnical aspects of the projects. A geotechnical report was prepared and provided to the client for each project. Mr. Lipscomb has also designed foundation systems for buildings and other structures.

Dominion Transmission, Inc. (Chelyan, West Virginia)
As project engineer, Mr. Lipscomb processed information gathered during drilling activities and developed a report of subsurface exploration to aid in the design of a horizontal directional drilling project under the Kanawha River in Kanawha County, West Virginia. This included providing rock core unconfined compression test results, and performing a review of rock core samples to observe their Mohs Scale of Mineral Hardness values. Regional geologic information was also given to aid in the project's design.

United Coal Company (Crab Orchard, West Virginia)
As project engineer, Mr. Lipscomb performed geotechnical analysis of the site subsurface conditions and provided foundation recommendations for new coal preparation plant components planned to improve an existing facility. New coal preparation plant components included in the project consisted of a main coal preparation plant building, a raw coal reclaim tunnel, raw and clean coal stock piles (including stacker tubes), a loadout unit, and a refuse bin. Mr. Lipscomb recommended the use of cast-in-place concrete caissons for the majority of the proposed components due to underlying fill of unknown origin and variable content. Cast-in-place concrete caisson design parameters were provided for each of the proposed components, and spread foundation design parameters were provided for the refuse bin as an alternative to cast-in-place concrete caissons.

Putnam County Schools (Putnam County, West Virginia)
Mr. Lipscomb served as the project engineer for the subsurface exploration at multiple Putnam County School projects. His responsibilities on the projects included scheduling and coordination of drilling activities, oversight of assignment for laboratory analysis of soil samples collected during drilling activities, developing boring logs, performing estimated settlement calculations, developing foundation recommendations, and composing a report of subsurface exploration for the individual projects.

Water Distribution System Upgrades (Boone, Wayne, Berkley, Lincoln, and Logan Counties, West Virginia)
Mr. Lipscomb has served as the project engineer for the detailed design of over 30 miles of water line extensions and associated appurtenances, including the preparation of construction drawings, water storage tank sizing and design, booster station design, hydraulic calculations, technical specifications, cost estimates, contractor's bid documents, review and recommendation of contractor's bids, and review of shop drawings.

Civil/Site Design Projects (West Virginia, and Virginia)
Mr. Lipscomb has civil/site design experience related to the development of grading plans, cut/fill analysis, utility design/layout, hydrological analysis, hydraulic evaluations of open channel flow systems, storm sewer design, stormwater retention/detention design, sediment control structure design, preparation of permit applications, and consulting with clients, architects, regulatory agencies, and municipalities.

RELATED PRIOR EXPERIENCE

Federal Express Ground Distribution Center
Cross Lanes, WV

Project Description:

The project consisted of a distribution facility for Federal Express. The site was constructed on a vacant 10 acre lot located at the SW corner of the intersection of Donald Karnes Blvd. and J.W. Drive in Cross Lanes, WV. The site is located outside the Nitro City Limits and was under the jurisdiction of Kanawha County Planning Commission.

In order to facilitate the increased truck traffic to the facility, the project also consisted of upgrading the existing public roads to the site.

Triad worked for multiple clients on this project. Services provided by Triad for this project consisted of full site civil design services for the site and access road, geotechnical investigation, construction layout and quality control testing and inspection services during construction.

Clients

Cooper Construction – Birmingham, Alabama
Jackson Taylor Contractors – Mentor Ohio
SOLCO – Charleston, WV

RELATED PRIOR EXPERIENCE

Devonshire Development
Scott Depot, WV

Project Description:

TRIAD provided full civil engineering services including site development design for this project. The project consisted of the construction and site development for a large luxury mixed used residential development located in Scott Depot, West Virginia. The development which encompasses approximately 110 acres will ultimately have 532 luxury apartments, 174 townhouses, 72 condominiums and 59 single family patio homes. The development also includes a 6,500 square feet clubhouse, resort style pool, play grounds and sport courts. TRIAD worked with a project team consisting of the architect and developer, to create a complete, comprehensive set of construction drawings. Site features included concrete and asphalt paving, sidewalks, curb and gutter, site utility routing, drainage structures, and storm water management features.

