

# Technical Proposal

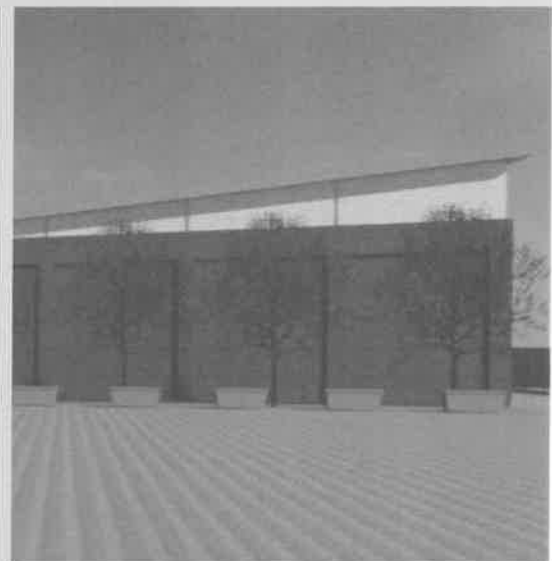
State of West Virginia CE01 0603 ADJ20000000009

## Buckhannon RC Phase II Addition

MAY 2020



 RECEIVED  
2020 MAY -5 AM 10:12  
WV PURCHASING  
DIVISION



  
RIOS WILLIAMS  
ARCHITECTS



SOUTHPOINTE - 2400 ANSYS DRIVE, SUITE 102  
CANONSBURG, PA 15317 - T: 724.809.3866  
www.rioswilliamsarchitects.com

May 5, 2020

Ms. Tara Lyle, Buyer Supervisor  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305-0130

**Re: Expression of Interest CEOI ADJ2000000009  
Buckhannon Readiness Center Phase II Addition  
929 Brushy Fork Road, Buckhannon, WV**

Dear Ms. Lyle:

Rios Williams Architects, P.C. (RWA) is pleased to present our proposal to the Department of Administration and to the WV Army National Guard for the professional design and construction administration services for the addition to the existing Readiness Center located at 929 Brushy Fork Road, Buckhannon, WV. This proposal is based on the CEOI issued on April 13, 2020.

The following information is provided:

- Section 1: Organizational Chart
- Section 2: Company Profiles
- Section 3: Detailed Resumes
- Section 4: Relevant Experience
- Section 5: Project Approach
- Section 6: Quality Control
- Section 7: Diversity Inclusive Plan
- Addendum Acknowledgment Form

RWA has compiled an extremely experience team of experts, with proven track records, to execute this important project. Our team comprised of RWA, H.F. Lenz, and T Construction, and Ackenheil Engineers have the capability to provide the required design and estimating services needed to achieve a successful project.

Thank you for your consideration of our submission. Please do not hesitate to contact me should you have any questions regarding our proposal or require additional information.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Lizette Rios-Williams'.

Lizette Rios-Williams, RA  
President  
Rios Williams Architects, P.C.



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

State of West Virginia  
 Centralized Expression of Interest  
 02 – Architect/Engr

Proc Folder: 713623

Doc Description: EOJ- Buckhannon Phase II Addition

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-04-13	2020-04-30 13:30:00	CEOJ 0603 ADJ2000000009	1

**BID RECEIVING LOCATION**

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

**VENDOR**

Vendor Name, Address and Telephone Number:

Rios Williams Architects, PC  
 2400 Ansys Drive, Suite 102  
 Canonsburg, PA 15317  
 p:724-809-3866

**FOR INFORMATION CONTACT THE BUYER**

Tara Lyle  
 (304) 558-2544  
 tara.l.yle@wv.gov

Signature  FEIN # 20-3310250 DATE 5/5/2020

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

**ADDITIONAL INFORMATION:****35% DESIGN AWARD PROCESS**

The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office, is soliciting Expressions of Interest from qualified firms to provide professional design services to develop construction documents to add an Addition to the Buckhannon Readiness Center, located in, Buckhannon, WV, per the attached documentation.

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		BUILDING TRADES SPECIALIST BUCKHANNON READINESS CTR 929 BRUSHY FORK RD	
CHARLESTON	WV25311	BUCKHANNON	WV 26201-2497
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI- Buckhannon Phase II Addition		

Comm Code	Manufacturer	Specification	Model #
31101508			

**Extended Description :**

EOI- Buckhannon Phase II Addition Design Services per the attached documentation.

<b>ADJ200000009</b>	<b>Document Phase</b> Final	<b>Document Description</b> EOI- Buckhannon Phase II Addition	<b>Page 3</b> <b>of 3</b>
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions



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

State of West Virginia  
 Centralized Expression of Interest  
 02 — Architect/Engr

Proc Folder: 713623

Doc Description: Addendum No. 1 - EOI - Buckhannon Phase II Addition

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-04-22	2020-05-05 13:30:00	CEOI 0603 ADJ2000000009	2

**BID RECEIVING LOCATION**

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

**VENDOR**

Vendor Name, Address and Telephone Number:

Rios Williams Architects, PC  
 2400 Ansys Drive, Suite 102  
 Canonsburg, PA 15317  
 p:724-809-3866

**FOR INFORMATION CONTACT THE BUYER**

Tara Lyle  
 (304) 558-2544  
 tara.l.yle@wv.gov

Signature X

FEIN # 20-3310250

DATE 5/5/2020

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

**ADDITIONAL INFORMATION:**

Addendum No. 1 issued to extend the bid opening from 04/30/2020 to 05/05/2020. The bid opening time remains at 1:30 pm.

No other changes.

\*\*\*\*\*

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81101508			

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**VENDOR**

Vendor Name, Address and Telephone Number:

Rios Williams Architects, PC  
 2400 Ansys Drive, Suite 102  
 Canonsburg, PA 15317  
 p:724-809-3866

**FOR INFORMATION CONTACT THE BUYER**

Tara Lyle  
 (304) 558-2544  
 tara.l.yle@wv.gov

Signature 

FEIN # 20-3310250

DATE 5/5/2020

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

**ADDITIONAL INFORMATION:**

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CHARLESTON	WV25311	BUCKHANNON	WV 26201-2497
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI- Buckhannon Phase II Addition	0.00000	

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description :**

EOI- Buckhannon Phase II Addition Design Services per the attached documentation.

**SOLICITATION NUMBER: CEOI ADJ2000000009**  
**Addendum Number: 1**

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The purpose of this addendum is to modify the solicitation identified as CEOI ADJ2000000009 ("Solicitation") to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Additional Documentation:**

1. The bid opening has moved from 04/30/2020 to 05/05/2020. Bid opening time remains at 1:30 pm.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CEOI ADJ2000000009**

**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 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.

Rios Williams Architects, PC

\_\_\_\_\_  
Company

  
\_\_\_\_\_  
Authorized Signature

5/5/2020

\_\_\_\_\_  
Date

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

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## TABLE OF CONTENTS

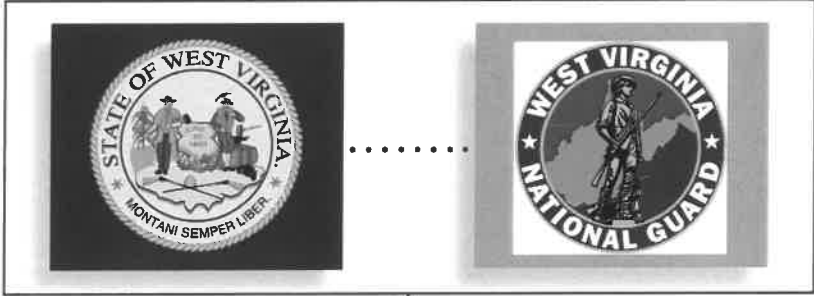
Section 1: Organization Chart .....	1-0
Section 2: Company Profiles .....	2-0
Section 3: Detailed Resumes .....	3-0
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Section 7: Diversity Inclusivity Plan.....	7-0

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# ORGANIZATION CHART

# SECTION 1

# ORGANIZATION CHART



**Principal In-Charge/Project Manager**  
 Rios Williams Architects  
 Lizette Rios-Williams, RA

## DESIGN TEAM

**ARCHITECTURE & INTERIORS**

Rios Williams Architects (RWA)

Keith A. Williams, AIA, PMP  
*Lead Architect*

Lizette Rios-Williams, RA  
*Architect*

**ENGINEERING**

H.F. Lenz Company

Thomas F. Deter, PE, LEED AP  
*Principal In-Charge MEP*

Brian D. Schmidt, PE  
*Lead Electrical*

John C. Stewart, PE, LEED AP  
*Lead Mechanical*

Gregory D. Rummel, CPD  
*Fire Protection / Plumbing Designer*

David A. Blackner, PE  
*Lead Structural*

Site / Civil / Survey / Utilities

The Thrasher Group

Robert Milne, PE  
*Site / Civil Project Manager*

**SERVICES**

T Construction & Consulting Services

Traci L. Yates  
*Senior Cost Estimator*

Ackenheil Engineers  
*Geotechnical Services*

Burton R. Holt, PE  
*Project Manager*

Jesse T. Lape, PE  
*Geotechnical Engineer*

\* MBE AND/OR WBE

SECTION 2



# RWA COMPANY OVERVIEW



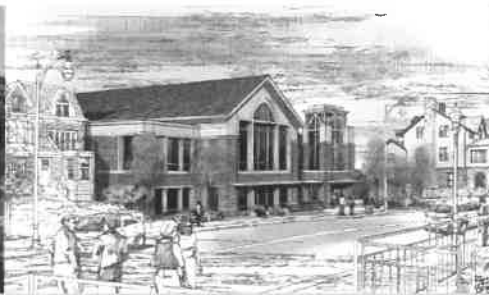
Rios Williams Architects, P.C. is a full-service architectural firm, established in 2005, that provides services to a diverse clientele. Our principals are noted for their integrity and excellence in project design and execution. Achieving client satisfaction is our ultimate goal. Regardless of project size or type, we are dedicated to finding design solutions to complex issues that meet the client's needs both architecturally and financially. Our design objective is to provide the optimum architectural solution within the constraints of budget, scope and schedule. RWA measures a project's success by its ability to meet all the client's goals. We believe that the best method of achieving this is to promote a high level of collaboration amongst stakeholders.

The RWA principals have over 55 years of experience. They have a wide-ranging and successful background in working with various clients and consultants on a multitude of project types including higher educational, commercial, housing, institutional, government and residential facilities. RWA services includes feasibility studies, programming, space planning, architecture, interior architectural design and documentation services, construction administration services and project management consulting.

RWA understands the importance of assembling a quality design team that best fits the project and client's needs. The purpose of teaming with skillful consultants is to expand knowledge and expertise for the benefit of the project and to best serve the client.

RWA utilizes the most current technologies including building information modeling (BIM), Lumion rendering software, etc. This investment leverages the time of our experienced staff, allowing us to work hands-on with our Owners. We are able to look at a proposed design together in 3D, early and often. During construction, we are able to unlock the value of this data when we share it with fabricators and builders.

RWA has been certified by PAUCP as a Minority Woman Disadvantaged Business Enterprise (DBE #9422), by DGS as a Minority Woman Small Business (#536311) and by The State of West Virginia Department of Administration Purchasing Division



# CLIENT REFERENCES

## HIGHER-ED REFERENCES

Mr. Owen Cooks  
Assistant Vice Chancellor for Planning, Design & Construction  
**The University of Pittsburgh**  
Facilities Management  
3400 Forbes Avenue  
Pittsburgh, PA 15276  
Phone: 412.624.9500  
E-mail: owenjcooks@pitt.edu

Mr. Park Rankin (Retired)  
University Architect  
**The University of Pittsburgh**  
Facilities Management  
Phone: 412-627-3730  
E-mail: plrankin160@gmail.com

Ms. Amy Buxbaum  
Associate VP Finance & Admin.  
**The University of Pittsburgh**  
**Johnstown Campus**  
450 Schoolhouse Road  
Johnstown, PA 15904  
Phone: 814.269.7991  
E-mail: buxbaum@pitt.edu

## K-12 EDUCATION REFERENCES

Mr. Alan Ciechanowski  
Development Director  
**Hillcrest Christian Academy**  
2500 Bethel Church Road  
Bethel Park, PA 15102  
Phone: 412.854.4040 ext. 207  
E-mail: aciechanowski@hillcrestca.org

## RELIGIOUS REFERENCES

Mr. John Walluk  
Finance Council and Chairman of the  
Facilities Committee  
**Saint Mary of the Mount**  
Phone: 412.849.5657  
E-mail: jnwalluk@yahoo.com

## GOVERNMENT REFERENCES

Mr. Daniel R. Ellingsen  
Lead Contract Specialist  
**911th Airlift Wing ARC**  
Contracting LGC Bldg. 210  
2375 Defense Avenue  
Moon Township, PA 15108  
Phone: 412.474.8125  
E-mail: daniel.ellingsen.1@us.af.mil

## CORPORATE REFERENCES

Mr. Ralph Egerman  
Principal  
**Colliers International**  
Two Gateway Center  
603 Stanwix Street, Suite 125  
Pittsburgh, PA 15222  
Phone: 412.321.4200

Mr. Jeff Tapolci  
COO  
**ABG Capital**  
8 Penn Center West, Suite 101  
Pittsburgh, PA 15276  
Phone: 412.725.6011  
E-mail: jefft@gmail.com

Mr. Anthony Sanzo  
CEO and Chairman  
**Net Health**  
40 20th Street, 5th Floor  
Pittsburgh, PA 15222  
Phone: 412.235.1554  
E-mail: asanzo@nethealth.com



**Johnstown Headquarters**

1407 Scalp Avenue  
 Johnstown, PA 15904  
 Phone: 814-269-9300  
 Fax: 814-269-9301

**Pittsburgh Office**

1051 Brinton Road  
 Pittsburgh, PA 15221  
 Phone: 412-371-9073

**Central Pennsylvania Office**

549 North Mine Road  
 Lebanon, PA 17042  
 Phone: 717-461-3916

**Ohio Office**

322 State Street  
 Conneaut, OH 44030  
 Phone: 440-599-7800  
 Fax: 440-599-7801

**Connecticut Office**

101 Centerpoint Drive  
 Suite 237  
 Middletown, CT 06457  
 Phone: 860-316-2124



## H.F. Lenz Company

H.F. Lenz Company was established 1946 in its present form, under the name H.F. Lenz Company, R.E., and in 1953 the company was incorporated, as a Private Corporation, in Pennsylvania as H.F. Lenz Company. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$530 million in MEP, Civil and Structural construction annually. Each market sector—corporate, government, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients they serve. Our staff consists of 160+ individuals, including 49 Licensed Professional Engineers and 20 LEED Accredited Professionals. Our headquarters is in Johnstown and Lebanon, Pennsylvania with branch offices in Pittsburgh and Lebanon, Pennsylvania Conneaut, Ohio, and Middletown, Connecticut.

**DISCIPLINES/SERVICES OFFERED IN-HOUSE INCLUDE:**

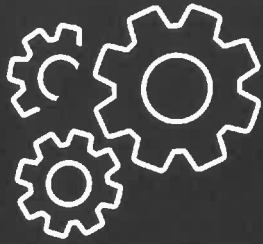
- > Mechanical Engineering
- > Electrical Engineering
- > Data/Communications Engineering
- > Fire Protection / Life Safety Engineering
- > Structural Engineering
- > Civil Engineering
- > Surveying
- > GIS
- > Construction Phase Services
- > Commissioning and Training
- > 3D CADD with Full Visualization
- > Energy Modeling
- > Sustainable design/LEED Services
- > Building Information Modeling (BIM)

**DOD FACILITIES EXPERIENCE**

The team that will serve on this contract is comprised of dedicated, multi-discipline individuals, many of whom have been working together for over a decade. Together they have taken on the challenges of numerous high profile, complex projects and have derived workable, cost-effective solutions that have met the objectives of the client.

H.F. Lenz Company has provided engineering services for over \$100 million of construction for the Baltimore Corps of Engineers over the past 20 years including 7 indefinite delivery-type contracts and 11 new reserve centers, several of which were in West Virginia. Our experience also includes the PA Army National Guard, Crane Readiness Center Rehabilitation project completed in 2015, and the PA Army National Guard, New Castle Readiness Center Rehabilitation, completed in 2018. We also recently awarded a project for the PA Army National Guard, Clearfield Readiness Center, which is just beginning design.

In addition, we have held six consecutive term contracts for Letterkenny Army Depot under which we have completed more than 100 projects requiring a variety of engineering expertise throughout the base.



- > Utility Engineering
- > Architecture
- > Site Engineering
- > Environmental
- > Survey
- > Transportation
- > Construction Services
- > Geospatial



## 8

### OFFICES

in five states:

West Virginia  
Virginia  
Pennsylvania  
Ohio  
Maryland



## 36

### YEARS

of delivering  
successful  
projects



## 500

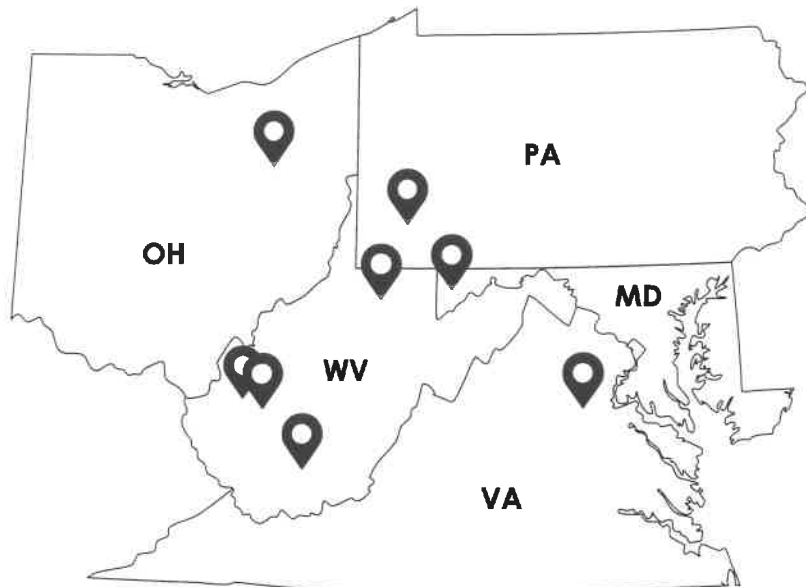
### EMPLOYEES

**47** Licensed  
Professional Engineers

**20** Licensed  
Professional Surveyors

**6** Licensed  
Professional Architects

**3** Licensed  
Professional  
Landscape Architects



Diverse services that grow communities.

**THRASHER'S GOT IT.**



# T Construction & CONSULTING SERVICES

A Woman Business Enterprise Company

25 +  
Years

100%  
Woman  
Owned

Established in 2011 by Traci Yates Maga, T Construction & Consulting Services provides general construction and consulting services in the commercial, institutional, retail, residential and government markets. With more than 25 years of experience in the construction industry, we are dedicated to our clients and the community providing Total Project Solutions. The firm is 100% woman owned and operated with Woman Business Enterprise (WBE) Certifications as well as PA Department of General Services Small Business Certification.



T Construction & Consulting Services LLC  
2001 Montour Church Road, Suite 100  
Oakdale, PA 15071  
412-238-1501

SECTION 3

# DETAILED RESUMES

Mrs. Rios-Williams founded the firm of Rios Williams Architects, PC. in 2005, with the vision to provide the highest quality service to clients and create exceptional spaces that will enhance the human experience. Mrs. Rios-Williams serves as President and 51% stockholder. In this role, she is responsible for design, documentation, project management, quality reviews, strategic planning, business development and executive leadership. She has twenty-seven years of professional experience in architectural space programming and planning, project management, design and construction. She has prepared design and construction documents for a various government, higher educational, commercial, housing, institutional, and residential facilities. She has extensive project management experience. Her professional expertise includes feasibility studies, programming, space planning, architecture and interior architectural design and documentation services, finishes and furniture selections and specifications, construction administration and project management services.