Services provided by Triad consisted of, field surveying to generate a map of existing site and topographic features, geotechnical investigations to determine subsurface conditions to facilitate design of the building foundations and associated site work, design of all site grading and drainage features and storm water management features, and preparation of West Virginia Division of Highways (WVDOH) encroachment permit and West Virginia DEP construction storm water permits. The permitting phase of the project also included close coordination with the Putnam County, West Virginia Planning Commission to obtain building permits and certificates of occupancy. Triad also performed construction administration services on this project including full time inspection, construction documentation, pay estimate review, and Owner / Contractor coordination.

Client

Cathcart Properties, Inc.

RELATED PRIOR EXPERIENCE

Boone Memorial Hospital
Madison, WV

Project Description:

The project consists of the construction of a new Boone Memorial Hospital located at 701 Madison Avenue, Madison, WV. The project includes the design and construction of a new two story hospital building with associated parking lots and access drives.

Services provided by Triad consisted of field surveying to generate a map of existing site and topographic features, design of all site grading and drainage features and storm water management features, and preparation of West Virginia Division of Highways (WVDOH) encroachment permit and West Virginia DEP construction storm water permits.

Client

Kreps and Zachwiega
Charleston, WV

RELATED PRIOR EXPERIENCE

Commerce Park Mixed Use Development
Huntington, WV

Project Description:

The project consisted of the development of an existing industrial site into a multi-use site consisting of multi-family housing, flex space warehousing, and future retail. The existing site consisted of an approximately 12 acre industrial site which has had many uses since it's initial development in 1926, ranging from glass product manufacturing to various other uses including heavy equipment manufacturing, metal fabrication, machine and welding shop, and various industrial truck repair and maintenance operations.
TRIAD initially conducted an extensive Site Characterization under the West Virginia Voluntary Program (WVVRP). The site was parceled to allow for the use of differing redevelopment land-use scenarios. Certificates of Completion (COCs) have been issued by the WVDEP, OER for all three parcels at the site.

TRIAD provided full civil engineering services including site development design during development for this project. The project consisted of the construction and site development for mixed residential and commercial use. The residential development consisted of a 6 acre site including 7 buildings with a total of 52 housing units. The commercial development consisted of an additional 6 acres for a flex space warehouse and future retail out parcels. TRIAD worked with a project team consisting of the architect and developer, to develop a complete comprehensive set of construction drawings. Site features included concrete and asphalt paving, sidewalks, curb and gutter, site utility routing and drainage structures.

Services provided by Triad consisted of a phase I environmental site assessment to determine past site usage regarding any environmental concerns, field surveying to generate a map of existing site and topographic features, a geotechnical investigation to determine subsurface conditions to facilitate design of the building foundations and associated site work, design of all site grading and drainage features, and preparation of West Virginia Division of Highways (WVDOH) encroachment permit and West Virginia DEP construction storm water permits.

Client

Structures Resources, Inc.
Huntington, WV

RELATED PRIOR EXPERIENCE

King's Daughter Medical Center
Ashland, Kentucky

Project Description:

Triad provided site civil engineering services as well as landscape architectural services for the King's Daughters Medical Center Campus in Ashland, Kentucky. Triad worked with a project team headed by the Architect and the owner, to develop a complete comprehensive set of construction drawings for 4 new buildings sites. The projects involved optimizing the available property to accommodate the new buildings and parking areas and the improvement of pedestrian and vehicular circulation. The projects included the development of pedestrian spaces, for the patients and visitors which features plant massings, water features, sculptures and other site amenities.

Services provided by Triad included preparation of construction documents and details including site grading and drainage features, landscaping to compliment the architecture of the building.