## Notable Relevant Projects

- **PA Army National Guard Readiness Center 876th Brigade Engineer Battalion, Hiller, PA** Renovations to an existing 14,164 sf Readiness Center and an existing 2,568 sf Vehicle Maintenance Training facility, along with various site upgrades. Potential 4,000sf vehicle maintenance addition.
- **Housing Authority of the City of Pittsburgh (HACP) Task Order #54.** IBC Chapter 34 Performance Compliance method analysis to obtain certificate of occupancy for an existing building. Project included the addition of ADA code compliant vandal resistant fire rated doors, hardware and windows throughout the apartment complex, new video intercom system, smoke detectors and fire alarm upgrade.
- **Net Health. Pittsburgh, PA.** A 18,000 sf interior office renovation for a software development firm. Project included various meeting rooms, training rooms, offices, a mother's room and breakrooms.
- **University of Pittsburgh Human Resource. Oakland, PA.** A 23,606 sf office renovation for the Human Resource, Benefits, Payroll Department. Project included office and restroom renovations, a new Training Room and new IDF/Security Closets.
- **University of Pittsburgh Johnstown Campus Student Dining Renovations, Johnstown, PA.** Renovations to several food service venues, kitchen and dining areas within Student Union Building and the Living Learning Center.
- **Harrington Schweers, Dattilo & McClelland Existing Condition Building Assessment.** A detailed study to understand the state of the facility, identify deficiencies and areas of repair and improvements.
- **University of Pittsburgh CBA Renovations. Oakland Pittsburgh, PA.** The design of a new student classroom and team rooms.
- **Saint Mary of the Mount, Pittsburgh, PA** A new two-story 16,000 GSF Parish Center, located on Mount Washington., that includes a 5,000 sf multi-purpose room, a commercial kitchen, offices, various sized meeting rooms, classrooms, and a two-level parking garage deck.
- **Hillcrest Christian Academy, Bethel Park, PA.** A 9,600 SF Gymnasium and Entry addition, a 13,500 sf Classroom addition to an existing 32,000 sf, 93-year-old school building. 1,500 sf of interior renovation and ADA upgrades for accessibility.
- **University of Pittsburgh Institutional Advancement. Oakland, Pittsburgh, PA.** A 19,388 sf office renovation within a former restaurant tenant space. Project included new offices, open offices areas, training room, meeting rooms and restrooms.

## Project Management Services

Since 2006, RWA has been contracted to provide project management services for various facility related projects for The University of Pittsburgh. Mrs. Rios-Williams managed small to large scale projects up to \$23 million dollars.



ROLE: PM, Architect, Interior Designer

## CONTACT INFORMATION:

lizette@rioswilliamsarchitects.com  
T: 724-255-7985

YEARS WITH RWA: 15 years

YEARS OF EXPERIENCE: 27 years

## EDUCATION:

B.ARCH.

Pennsylvania State University 1993

B.S.

Pennsylvania State University 1992

## REGISTRATIONS:

Registered Architect, Pennsylvania

## CERTIFICATIONS:

PAUCP Certified MWBE

DGS Certified Small Diverse Business

## MEMBERSHIP & COMMUNITY SERVICE:

PathWays of SW PA Board of Director  
Pittsburgh Metropolitan Area Hispanic  
Chambers of Commerce Member  
Bible Chapel Facilities Committee  
Member  
PSU College of Arts & Architecture  
Alumni Board

# DETAILED RESUMES

Mr. Williams serves as Vice President and is 49% stockholder. In this role, he is involved in the design, documentation, and quality review processes. His responsibilities include QA/QC of project design and execution. Mr. Williams is a skilled architect and project management professional with experience with master planning, existing conditions assessment, new construction, and renovation projects. His project experience includes government, higher educational, health care, commercial, sports, office, warehouse, nursing home, housing, and aviation-related facilities. Mr. Williams has managed and worked on projects that have a value of more than one billion dollars in construction value. He has managed several Indefinite Delivery Indefinite Quantity (IDIQ) contracts for the 911th Airlift Wing and the US Army Corp of Engineers. He has managed and worked on DGS, PennDOT, airport authority and many local government projects throughout his career.

## Notable Relevant Projects

- **PA Army National Guard Readiness Center 876th Brigade Engineer Battalion, Hiller, PA** Renovations to an existing 14,164 sf Readiness Center and an existing 2,568 sf Vehicle Maintenance Training facility, along with various site upgrades. Potential 4,000sf vehicle maintenance addition.
- **Architecture and Engineering Services for the 911th Airlift Wing, Department of the Air Force, Moon Township, PA.** Responsible for the design, documentation and financial oversight of over 30 separate delivery orders for various additions and renovations to facilities on the Air Force Reserve Base.
- **Bus Maintenance, Bus Storage, and Administration Facility Centre Area Transportation Authority (CATA), Centre County, PA.** A \$25 million facility expansion that included a new maintenance and administration building, an expansion to a bus storage building and a 3-story parking garage facility.
- **Open-End Agreement, Allegheny County Department of Public Works, Pittsburgh, PA..** Oversaw the design and production of five separate task orders for various additions and renovations to facilities.
- **Open-End Agreement for Various Projects, LMC Corporation Pennsylvania, New Jersey, Virginia, and Maryland.** A 15,000 sf data center expansion; 12,000 sf office space tenant improvements; 3,600 sf lab addition and renovation; and full window replacements on a 850,000 sf building.
- **Rescue Swimmer Training Facility, U.S Coast Guard, Elizabeth City, NC.** A \$23 million, 1-story, 52,000 sf training facility.
- **Medical Facilities, CENTCOM AOR Transatlantic Programs Center.** A 88,000 sf Combat Support Hospital to serve active duty personnel of the Armed Forces of the U.S. on contingency operations.
- **Bus Maintenance, Bus Storage, and Admin Facility, Erie Metropolitan Transit Authority (EMTA), Erie, Pennsylvania.** A \$50 million expansion that included a new 80,000 sf maintenance and paratransit bus storage building, a new 47,000 sf bus storage building, a new 16,000 administration building, and a new 3-story 300 space parking garage.
- **Housing Community Plan for the US Air Force. Incirlik Air Force Base, Turkey & California.** Physical assessments of 47+ different housing unit types; proposing modifications to bring the inadequate units up Air Force standards; and creating a report documenting our conclusions, to be incorporated in a master plan study.
- **New Operations and Maintenance Facility, Allegheny County Sanitary Authority, Pittsburgh, Pennsylvania.** A \$24 million, 112,000 sf operations and maintenance facility that houses a 4-story administrative/office tower and a single-story, high-bay maintenance shop area. Achieved a LEED Certified rating.



**ROLE:** Architect, QA/QC

## CONTACT INFORMATION:

keith@rioswilliamsarchitects.com  
T: 724-255-9975

**YEARS WITH RWA:** 15 years

**YEARS OF EXPERIENCE:** 28 years

## EDUCATION:

MBA Finance - University of Pittsburgh  
Katz Graduate School of Business 2003  
B.ARCH.  
Pennsylvania State University 1992  
B.S.  
Pennsylvania State University 1991

## REGISTRATIONS:

Registered Architect:  
Pennsylvania [REDACTED]

New Jersey, and Georgia

## CERTIFICATIONS:

PAUCP Certified MWBE

PMI Project Management Professional

## MEMBERSHIP & COMMUNITY SERVICE:

AIA American Institute of Architects  
NCARB National Council Architectural  
Registration Board  
Boys Scouts of America Board Member  
Bible Chapel Facilities Committee  
Member





## Thomas F. Deter, P.E., LEED AP

*Principal-in-Charge of MEP Systems Engineering*

Mr. Deter has over 30 years of experience and is responsible for the engineering design of all trades, the supervision of senior designers, the preparation of reports to determine optimal systems and/or equipment selections, and the coordination and checking of contract documents for completeness and quality. He has extensive experience in the design of building systems for both new buildings and building retrofits for educational, health care, commercial, government, industrial, residential, and utility related facilities. He is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; lighting and emergency lighting systems; fire alarm systems; security; sound; and telephone systems.

### EDUCATION

Bachelor of Science, Electrical Engineering Technology, 1987, University of Pittsburgh at Johnstown

### EXPERIENCE

H.F. Lenz Company 1992-Present • Parfitt/Ling Consulting Engineers 1990-1992 • Gary Johnston & Assoc., Inc. 1987-1990

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in PA, AR, ID, IL, IN, MD, NE, NJ, NC, OH, OK, OR, SD, VA and WV • LEED Accredited Professional

### PROFESSIONAL AFFILIATIONS

NSPE/PSPE • U.S. Green Building Council

### PROFESSIONAL REFERENCES

Mr. James A. Coccagna  
Letterkenny Army Depot  
Department of the Army  
Chambersburg, PA 17201-4150  
PH: 717-267-5406  
Email:  
jcoccagn@emh1.lead.army.mil

Mr. Allen Lichvar  
Supervisory General Engineer  
U.S. Department of Energy  
National Energy Technology  
Laboratory  
Morgantown, WV 26507-0880  
30 4-285-4042  
allen.lichvar@netl.doe.gov

### PROJECT EXPERIENCE

#### Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

#### Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts
- › Rocket Army Munitions Center (LEMC), AP Rocket Motor Destruction Facility, Phase I
- › Building 1, New SCIF

#### U.S. Army Reserve Aviation Center, Weirton, West Virginia

- › Design/build training building with classrooms, assembly hall, arms vault, armorer, weaponeer room, and Comsec training area, and a 6,300 sq.ft. OMS

#### U.S. Army Reserve Center, Wheeling, West Virginia

- › Design/build training building with classrooms, administrative areas, library, assembly hall, weaponeer room and medical section, and 17,000 sq.ft. OMS/AMSA

#### 911th Airlift Wing, U.S. Air Force Reserve, Greater Pittsburgh International Airport, Coraopolis, Pennsylvania

- › Various renovations and new construction under two term contracts

#### NETL (National Energy Technology Laboratory) – Various Locations

- › Indefinite Delivery-Indefinite Quantity (IDIQ) contract for NETL facilities in Bruceton, PA, Morgantown, WV, and Albany, OR; Facilities include 81 buildings and 14 major research facilities on 200-acres



## John C. Stewart, P.E., LEED AP

*Mechanical Engineer*

Mr. Stewart has 34 years of experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, and cost estimating. His experience includes the design of mechanical systems for laboratories, hospitals, educational facilities, industrial plants, and military installations. He has also been involved in the design of chiller and boiler plants.