Owner

Kings Daughter Medical Center
Howard Harrison, Director of Facilities

RELATED PRIOR EXPERIENCE

Huntingtonized Federal Credit Union
Milton, West Virginia

HUNTINGTONIZED
FEDERAL CREDIT UNION

Project Description:

TRIAD provided full civil engineering design services for this design/build commercial development project. The project consisted of the construction and site development for a credit union facility in Milton, WV. TRIAD worked with a project team consisting of the architect, contractor, and owner's representatives to develop a comprehensive site design and construction drawing package. Site features included concrete paving, sidewalks, curb and gutter, and storm water management system.

As with all projects, this project was unique due to its location and positioning. Because the site was located within a flood sensitive area and suffered from space limitations, pervious pavers were utilized for storm water collection and management.

Services provided by Triad included full civil site design, geotechnical engineering and quality control testing and observation.

Client

Neighborgall Construction Company

SIMILAR PROJECTS
JFHQ Parking and Storage Area EOI Design Services
CEOI ADJ1700000001

Switchback – Maybeury Road

State Project No. X341-121-560 00
Raleigh County, WV

Study, design and prepare R/W and Construction Contact Plans for 400 feet of slide repair along US Route 52 in McDowell County. The project include the design of an innovative moment slab.

LAG Project No.: 10111.930
Estimated Construction Cost: $684,600

Allen Creek – Big Ridge (Coalfields Expressway)

State Project No. X341-121-2.50
Raleigh County, WV

Study, design and preparation of Construction Contact Plans and related documents for a 3-mile portion of the Coalfields Expressway, a four-lane facility with a 46' median and a design speed of 65 miles per hour.

LAG Project No.: 10104.055
Estimated Construction Cost: $32.8 Million

East Beckley Bypass

State Project No. U341-19-14.47 00
Raleigh County, WV

Study, design, and preparation of construction contract plans and related documents for a 3.7 mile segment of the East Beckley bypass, a five lane commercial road spanning from the I-64 East Beckley Interchange to CR8 Ragland Road. The project includes a major bridge over 1200 feet long spanning Cranberry Creek.

LAG Project No.: 10111.829
Estimated Construction Cost: $ 79.5 Million

Stollings - Logan Road

State Project S323-10-19.39 00
Logan County, WV

Study, design, and preparation of construction contract plans and related documents for a segment of WV 10 beginning on the west side of the Guyandotte River approximately 1.0 mile south of Logan Boulevard and extending northward to Logan Boulevard, and for a connector from WV 10 to WV 17 and existing WV 10 across the river at Stollings. The project includes a bridge on the connector spanning the Guyandotte River, existing WV 10 and the railroad, a bridge on the relocation of existing WV 10 over the railroad and Dingess Run, a sideroad bridge on Dingess Run, and a mainline bridge over the river near the end of the project. The mainline will be a four-lane facility with a 46' median and a design speed of 65 miles per hour.

LAG Project No.: 10111.778
Estimated Construction Cost: $63,600,000

White Sulphur Springs Interchange

State Project No. X341-121-560 00
Raleigh County, WV

Study, design and prepare R/W and Construction Contact Plans for a new interchange on the east end of White Sulphur Springs.

LAG Project No.: 10111.930
Estimated Construction Cost: $14.9 Million

Slab Fork – Surveyor Creek Road (Coalfields Expressway)

State Project No. X341-121-560 00
Raleigh County, WV

Study, design and preparation of R/W documents and Construction Contact Plans for a 2-mile portion of the Coalfields Expressway, a four-lane facility with a 46' median and a design speed of 65 miles per hour.

LAG Project No.: 10111.930
Estimated Construction Cost: $26.7 Million

Hurricane Creek Road +1

State Project No. U340-34-10.20
Putnam County, WV

Preparation of contract plans for five lane improvement of Putnam County Route 19 at the I-64 Hurricane Interchange and widening of West Virginia Route 34, totaling 0.8 miles.