### EDUCATION

Master of Science, Mechanical Engineering, 1995, University of Pittsburgh

Graduate Courses in Facilities Engineering, 1984-1987, Air Force Institute of Technology

Bachelor of Science, Mechanical Engineering, 1984, University of Pittsburgh

### EXPERIENCE

H.F. Lenz Company 1995 – Present / Peter F. Loftus Division, Eichleay Engineers, Inc. 1989 – 1996 / Newport News Shipbuilding 1988 – 1989 / U.S. Air Force 1984 – 1988

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania; LEED Accredited Professional

### PROFESSIONAL AFFILIATIONS

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA; U.S. Green Buildings Council

### PROFESSIONAL REFERENCES

Terry Pearsall, Jr. FMP  
Chief of Facilities,  
Pennsylvania Department of  
Transportation, Facilities Management  
Division, Harrisburg, PA 17105-3451  
PH: 717-787-0466  
Email: tpearsall@pa.gov

Marty Altschul, P.E.  
University Engineer  
Carnegie Mellon University  
PH: 412-268-2529  
Email: ma3q@cmu.edu

### PROJECT EXPERIENCE

#### Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

#### Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts including Building 1, New SCIF

#### 911th Airlift Wing, U.S. Air Force Reserve, Greater Pittsburgh International Airport, Coraopolis, Pennsylvania

- › Various renovations and new construction under two term contracts

#### Walter Reed Army Medical Center

- › Renovation and upgrade to Building 12, Provost Marshal's Facility
- › Repair and upgrade of the main steam distribution system from the Garrison's Steam Plant, Building 15, to the Main Hospital building, Building 2

#### Pennsylvania National Guard, Johnstown, Pennsylvania

- › New Regional Maintenance Facility with 23,560 sq.ft. maintenance shop. The project included flammable storage, and an on-site fuel dispensing station

#### Ohio National Guard, Akron-Canton Regional Airport, Akron, Ohio

- › New 26,400 sq.ft. aircraft storage facility and partial demolition, expansion, and renovations to the existing hangar. The project included the design of a new fire suppression system

#### PennDOT, Harrisburg, Pennsylvania

- › State-wide term contract under which over 20 work orders have been issued for maintenance facilities, staging buildings and storage buildings



## Brian D. Schmidt, P.E.

*Electrical Engineer*

Mr. Schmidt has extensive experience in the use of computer-aided drafting and design (CADD) and electrical system modeling and computer calculations (SKM Power Tools) for producing engineering drawings for various types of higher educational, commercial, institutional, and governmental facilities. His experience in the electrical field includes the design of generators, emergency lighting and power distribution systems; exterior high-voltage underground and overhead pole line distribution systems; building interior and exterior electrical power distribution systems; lightning protection systems; theatrical stage dimming systems; sound reinforcement systems; computer room grounding systems and signal reference grid systems; uninterruptible power supply systems; paralleling and synchronizing switchgear; interior and exterior building lighting systems; site utilities; grounding systems; and signal, communication, security, and fire alarm systems. Mr. Schmidt also has attended a 5 day SKM system analysis training course conducted by the SKM System Analysis Tech Support Group.

### EDUCATION

Bachelor of Science, Electrical Engineering Technology, 2006,  
University of Pittsburgh at Johnstown

### EXPERIENCE

H.F. Lenz Company 2006 – Present

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania • Completion of PTW Software and Power Systems Application Courses through IEEE • Completion of Battery Technology and Battery Monitoring through Liebert Corporation

### PROFESSIONAL REFERENCES

Michael Long  
ELECTN A, Physical Plant  
The Pennsylvania State University  
University Park Campus  
814-865-4731  
mal30@psu.edu

Lee Jensen, PE, CPE  
National Energy Technology  
Laboratory  
Site Operations Division 1450  
Queen Ave, SW  
Albany, OR 97321  
541-967-5901  
Lee.Jensen@netl.doe.gov

### PROJECT EXPERIENCE

Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

Letterkenny Army Depot – Chambersburg, Pennsylvania

- › Numerous projects under several consecutive term contracts for renovations, studies and new construction throughout the base. A few project examples include:
  - › Ammunition Storage Area, Electrical Distribution Upgrades to the original 1941 era system to 12.47 KV distribution voltage and replacement of deteriorated poles, conductors, and associated equipment
  - › Renovation of the south end of Building 397 for use as generator / compressor rebuild shop. The project included upgrading electric, fire sprinklers, lighting and all interior and exterior finishes
  - › Expansion of the existing building to the south and east to accommodate additional office space, larger work area and overhead doors to accommodate larger shipping containers
- › New rocket motor deconstruction facility with chemical treatment processing chamber, loading and unloading facilities, and a building that serves as a preparation building and control room for the operation – D/B project

The Pennsylvania State University – University Park, Pennsylvania

- › New 12.7 kV service and substations at seven buildings



## Gregory D. Rummel, CPD

*Plumbing/Fire Protection Designer*

Mr. Rummel has designed complete plumbing and fire protection systems for colleges, schools, office buildings, hospitals, prisons, laboratories, industrial facilities, and military installations. He is fully knowledgeable of NFPA codes and is experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems. He is responsible for plumbing and sprinkler system design, layout, and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Rummel supervises drafting personnel; coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards.

### EDUCATION

Bachelor of Science, Mechanical Engineering Technology, 2000, Point Park College

Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD Technology, Triangle Institute of Technology

### EXPERIENCE

H.F. Lenz Company 1989- Present •  
Newport News Ship Building 1984-1989

### PROFESSIONAL REGISTRATION / CERTIFICATION

Certified in Plumbing Design, ASPE

### PROFESSIONAL REFERENCES

Terry Pearsall, Jr. FMP  
Chief of Facilities,  
Pennsylvania Department of  
Transportation, Facilities  
Management Division, Harrisburg,  
PA 17105-3451  
PH: 717-787-0466  
Email: tpearsall@pa.gov

David Dunn  
Senior Project Manager  
University of Pennsylvania  
PH: 215-898-8803  
Email: ddunn@upenn.edu

### PROJECT EXPERIENCE

#### Pennsylvania Army National Guard, Pittsburgh, Pennsylvania

- › Rehabilitation of New Castle Readiness Center
- › Rehabilitation of Crane Readiness Center

#### Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Over 100 projects completed under seven consecutive term contracts

#### U.S. Army Reserve Aviation Center, Weirton, West Virginia

- › Design/build training building with classrooms, assembly hall, arms vault, armorer, weaponer room, and Comsec training area, and a 6,300 sq.ft. OMS

#### U.S. Army Reserve Center, Wheeling, West Virginia

- › Design/build training building with classrooms, administrative areas, library, assembly hall, weaponer room and medical section, and 17,000 sq.ft. OMS/AMSA

#### 911th Airlift Wing, U.S. Air Force Reserve, Greater Pittsburgh International Airport, Coraopolis, Pennsylvania

- › Various renovations and new construction under two term contracts

#### Pennsylvania National Guard, Johnstown, Pennsylvania

- › New Regional Maintenance Facility with 23,560 sq.ft. maintenance shop. The project included flammable storage and an on-site fuel dispensing station

#### PennDOT, Harrisburg, Pennsylvania

- › State-wide term contract under which over 20 work orders have been issued for maintenance facilities, staging buildings and storage buildings



## David A. Blackner, P.E.

*Principal/Structural Engineer*

Mr. Blackner is responsible for the complete layout, design and detailing of building structural systems. He has diverse experience in the structural analysis and design of projects involving steel, engineered masonry, reinforced cast-in-place concrete, pre-cast/pre-stressed concrete and wood frame structures.

Mr. Blackner is proficient in multiple analysis platforms (STAAD, RAM Structural Systems, 3-D Analysis and Finite Elements). He also oversees structural coordination with other trades, as well as conducting periodic site visits related to the structural work. Dave is also responsible for writing the structural technical specifications for projects. He received the Engineer of the Year Award 2005 by the local chapter PSPS.

### EDUCATION

Associate, Mechanical Engineering  
Technology, 1988, Pennsylvania  
State University

Associate, Architectural Engineering  
Technology, 1988, Pennsylvania  
State University

### EXPERIENCE

H.F. Lenz Company 1998-Present •  
L. Robert Kimball & Associates 1995-  
1998 • George D. Zambas  
Developer 1989-1995

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in  
Pennsylvania, Arizona, Colorado,  
Connecticut, Delaware, Georgia,  
Maine, Maryland, Massachusetts,  
New York, and North Carolina

### PROFESSIONAL REFERENCES

Richard Slifka  
North American Hoganas  
111 Hoganas Way  
Hollsopple, PA 15935-6416  
Richard.slifka@nah.com  
814-479-3505

Tara Bosserman  
Cambria County Association of the  
Blind and Handicapped  
211 Central Avenue  
Johnstown, PA 15902-3270  
814-536-3531  
tbosserman@ccabh.com

### PROJECT EXPERIENCE

#### Letterkenny Army Depot, Chambersburg, Pennsylvania

- › Numerous projects completed under seven consecutive term contracts for renovations throughout the facility

#### North American Hoganas, Inc. - Johnstown and Hollsopple, Pennsylvania

- › Office Building Addition – 8,300 sq.ft., two-story office and laboratory space
- › New Warehouse Building – 25,000 sq.ft. pre-engineered clearspan structure, drilled shaft (deep) foundation system
- › New Atomizing Control Room – Two-story masonry load bearing structure housing control room equipment and operating personnel

#### WDYK Radio - Cumberland, Maryland

- › New Radio Station – 6,400 sq.ft., two-story, structural steel frame building with precast concrete panel facade

#### Cambria County Association for the Blind and Handicapped Johnstown and Ebensburg, Pennsylvania

- › Building Addition – 17,000 sq.ft. pre-engineered building framing system on spread footings with "hair-pin" thrust ties
- › Office and Manufacturing Building Addition – Currently in design - approximately 50,000 sq.ft. structural steel framing on spread footings, housing manufacturing and office space
- › Building Addition – 27,000 sq.ft. manufacturing building addition of structural steel and shallow spread footings. Project also included approximately 30,000 sq.ft. of renovation
- › Office/Manufacturing Building Addition – 60,000 sq.ft., two-story, structural steel framing on spread footings, with 50,000 sq.ft. of renovations

# ROB MILNE, PE

Site Project Manager



Robert Milne, PE has over 25 years of experience working with both public and private clientele throughout the Mid-Atlantic region to develop millions of dollars' worth of commercial, industrial, residential, and mixed-use sites. Rob's in-depth understanding of site layout, design, permitting, and funding have enabled him to complete several complex projects that have boosted economic development and delivered safe, sustainable building sites. Rob remains involved with every facet of the projects he manages - overseeing design standards, staff assignments, project schedules, and client communication.

## Education

Master of Science,  
Civil Engineering  
West Virginia University

Bachelor of Science,  
Civil Engineering  
West Virginia University

## Registrations

Professional Engineer:

- > West Virginia
- > Pennsylvania
- > Virginia
- > Maryland

## Training

- > USACE/Access Control Point  
Design Training Course, 2009

## Affiliations

- > Leadership Monongalia  
County, WV
- > Foundations of Leadership/  
National Leadership Institute

## Experience

### Camp Upshur Marine Corps Base

- Role: Project Manager
- > Prince William County, VA

### Andrews Air Force Base

- Role: Project Manager
- Prince George's County, MD

### Fort Leavenworth AIE

- Role: Project Manager
- > Leavenworth County, KS

### Fort Drum Traffic Study Site Investigation and Report

- Role: Project Manager
- > Monongalia County, WV

### West Virginia University Evansdale Campus Roadway/ Parking

- Role: Project Manager
- > Monongalia County, WV

### WVU Milan Puskar Stadium Renovations

- Role: Project Manager
- > Monongalia County, WV

### Tema Manufacturing Facility, Burr Industrial Park

- Role: Project Manager
- > Jefferson County, WV

### Rockwool Manufacturing Facility

- Role: Project Manager
- > Jefferson County, WV

### ACP Study for Department of Defense

- Role: Project Manager
- > MD

### DEA/FBI Flex Ops Facility

- Role: Project Manager
- > Quantico, VA

### ATF Headquarters

- Role: Project Manager
- > Washington, DC

### JBAB Building 485 Concrete Repairs

- Role: Project Manager
- > Washington, DC



Ms. Traci L. Yates has over 25 years' experience successfully working for commercial general contractors within the Pittsburgh region as well as employed with an architectural, engineering and construction firm located in Pittsburgh, PA. Actively involved in all aspects of a construction project from pre-construction services through the final punch list, Ms. Yates makes customer satisfaction a priority. She has worked with clients from small tenant fit-outs to class A corporate headquarters with project values up to \$65 million.