LAG Project No.: 10111.752
Construction Cost: $5.8 Million

Kanawha Street Improvements

State Project No. U341-210-2.82
Raleigh County, WV

Study, design, and prepare construction contract plans and related documents to improve a turning radius and extend a turning lane at the junction of WV 210 (Kanawha Street) and WV 16 (Robert C. Byrd Drive).

LAG Project No.: 10111.795
Estimated Construction Cost: $100,943

Locust Drive

State Project No. U328-219/13-0.01 00
Mercer County, WV

Study, design, and prepare construction contract plans and related documents for improvements to Mercer County Route 219/13 for a distance of approximately 0.25 mile.

LAG Project No.: 10111.797
Estimated Construction Cost: $353,819

Stafford Drive

State Project U328-104-0.74 00
Mercer County, WV

Study, design, and prepare construction contract plans and related documents to widen WV 104 (Stafford Drive) and add an overhead sign to accommodate the additional left turn lane.

LAG Project No.: 10111.796
Estimated Construction Cost: $195,116

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: _____

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)

[x] Addendum No. 1	[ ] Addendum No. 6
[ ] Addendum No. 2	[ ] Addendum No. 7
[ ] Addendum No. 3	[ ] Addendum No. 8
[ ] Addendum No. 4	[ ] Addendum No. 9
[ ] Addendum No. 5	[ ] 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.

LA Gates Company
Company

William B. Coston
Authorized Signature

August 18, 2016
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

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

(Name, Title)
William B. Keaton, P.E., Director Municipal Services

(Printed Name and Title)
2302 South Fayette Street, Beckley, WV 25801

(Address)
304-256-1640/304-256-1617

(Phone Number) / (Fax Number)
wkeaton@lagates.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

L.A. Gates Company
(Company)

William B. Keaton - William Keaton - Director-Municipal Services
(Authorized Signature) (Representative Name, Title)

William B. Keaton, P.E., Director Municipal Services
(Printed Name and Title of Authorized Representative)

August 18, 2016
(Date)

304-256-1640/304-256-1617
(Phone Number) (Fax Number)

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 exceed 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: L.A. Gates Company - William B. Keaton, P.E., Director Municipal Services

Authorized Signature: William B. Keaton Date: August 17,2016

State of West Virginia

County of Raleigh, to-wit:

Taken, subscribed, and sworn to before me this 17 day of August, 2016

My Commission expires February 1, 2023

AFFIX SEAL HERE

NOTARY PUBLIC Angela S. Riffe

NOTARY PUBLIC OFFICIAL SEAL
ANGELA S RIFFE
State of West Virginia
My Comm. Expires Feb. 1, 2023
140 Bobcat Lane
Beaver, WV 25813

L. A. GATES COMPANY

ENGINEERS AND CONSULTANTS

L. A. GATES, P.E.
PRESIDENT

J.W. CANTLEY, JR., P.E., P.S.
EXECUTIVE VICE PRESIDENT

GARY J. KEATON, P.E.
VICE PRESIDENT -
NATURAL GAS ENGINEERING

DON CRUSAN
VICE PRESIDENT -
FACILITY ENGINEERING

NOEL S. RIFFE
VICE PRESIDENT -
FINANCE & ADMINISTRATION

August 18, 2016

Bid Clerk
Department of the Administration
Purchasing Division
2019 Washington Street, SE
Charleston, WV 25305

Re: **Eleanor Armed Forces Reserve Center**
Engineering Services for an Emergency Generator Enclosure - CEOI ADJ1700000002 - Design Services

Dear Sir/Madam,

Please find enclosed our response to the Expression of Interest for engineering and architectural services for an Emergency Generator Enclosure. Our Project team is familiar with the area and facility and believes we are well suited to perform this important project.

We understand several important aspects of this project. They are as follows:

I. The enclosure will be approximately 400 sf.
II. A concrete slab on grade will be designed for a Waukesha Enginator Emergency Generator.
III. Electrical, mechanical and utilities will be included in the project.
IV. Exterior lighting may be part of the project and will be determined by the facilities management team.
V. Survey and Geotechnical engineering may be part of this project.
VI. Construction Administration and Bidding assistance may also be part of the project.
VII. The consultant will need to coordinate with the Eleanor and Putnam County during design and construction.

Our team is comprised of professional engineers and technicians from the L. A. Gates Company and Triad Engineering. The combination of our two teams makes us uniquely qualified to supply these services to the Facilities Manager. The following criteria make our team a good choice:

I. WV Firms with local offices in Saint Albans and Hurricane.
II. A vast range of experience with pavement design and planning.

III. We are able to supply all the aspects of technical support that this project may require to include civil engineering, electrical engineering, geotechnical engineering, site design and planning, survey and a strong project management program through diligent QC/QA.

Our proposal contains the following elements:

I. Cover Letter
II. Project Approach
III. Resumes of Key Project Team Members
IV. Similar Projects
V. Addendum Receipt Affidavit
VI. Certification

It should be noted that our team also has experience working on military facilities such as Quantico, Yeager Airfield, Radford Army Arsenal and Camp Dawson. We understand the precision of the Armed Forces. Our large amount of experience within the WV Government and other governmental agencies aids our work by knowing what the expectations of our clients will be.

We look forward to demonstrating these key elements to you. Should you have any questions please call our office at 304-256-1617.

Sincerely,

William B. Keaton, P. E.
Director – Municipal Services

Enclosure
WBK/wbk

Eleanor Armed Forces Reserve Center

Engineering Services for an Emergency Generator Enclosure - CEOI ADJ1700000002 - Design Services

Project Approach and Understanding

(Project Goal 4.1 – Provide Full Preliminary Design Services

- Task 4.1.1 Provide Full Design of Project
  - Provide design documents in the format stipulated by the Facilities Manager and the Army.
  - Designs may consist of civil, geotechnical and electrical drawings.
  - Drawings will be formatted for public bid and award according to Federal and State Regulatory requirements.
- Task 4.1.2 Specialized Services
  - Surveying services will be provided as part of the prescribed program.
  - Survey documents will tie into existing survey datum where available. If none is available a certified bench mark will be established.
  - Geotechnical design services that may include design of a retaining wall.
- Task 4.1.3 Deliverable
  - Project design drawings suitable for bidding and advertising will be provided. Five (5) hard copies and one digital copy will be provided.
- **Project Goal 4.2 and 4.3– Preparation of Documents and Bidding/Award Services**
- Task 4.2.1 Full Design Services
  - Full design services will consist of preparation and submittal of preliminary and final working drawings, specifications, design reports, operation and maintenance analysis, detailed cost estimates bidding and proposed construction schedules, survey materials, any geotechnical investigations.
- Task 4.3.1 Bid Phase Services
  - Services will include response to questions during bidding, preparation of any addenda during bidding, analyzing and evaluation of construction bids, recommendation of award of bid after review of contractor credentials and submittals and preparation of certified bid tabulation.
- Task 4.3.2 Deliverable
  - Bid Phase Documents including RFIs, Addenda, Certified bid tabulation and recommendation for award of contract.
- **Project Goal 4.4 – Construction Phase Services**
- Task 4.4.1 Construction Phase Services
  - Evaluation/Approval of shop drawings/materials/samples
  - Request for Information (RFI) and/or change order preparation generated for owners benefit
  - Evaluation of any change order requests as requested by contractor
  - Preparation of As-Constructed drawings (as-built drawings)

- Holding and Presiding over construction meetings
- Preparing Construction progress schedules and reports to Facility Manager/Army
- Providing meeting minutes to Facility Manager/Army during construction
- Preparation of punch list (final punch list) upon 90% completion of project.
- Certification of completion of project

❖ Task 4.4.2 Deliverable

- Construction documentation
- As-Constructed Drawings
- Project Certification Documentation