Established in 2011 by Traci Yates, **T Construction & Consulting Services** provides general construction and consulting services in the commercial, institutional, retail, restaurant, and government markets. A 100% owned and operated Women Business Enterprise (WBE) Company.

### PROJECT HIGHLIGHTS

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**North Way Christian Community** – 27,000 Sq. Ft. building conversion from previous Kmart into new religious facility. Project consist of complete demolition and renovation of all new interior and MEP systems. Original Conceptual Budget compared to Final Contract Value came in under budget by 8%. Rochester, PA \$1,100,000

**Johnson's Pharmaceutical** – 20,000 Sq. Ft. building conversion from previous elementary school into new pharmaceutical distribution center and office headquarters facility, West Mifflin, PA \$1,500,000

**AB Mac Properties** – 3 Story renovation of a historical building that experienced a divesting fire in 1961; the exterior damage was later covered with structural steel and glass panels. In 2016, T Construction restore the original exterior brick and reconstruction the interior into loft apartments, Greensburg, PA \$550,000

**Duquesne University** – School of Law moot courtroom and lecture hall renovation, included removing and enlarging exterior windows, tiered lecture seating, new partition wall system and support, custom wood partition closet, modifications to juror's box, court reporter and witness stands, and all new finishes, Pittsburgh, PA \$375,000

**Rally House** – New retail store of Sporting Apparel and Merchandise, three build outs completed in 2016, Streets of Cranberry, The Waterfront (Homestead) and North Shore (Pittsburgh). All very aggressive schedules, North Shore was raw space with new concrete slab, all new utilities and finishes completed in 6 weeks. Project values range from \$100,000 to \$400,000

**Ayco, a Goldman Sachs Company** – 14,500 Sq. Ft. Class A office renovation, completed while occupied in two phases, 2<sup>nd</sup> shift work with background clearances, Southpointe, Canonsburg, PA \$350,000

**Rice Energy** – 16,500 Sq. Ft. Class A office build-out, Southpointe, Canonsburg, PA \$700,000

**AT&T Stores** – 2,000 to 4,000 sq. ft. new retail store build-outs for eight (8) locations through-out Pittsburgh Region. \$75,000 to \$150,000

#### **Past Clients Include:**

**CONSOL Energy** – 325,000 sq. ft. Corporate Headquarters, Southpointe II, Canonsburg, PA \$65 million  
Including Fairmont Supply – 75,000 sq. ft. Office Building

**Jones Day** – Class A Interior Build-Out, Pittsburgh, PA

**ABB, Inc.** – 125,000 sq. ft. office, production and assembly facility, Mt. Pleasant, PA \$7.5 million

**Medrad, Inc.** – Renovation / expansion to new facility and 35 various projects to reconfigure remaining departments at existing campus, Indianola, PA

**The Rubinoff Company** – 104,000 sq. ft. design/build flex office building, Lawrenceville, PA \$3.7 million

**BURTON R. HOLT, P.E.**  
**Project Manager**

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**EDUCATION**

Montana College of Mineral  
Science and Technology

B.S, Civil Engineering, 1984

**REGISTRATIONS**

Professional Engineer

Pennsylvania [REDACTED]  
West Virginia [REDACTED]

**EXPERIENCE**

Years w/Ackenheil: 26

Years w/other Firms: 9

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**GENERAL QUALIFICATIONS**

Mr. Holt has over 35 years of experience providing professional civil and geotechnical engineering services as well as construction inspection and testing services to both public and private sector clients. Mr. Holt is currently retained by PennDOT, Allegheny County and the City of Pittsburgh to perform geotechnical design reviews for conformance to industry standards and PennDOT geotechnical design requirements. Mr. Holt has also provided geotechnical expert witness services associated with legal complaints for numerous cases in Pennsylvania and West Virginia.

Mr. Holt's professional experience includes a variety of engineering design and construction projects including interstate highways and bridges, state and local highways and bridges, mass transit systems, sewage treatment plants, power plants, industrial facilities, airports, commercial developments and residential developments. Mr. Holt has designed conventional shallow and deep foundations, gravity, cantilevered, tie-back, and soil-nailed retaining walls, concrete and asphalt pavements, permanent and temporary cut and fill slopes, mine subsidence remediation programs and landslide remediation programs. Mr. Holt has also performed, supervised and managed construction inspections and field and laboratory testing of soil, concrete, masonry, asphalt and steel installations for highways, bridges, airports, buildings, plants and warehouses.

A summary of Mr. Holt's recent applicable project experience as a Project Manager follows:

<u>Project Name</u>	<u>Year Complete</u>	<u>Scope of Work</u>
Addison Terrace Phases 1-4 (URA)	2019	Geotechnical Engineering and Inspection
I70/SR51 Interchange Improvements (D12)	2019	Geotechnical Engineering
South Park Maintenance Facility (ACDPW)	2018	Geotechnical Engineering
Southern Beltway Maint. Facility (PTC)	2018	Geotechnical Engineering
Greensburg Police Headquarters (DGS)	2018	Geotechnical Engineering



# Jesse T. Lape, P.E.

## EDUCATION

University of Pittsburgh, Pittsburgh, PA  
**Bachelor of Science Degree / Civil Engineering**  
**Certificate in Geotechnical Engineering**

2009

## CERTIFICATIONS

Professional Civil Engineer      2016 - Present  
Pennsylvania, [REDACTED]

PennDOT Drilling Inspector      2013 - Present  
Certification Number: [REDACTED]

## CERTIFICATIONS & TRAINING

Radiation Safety Officer & Nuclear Gauge Certification  
ACI Concrete Field Testing Technician Certification  
ACI Concrete Strength Testing Technician Certification

FAA ERLPM Asphalt Accreditation  
OSHA, FAA, & Hazwoper Safety Training  
Maintain Lab. AASHTO & CCRL Certification

## EXPERIENCE

**Ackenheil Engineers, Inc.**, Pittsburgh, PA

*Engineering Intern / Civil Technician*

2007 – 2009

*Staff Geotechnical Engineer / Laboratory Manager*

2009 – 2016

*Project Geotechnical Engineer / Laboratory Manager*

2016 - Present

A summary of Mr. Lape's recent project experience follows:

<u>Project Name</u>	<u>Year Complete</u>	<u>Scope of Work</u>
Staunton Heights Slide	2020	Geotechnical Engineering – Drilling & Monitoring
E. Laurel Way Retaining Wall (Homestead)	2019	Geotechnical Reconnaissance – Wall Replacement
Boston Pump Station	2019	Geotechnical Engineering – Foundation Recommendation
Stoneybrook Drive Erosion & Landslide	2019	Geotechnical Evaluation & Recommendations
Jacktown Road Slides	2019	Geotechnical Engineering – Multiple Landslides
Sweeny WTP Canopy Building	2019	Geotechnical Engineer - Foundation
White Oak Storage Slide	2019	Geotechnical Evaluation & Recommendations
Greece City Bridge	2019	Geotechnical Engineering – Foundation
Roosevelt Avenue Landslide	2019	Geotechnical Engineering – Rock Buttress
Meadow Drive Landslide	2019	Geotechnical Expert Litigation Witness
IDV Development	2019-2020	Geotechnical Engineering – Subgrade Improvements
Findlay Township Water Tank	2019	Geotechnical Engineering – Foundation & Grading
Elizabeth Avenue Slide – Stowe Township	2019-2020	Geotechnical Engineering - Landslide
PTC Southern Beltway	Present	Geotechnical Consultations
NHTMA WWTP Expansion	2018-2019	Geotechnical Inspection – Settlement Analysis
North Fork Dam	2018	Geotechnical Engineering – Stability Analysis
I-70 / S.R. 51 Interchange	2018	Geotechnical Subsurface Investigation
911 <sup>th</sup> AFB AGE Building Addition	2018	Geotechnical Engineering
Greensburg Police Headquarters Bldg.	2018	Geotechnical Engineering
PTC Jefferson Hills Warehouse	2018	Geotechnical Engineering
ACDPW South Park Facility	2018	Geotechnical Engineering

# RELEVANT EXPERIENCE

# SECTION 4

# RELEVANT EXPERIENCE

## DEPARTMENT OF DEFENSE (DOD) FACILITIES

### DEPARTMENT OF GENERAL SERVICES

- Pennsylvania Army National Guard Readiness Center  
876th Brigade Engineer Battalion, Hiller, PA

### 911TH AIRLIFT WING, PITTSBURGH, PA

- JLSS 11-0013 A/B Convert Dining Hall to CAC B213-NAF and Renovate Dining Hall B213
- JLSS 13-0017 Repair Administration Building, B218
- JLSS 11-0017 Convert Floor to OSI Use, Construct Outdoor Staging Area Aerial Port, and Demolish AFOSI
- JLSS 12-0010 Renovate Command Post, Building B418
- JLSS 13-0002 Demolish AFOSI, Building B127
- JLSS - Fire Suppression Renovation
- DZQA 14-0002 Conduct Upgrade, Noise, and Ventilation Study, Small Arms Range, Building B701
- JLSS 12-001B Construct Munitions Maintenance & Inspection Facility
- JLSS 97-0002 Survival Equipment, Building B408
- JLSS 97-0003 NDI Shop, Building B409
- JLSS 03-0023 Communications, Building B405
- JLSS 03-0031 POL Access Routes
- JLSS 04-0002 AGE Shop, Building B420
- JLSS 06-0008 Skylight, Building B125
- JLSS 07-0020 Dining, Building B213
- JLSS 07-0021 Visitors Quarters, Building B209 and
- JLSS 07-0024 Visitors Quarters, Building B219
- JLSS 09-0008 MXS Storage, Building B415
- JLSS 09-0011 Operations, Building B419
- JLSS 10-7040 Base Supply, Building B312
- JLSS 11-0002 Security, Building B221

### U.S. ARMY CORPS OF ENGINEERS, BALTIMORE

- Army Reserve Aviation Facility, Johnstown, PA
- Army Reserve Center, Beckley, WV
- Army Reserve Center, Morgantown, WV
- Army Reserve Center, Wheeling, WV
- Army Reserve Center, Rainelle, WV
- Army Reserve Center, Weirton, WV
- Army Reserve Center, Brownsville, PA

- Army Reserve Center, Johnstown, PA
- Army Reserve Center, Kingwood, WV
- Army Reserve Center, Grantsville, WV
- Army Reserve Center, Elkins, WV
- Morlock Army Reserve Center, Pittsburgh, PA
- Copely Army Reserve Center, Oil City, PA
- Steele Army Reserve Center, Pittsburgh, PA
- Camp Dawson. Kingwood, WV
- Letterkenny Army Depot, Chambersburg, PA
- Fort Richie Fort Ritchie, MD
- Ammunition Plant. Scranton, PA
- 911 Airlift Wing, Greater Pittsburgh International Airport, Pittsburgh, Pa

### U.S. ARMY CORPS OF ENGINEERS, NORFOLK

- Walter Reed Army Medical Center Washington, D.c.

### U.S. ARMY CORPS OF ENGINEERS, PHILADELPHIA

- Philadelphia, Pa

### PA DEPARTMENT OF MILITARY AFFAIRS

- Ford City Armory, Ford City, PA

### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), NORTHERN DIVISION

- Naval Air Station, Lakehurst, NJ
- Naval Ship Parts Control Center, Mechanicsburg, PA

### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), CHESAPEAKE & ATLANTIC DIVISION

- Naval Research Laboratory, Washington, DC
- Oceana Naval Station, Virginia Beach, VA

### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), SOUTHEAST DIVISION

- P-8A Integrated Simulation/Training Center  
Jacksonville, FL

### DEPARTMENT OF GENERAL SERVICES

- Pennsylvania National Guard, Johnstown, PA
- Pennsylvania Army National Guard, 128Th Brigade Support Battalion
- Pennsylvania Army National Guard, 107Th Field Artillery Battalion

\* ATFP (scope included in project)

# RELEVANT PROJECTS

## **Pennsylvania Army National Guard Readiness Center 876th Brigade Engineer Battalion, Hiller, PA**

The project includes the renovations of an existing 1-story, 14,164 sf Readiness Center and an existing 1-story freestanding 2,568 sf Vehicle Maintenance Training facility, along with various site upgrades. The scope of work includes the rehabilitation of the shell of the building, the modification of the facility interiors to meet latest Unit programmatic requirements and the latest ADA building code requirements. In addition, HVAC, plumbing and electrical lighting systems upgrades, energy conservation improvements, various anti-terrorism force protection upgrades, Personal Operated Vehicle (POV) Parking / Military Equipment Parking (MEP) renovations, a new 750 sf concrete pad for military track vehicle turning/parking are included. A potential new 4,000 sf vehicle maintenance facility will be included if feasible.

## **911th Airlift Wing, Facility Design Improvements, Pittsburgh, PA**

At a previous firm, Mr. Williams has served as the project manager responsible for the design, documentation and financial oversight of separate Delivery Orders for various additions and renovations to facilities on the Air Force Reserve Base. He was point of contact with the 911th Contracting Officer and CE department. He was responsible for coordination with small business subcontractors and budget adherence. Task orders include the following:

- **911th Airlift Wing, Pittsburgh, PA Facility Renovations JLSS 11-0013 A/B Convert Dining Hall to CAC B213-NAF/ Renovate Dining Hall B213**

Project included the relocation of administrative office spaces and the renovation and repair of the 20,700 square foot dining hall in building 213. This task order encompassed selective demolition and modifications of interior spaces, restrooms, storage space, HVAC, fire protection, plumbing, and electrical systems.

At the upper level an open bar /seating/CAC (Community Activity Center) Area was created adjacent to the dining hall, along with new storage room and restroom facilities. At the lower level seven new administrative offices were created. The existing training room was relocated into the existing Lounge Area on the same level with few modifications. The seven new offices received new windows which required modifications to the exterior facade.

- **911th Airlift Wing, Pittsburgh, PA JLSS 13-0017 Repair Administration Building, B218**

Project included renovations to re-purpose the existing 2-½ story wood structure building to meet new needs. The new floor layout provides an open office area with limited enclosed office space, new toilet rooms, updated training area, increased storage space, break rooms, a biological lab for environmental testing, a broad-casting room and photo studio, HG (Honor Guard) armory, and weapons cleaning area. The layout was constructed using new stud walls, doors, wall board, fixtures, casework and related



# RELEVANT PROJECTS

finishes. As a part of this scope, new window openings were created in the facade to coincide with the new layout. This project included extensive interior design components and the completion of both an FF&E manual and an SID manual.

- **911th Airlift Wing, Pittsburgh, PA**  
**JLSS 11-0017 Convert Floor to OSI Use, Construct Outdoor Staging Area Aerial Port, and Demolish AFOSI**

The project included modifying/renovating vacant office space in B208 into a space suitable for the OSI personnel. The building was an existing 2-½ story wood structure building containing one double loaded corridor on each floor. The project consisted of reconfiguring half of the 1st floor to provide appropriate functionality for the OSI mission. The existing floor layout was modified to provide the following spaces:

- Visitor's waiting and reception area
- Reserve Agent office
- Weapons and evidence Storage
- SIPRNET communications capability
- Interview Room, observation room, secure conference room, and agent offices.

The areas that contain sensitive information (including Weapons Storage and Evidence Storage) include a layer of expandable metal mesh on one side of the stud partition for security. The project also included replacing existing finishes and replacing the existing windows with blast resistant windows. The single existing restroom was converted into two separate restrooms for men and women.

The second project included adding paving at the location of the demolished building for staging equipment and adding an open canopy structure to protect some of the equipment. The area vacated by the demolition of AFOSI, B127 was re-purposed as a staging area for outdoor equipment. The project involved topographic surveying; civil design of a 14,000 SF asphalt lot, constructing a chain link fence to segregate the area, providing an automatic sliding gate for controlled access and force protection, and providing additional storm water management with underground detention piping. The project also includes designing a new 5,000 SF metal canopy structure to cover large equipment vehicles.

- **911th Airlift Wing, Pittsburgh, Pennsylvania**  
**JLSS 12-0010 Renovate Command Post, B418**

The project included the renovation of the command center consisting of approximately 2,500 square feet within the large hangar building 418. This task order encompassed selective demolition of interior spaces, new restrooms and storage space, HVAC, fire protection, plumbing, and electrical system modifications.

The project involved interior renovations to accommodate the command post (CP), an emergency operations center (EOC), an installation command center (ICC), a Communications/SIPRNET Room, one Vestibule Area,

**At 911th Airlift Wing projects included:**

- **Armory**
- **Weapons Cleaning Area**
- **Weapons and evidence Storage**
- **SIPRNET communications capability**

# RELEVANT PROJECTS

NCOIC office, break room, unisex toilet room, and storage room. The ICC is centrally located between the EOC and CP (the central hub for all monitoring equipment). An existing command console and 6" high raised floor platform will be relocated to a permanent "alternate back-up" facility. The new space features updated workstations and equipment. The ICC has two large interior laminated glass windows placed across from each other to allow for visual communication between the EOC and CP areas and allows the commander and personnel to maintain visual contact with the adjacent spaces. The perimeter walls of the entire space and the entrapment area are hardened.

## Additional 911th Projects:

- JLSS 13-0002 Demolish AFOSI, Building B127
- JLSS - Fire Suppression Renovation
- JLSS 12-0010 Renovate Command Post, Building B418
- DZAO 14-0002 Conduct Upgrade, Noise, and Ventilation Study, Small Arms Range, Building B701
- JLSS 12-001B Construct Munitions Maintenance & Inspection Facility
- JLSS 97-0002 Survival Equipment, Building B408
- JLSS 97-0003 NDI Shop, Building B409
- JLSS 03-0023 Communications, Building B405
- JLSS 03-0031 POL Access Routes
- JLSS 04-0002 AGE Shop, Building B420
- JLSS 06-0008 Skylight, Building B125
- JLSS 07-0020 Dining, Building B213
- JLSS 07-0021 Visitors Quarters, Building B209
- JLSS 07-0024 Visitors Quarters, Building B219
- JLSS 09-0008 MXS Storage, Building B415
- JLSS 09-0011 Operations, Building B419
- JLSS 10-7040 Base Supply, Building B312
- JLSS 11-0002 Security, Building B221

## Housing Authority of the City of Pittsburgh (HACP) Task Order #54

The existing HACP Northview Heights Building #74G, a mixed use 44,622 SF 4-story exterior masonry structure, is considered uncertified by the Department of Permits, License and Inspections (PLI) of the City of Pittsburgh because a certificate of occupancy does not exist on file. To obtain a new certificate of occupancy, an alternative path of compliance for existing buildings; such as the Work Area method, Prescriptive and Performance Compliance method needed to be evaluated. RWA performed the alternate path of compliance using the Performance Compliance method outlined in IBC 2009 Chapter 34, Section 3412. The study concluded that to achieve compliance the vertical exit stair enclosures needed to be fire-rated and additional smoke detectors needed to be added. RWA produced construction documents to replace all interior exit stair doors and windows with fire rated units, along with providing ADA code compliant vandal resistant exit doors and hardware throughout the building (50 doors/ 28 windows). Project also included the addition of a new video intercom system (Aiphone system), smoke detectors and fire alarm upgrade.

**911th Airlift Wing  
projects were  
designed to meet UFC  
requirements.**

# RELEVANT PROJECTS

## Saint Mary of the Mount New Parish Center

RWA is in the process of designing a new Parish Center for St. Mary of the Mount located on Mount Washington. The project consists of a two-story 17,000 GSF building over a two-level parking deck that holds up to 70 vehicles. The building will be located along Grandview Avenue with great views of the City of Pittsburgh. The first floor houses large and small meeting rooms, 3 classrooms for religious instruction, an entrance lobby with lounge space for the hearing impaired, a kitchenette for social gatherings, and restrooms and miscellaneous support spaces. The second floor houses a 5,000 sf multi-purpose room with vaulted ceilings, a full commercial kitchen, restrooms and support spaces. The second floor also has an outdoor balcony that looks over the city skyline. The building is intended to serve the Parish and community for daily functions such as meetings and training and serve for social events such as fish fry's and weddings. A key component of the Parish Center is the proposed "Love Your Neighbor" Plaza at the front of the building, along Grandview Avenue. The Plaza will consist of statuary and seating and will be a place where people can visit and reflect.

Date: 2017 to Present; Construction Estimate: \$6,400,000 million



# RELEVANT PROJECTS

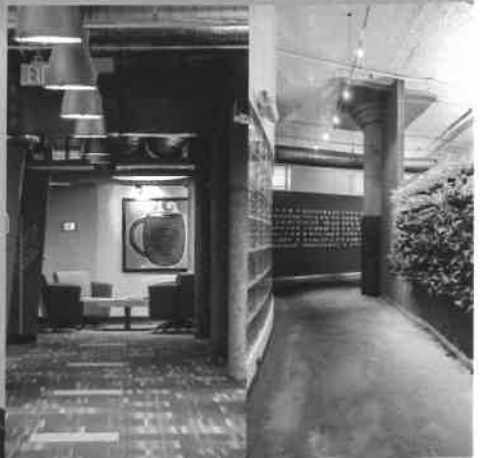
## NET HEALTH Office Renovations

Net Health hired RWA to expand their office operations within the former Crane Company Building constructed in 1920 and located in the City of Pittsburgh Strip District. RWA was responsible for the space programming, planning, design, documentation, and construction administration of their 46,000 SF interior office expansion on the 1st, 3rd, 4th and 5th floor. Net Health, a leader in the development of healthcare software, wanted to create an invigorating environment for their employees to promote creativity and to reflect the culture and branding of their business. Along with private offices and open office areas, various types of collaboration and work areas were incorporated into the design to provide their employees different choices as to where to work. The breakroom was designed to highlight the company's love for coffee and to encourage social interaction. A recharge room was included to provide the employees a place to unwind and work in silence. The project was constructed in multiple phases in an effort to minimize disruption to business operations.

Date: Multiple Phases 2014-2019; Construction: \$1,600,000 million

Contact: Mr. Anthony Sanzo, CEO; Phone: 412.235.1554;

E-mail: [asanzo@nethealth.com](mailto:asanzo@nethealth.com)





# RELEVANT PROJECTS

## University of Pittsburgh Institutional Advancement

University of Pittsburgh (Pitt) hired RWA to design a new tenant space for their Institutional Advancement Department (IA). The project was to relocate the IA Department into leased condo space located at 128 North Craig Street. RWA was responsible for designing a new office suite within a space that was formerly leased by a restaurant. The project scope consisted of work on four different levels of the building. The renovations of the four floor levels were as follows:

1. The ground floor tenant space (10,624 SF) was renovated to become the mainstreet entry of the IA department. The program consisted private offices, open office areas, conference rooms, copy/kitchenette area, reception area and other support spaces.
2. The mezzanine level (558 SF) incorporated a new conference room.
3. The first floor tenant space (3,642 SF) was designed to accommodate the Records and Research departments of IA. This space included private offices, open office areas, a workroom, copy /kitchenette area, and restrooms.
4. The basement floor tenant space (4,564 SF) was renovated to include a large conference room, an open office suite for IA's Telefund department, a workroom, a server room, a MDF room, and break room area.

Date: Multiple Phases - 2016, 2017; Construction Costs: \$1,500,000 million

Contact: Mr. Owen Cooks, AVC; Phone: 412.624.9500; E-mail: owc2@pitt.edu



# RELEVANT PROJECTS

## University of Pittsburgh Facilities Management Project Management Services

Since 2006 RWA has been contracted to provide project management services for various facility related projects throughout the University. In addition to project management, RWA has received several contracts to perform Architect of Record (AOR) design and construction services. RWA performed the project manager related services from 2006 until mid-2018. The AOR related services are ongoing.

As a University Project Management Consultant, RWA acted as the liaison across all levels of participants and was responsible for the end-to-end management of minor, moderate and large complex projects for the University. Responsibilities included meeting with department representatives to determine project scope, plan project work flow, develop project programming, develop project cost estimates and schedules, site analysis, selection of professional consultants, contract fee negotiations, manage and review construction documents, ensure adherence to University design standards and client expectations, review contractor pre-qualification and bids, review invoices and change orders, attend construction meetings, manage project close-out and assist in the LEED Certification process.

Below is a few notable projects performed for the University:

### DGS Project No. 1103-76 University of Pittsburgh Johnstown E&S Nursing Addition

Project consisted of a 26,000 SF two story addition to the Engineering and Science Building on the Pitt Johnstown Campus for the relocation and expansion of the campus's Nursing and Health Sciences Programs. The new facility included a nursing simulation laboratory, nursing offices, six teaching labs, and support space for the Biology and Chemistry programs. In addition, two general purpose classrooms, a seminar room, a conference room, and lobby area were incorporated into the facility. The project earned a GOLD Leadership in Energy and Environmental Design (LEED) Certification. Construction Contracts: \$9,130,000 million

### RACP 915-00 University of Pittsburgh Johnstown John P. Murtha Center for Public Service and National Competitiveness and the John P. Murtha Engineering & Science Building

The project consisted of two projects, the first component was the design and construction of a new 7,400 gross square feet conferencing center honoring Congressman Murtha's public service and legacy. The center includes a large multi-purpose room, museum exhibit space, pre-function areas, administrative offices, and support spaces. The second component of the Project consists of infrastructure and exterior upgrades and renovation to approximately 66,400 gross square feet of the two-story Engineering and Science Building, which building houses the Departments of Chemistry and Engineering and instructional laboratories. The project is under review for a Silver Leadership in Energy and Environmental Design (LEED) Certification. Size: 73,800 S; Construction Cost: \$23,000,000 million



## Pennsylvania Army National Guard

*New Castle, Pennsylvania*

### NEW CASTLE READINESS CENTER REHABILITATION

The New Castle Readiness Center consisted of two, two-story wings of the building with a one-story Maintenance Shop/Drill Hall which connects the two. The building is masonry type construction with stone, brick, and concrete block. Outside supporting facilities include military and privately-owned vehicle parking, fencing, sidewalks, access roads, and storage buildings as well as a vehicle maintenance facility.

This project was focused on the Readiness Center or the main building. The size of the existing facility was approximately 23,000 sq. ft. The facility houses approximately 120 soldiers from the 107th Field Artillery Battalion for the Pennsylvania Army National Guard. The original building was constructed in 1938 and housed the Calvary Units, which included administrative offices, stables, and a riding hall, which is now the Drill Hall.

The rehabilitation scope of work included:

- › Exterior architectural improvements
- › Interior architectural improvements
- › Electrical upgrades consisting of new electrical service, new distribution equipment and panelboards throughout. New lighting and receptacle layouts are also included as part of the renovation. Fire alarm system and emergency lighting will be updated throughout the building, and a connection for a future generator will be incorporated into the design.
- › HVAC renovations include replacement of the steam heating system with hot water, adding air conditioning to the Administration Wing, Rear Wing, and the existing classroom which is part of the Drill Hall, toilet room and locker room exhaust upgrades, and a kitchen exhaust and make-up air system.
- › The plumbing scope of work includes replacing water heaters, providing a new domestic water service and piping, updating the sanitary sewer and vent piping, modifying the natural gas service and piping to accommodate the increased loads, renovations to the toilet rooms and shower rooms throughout the building, and providing new roof drains.

Construction on the \$2,511,000 was completed in 2018.



#### Reference:

Matthew A. Dubovecky, EIT  
Project Manager  
PA Department of Military & Veterans  
Affairs  
814/533-2466  
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## Pennsylvania Army National Guard

*Pittsburgh, Pennsylvania*

### CRANE READINESS CENTER REHABILITATION

H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, communications and civil engineering services for the renovation of the Crane Readiness Center which houses 250 soldiers of the 128th Brigade Support Battalion, PA Army National Guard.

The existing facility was a 26,700 sq.ft., two-story Reserve Center of permanent masonry type construction, brick and concrete block units with concrete floors, and a built-up or membrane roof system. The scope of work for the project included:

- › HVAC & electrical system evaluation and improvements
- › Bathroom rehabilitation/installation of low-flow fixtures
- › American with Disabilities Act compliance upgrades
- › Code compliance upgrades
- › Bituminous pavement demolition/replacement/expansion
- › Chain-link fencing and gates
- › Exterior lighting
- › Antiterrorism/force protection requirements around the perimeter of the property
- › Masonry re-pointing
- › Emergency generator supporting up to 35% of facility's load requirements
- › Construction of a 3,000 to 5,000 sq.ft. heated storage building equipped with supply caging
- › Parking lot lighting
- › Roof replacement
- › Elevator installation

Several rooms were remodeled for new programming needs to include architectural, electrical, IT and HVAC improvements.

This facility also houses a weapons vault which will be equipped with an electronic Entrance Security System (ESS).

Construction on the \$2,200,000 was completed in 2015.



#### Reference:

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## U.S. Army Corps of Engineers – Baltimore District

*Chambersburg, Pennsylvania*

### LETTERKENNY ARMY DEPOT – INDEFINITE DELIVERY CONTRACTS

H.F. Lenz Company has provided engineering services for \$100 million of construction for the Baltimore Corps of Engineers over the past 30 years including 6 indefinite delivery-type contracts and 11 new reserve centers, several of which were design/build projects. We have held six consecutive IDC's for Letterkenny under which we have completed more than 100 projects requiring a variety of engineering expertise.



### The following are a few of our recent project examples:

- › **Bldgs 320, 350, & 370 – Locker Room/Restroom Upgrades:** Renovation and upgrades to Locker Room and Restroom areas to include new floor plans to accommodate ADA requirements, new plumbing fixtures, ventilation and architectural finishes.
- › **Building S234 – Post Cafeteria Renovation & Expansion:** Design of complete renovations and addition to the Depot's Post Cafeteria including a conference/training area.
- › **Building 365 – Groundwater Treatment Plant Permit Renewal:** Preparation of required application and associated supporting documentation for the renewal of the Groundwater Treatment Plant's NPDES Permit.
- › **Integrated Contingency Plan Update:** Performed the necessary research and documentation for the mandatory five-year update to the Depot's Integrated Contingency Plan which outlines the site locations and control of all hazardous materials.
- › **Industrial Waste Treatment Plant Evaluation:** Completed a study of the IWTP operations to evaluate the plant's processes, equipment, waste loading/flows and chemistry and prepared a report outlining to recommended plant modifications and upgrades.
- › **Master Planning Services:** Working with our Master Planning consultant, R&K Engineering, an assessment of existing conditions and development of requirements analysis were prepared in accordance with AR 210-20, Real Property Master Planning for Army Installations and in the Master Planning Instructions.
- › **Rail Dock and Spur, Lot 12:** Design of a rail loading dock and servicing rail spur at Lot 12. This dock is being utilized to load and off load military equipment that is being transported by railcar.
- › **Building 102 Renovations:** Prepared the design of renovations to convert an existing laboratory/ quality assurance building into a training center. These services included exterior and interior architectural, mechanical, electrical and telecommunications systems improvements.



- › **Guided Missile Maintenance Facility – Topographic Survey:** Performed a topographic and survey of an approximate 30-acre site and prepared an existing conditions site plan for future use for the design of the proposed new Guided Missile Maintenance Facility.
- › **Programming Documents, 1391 Preparation:** Working with the Depot's Master Planner, we provided services related to the development of 1391's for various MCA projects.
- › **Inland Node Facility – Topographic Survey:** Performed a topographic and survey of an approximate 16-acre site and prepared an existing conditions site plan for future use for the design of the proposed Inland Node Facility.
- › **Boundary Line Survey:** Completed a boundary survey for the transfer of approximately 220 acres of land from the Letterkenny Industrial Development Authority to Letterkenny Army Depot.
- › **Replace Culvert 53, Ammunition Storage Area:** Design and permitting for replacement of an existing deteriorated box culvert located under an existing railroad in Letterkenny's Ammunition Storage Area. Permitting involved a stream encroachment and erosion and sedimentation control plan approvals.
- › **Building 320, Evaluate Existing Heat Recovery Units:** Performed an evaluation and prepared a report outlining recommendations for the upgrade and replacement of nine heat recovery units serving the paint spray booths located in Building 320. This evaluation included the completion of an energy analysis along with recommendations for upgrades to the existing control system.
- › **Building 14, Second Floor Office Area:** Performed a structural evaluation and design of required modifications to renovate the Building 14 second floor area into office space. The Building 14 structural system is comprised of timber construction.
- › **Building 3, Upgrade Fire Alarm System:** Design of modifications to upgrade an aged fire alarm system serving an existing data center with new technology including central alarm panel and remote detection devices.
- › **Ammunition Storage Area, Electrical Distribution Upgrades:** Evaluation of existing electrical distribution system and the design of upgrades to this system which serves the entire Ammunition Storage Area. This work includes upgrading the original 1941 era system to 12.47 KV distribution voltage and replacing deteriorated poles, conductions, and associated appurtenances.
- › **Building 10, Commander's Building Façade Upgrade:** Renovations to the entrance of the commanders building.
- › **Recreation Area Activity Center:** Renovate and expand existing recreation area pavilion to include the construction of wood
- › **Command Flag Area Improvements:** Renovation to commander's site entrance area to include walks, grass,



sitting areas, flag poles, and the inclusion of the original LEAD iron gates.

- › **Building 349. Boiler Plant Modifications and Roof Replacement**
- › **Building 1. Restroom Renovations:** Renovation and upgrades to Restroom area including new floor plan to accommodate ADA requirements, new plumbing fixtures, ventilation and architectural finishes.
- › **Lot 12 Lumber Storage Building:** Design and construction of a storage shelter for construction materials used by LEAD DPW.
- › **Building 350. Office 4 Addition:** Design second story office space addition and tool storage room expansion
- › **Missile Storage Erosion and Sedimentation Plans**
- › **Integrated Contingency Plan Update:** Performed the necessary research and documentation for the mandatory five-year update to the Depot's Integrated Contingency Plan which outlines the site locations and control of all hazardous materials.
- › **Building 350. Office 1 Addition:** Design second story office space addition
- › **Child Development Center Sanitary Sewer Expansion:** Design the expansion of the existing sanitary to include the new construction of the Child Development Center and Family Housing Complex
- › **Buildings 37 and 57. Industrial Waste Treatment Sewer Rehabilitation:** Design includes the rehabilitation of this existing force main to include the re-lining of portions of this piping system along with the total replacement of those areas of the system that cannot be re-lined due to excessive deterioration. Included in this project will be the replacement of the associated appurtenances on this system such as clean-outs, blow off valves, manholes, pump station connection, etc.
- › **Buildings 3750 and 3750A. HMX Recovery:** The renovation of Building 3750 and 3750A to accommodate new equipment for the processing of warheads for the removal of explosive materials contained in these warheads.
- › **Buildings 357. Hazardous Materials Building:** Design addition to existing hazardous materials pavilion to provide controlled space for offices and work space for inventory control and shipping.
- › **Buildings 12. DISA/CSC Office Renovations:** Renovation of existing warehouse to office space for Defense Information Systems Agency (DISA) / Computer Science Corporation (CSC)
- › **Phase 1 Environmental Site Assessment of Adjacent Property**
- › **Environmental Awards PH3**
- › **MRAP Staging Areas:** Design and permit (4) long term staging / storage sites for 1000 Mine Resistant Ambush



Protected (MRAP) vehicles and associated parts and equipment.

- › **Building 2363, Addition and Renovations:** Renovate and upgrade existing building to include office space, break room, restrooms, and mechanical room for new mission support. Mechanical systems upgrades include new HVAC system, upgraded electrical system, and compressed air. Remove entirely and replace existing overhead.
- › **Building 5647, Addition and Renovations:** Expansion of the existing building to the south and east to accommodate additional office space, larger work area and overhead doors to accommodate larger shipping containers.
- › **Reasonably Available Technology (RACT) Analysis:** A Reasonably Available Technology (RACT) Analysis was conducted for the acid wash primer utilized in the painting operations to determine the feasibility of installing additional VOC emission controls. The RACT Analysis will be performed in accordance with the U.S. Environmental Protection Agency and PADEP guidelines.
- › **Building 397, Addition and Renovations:** Renovate South End of Building 397 for use as generator / compressor rebuild shop. Upgrade electric, fire sprinklers, lighting and all interior and exterior finishes.
- › **Building 321, Demolition and Reconstruction:** Demolish existing structure entirely and replace with new building for Mine Resistant Ambush Protected (MRAP) process line.
- › **Building 330, Renovations and Upgrades:** Enclose and renovate a portion of the south end of the building to provide work space for storage operations.
- › **Building 331, Renovations and Upgrades:** Enclose and renovate a portion of the north end of the building to provide work space for storage operations.
- › **Phase 1 Arch Survey PA Avenue:** Site design and permitting for container storage areas.
- › **Dock 2 Shipping and Receiving Office:** Construct administrative space between the south end of building 330 and the north end of building 331 to coordinate shipping and receiving functions at Dock 2.
- › **LEAD/LEMC AP Rocket Motor Destruction Facility:** Design and coordinate 2 building facility, site infrastructure, and equipment integral to the segmenting and burning of rocket motors
- › **Building 37, Make-Up Air System Replacement:** (Awaiting Direction) Remove existing roof top HVAC equipment and existing electrical service from distribution panel. Replace with new heated make-up air unit including new electrical service. Evaluate existing roof structure and provide any additional supports necessary to accommodate new loading.
- › **Building 1, DISA / FSO Secure Room (SCIF):** Multi-discipline engineering design for conversion of a Secure Room into a SCIF.



## Department of Defense Facilities

### U.S. ARMY CORPS OF ENGINEERS, BALTIMORE

#### ARMY RESERVE AVIATION FACILITY *Johnstown, Pennsylvania*

- › New 120,000 sq.ft. multi-building complex including an armed forces reserve center and an aviation maintenance shop

#### ARMY RESERVE CENTER *Berkeley, West Virginia*

- › New 300-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Morgantown, West Virginia*

- › New 300-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Wheeling, West Virginia*

- › New 284-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Rainelle, West Virginia*

- › New 200-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Weirton, West Virginia*

- › New 200-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Kennettville, Dorris, Kansas*

- › New 200-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Washington, Pennsylvania*

- › New 200-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Kingwood, West Virginia*

- › Maintenance shop

#### ARMY RESERVE CENTER *Campsville, West Virginia*

- › New 100-member reserve center with training building and maintenance shop

#### ARMY RESERVE CENTER *Elkins, West Virginia*

- › New 60-member reserve centers with training building and maintenance shop





**MORLOCK ARMY RESERVE CENTER** *Pittsburgh, Pennsylvania*

- › HVAC modifications

**COPELY ARMY RESERVE CENTER** *Gilbert, Pennsylvania*

- › Boiler addition

**STEELE ARMY RESERVE CENTER** *Pittsburgh, Pennsylvania*

- › Complete HVAC system replacement

**CAMP DAWSON** *Kingswood, West Virginia*

- › Three new billeting facilities

**LETTERKENNY ARMY DEPOT** *Chambersburg, Pennsylvania*

- › Six indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

**FORT RICHIE** *Fort Ritchie, Maryland*

- › Two indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

**AMMUNITION PLANT** *Scranton, Pennsylvania*

- › Upgrade lighting system in production shop

**911 AIRLIFT GROUP, GREATER PITTSBURGH INTERNATIONAL AIRPORT** *Pittsburgh, Pennsylvania*

- › Study and design of new Base Civil Engineer Facility
- › Indefinite delivery contract for architectural and engineering services

**U.S. ARMY CORPS OF ENGINEERS, NORFOLK**

**WALTER REED ARMY MEDICAL CENTER** *Washington, D.C.*

- › Energy engineering analysis program, main hospital building

**U.S. ARMY CORPS OF ENGINEERS, PHILADELPHIA**

**PHILADELPHIA, PENNSYLVANIA**

- › Tenant fit-up

**PA DEPARTMENT OF MILITARY AFFAIRS**

**FORD CITY ARMORY** *Ford City, Pennsylvania*

- › New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities





### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), NORTHERN DIVISION

NAVAL AIR STATION *Lakehurst, New Jersey*

- › Air conditioning tune-up study

NAVAL SHIP PARTS CONTROL CENTER *Mechanicsburg, Pennsylvania*

- › Administrative facility improvements

### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), CHESAPEAKE & ATLANTIC DIVISION

NAVAL RESEARCH LABORATORY *Washington, D.C.*

- › Three indefinite delivery contracts for mechanical, electrical, and structural engineering services (Chesapeake Division)

OCEANA NAVAL STATION *Virginia Beach, Virginia*

- › Energy monitoring and control system
- › Boiler plant modifications (Atlantic Division)

### NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC), SOUTHEAST DIVISION

P-8A INTEGRATED SIMULATION/TRAINING CENTER *Jacksonville, Florida*

- › New \$42.5 million, 165,000 sq.ft. operational training facility for a new Multi-Mission Maritime Aircraft (MMA)/P8-A located at the Naval Air Station; Project goal is LEED Gold



### DEPARTMENT OF GENERAL SERVICES

PENNSYLVANIA NATIONAL GUARD *Johnstown, Pennsylvania*

- › New 23,560 sq.ft. Regional Maintenance Facility

PENNSYLVANIA ARMY NATIONAL GUARD, 128TH BRIGADE SUPPORT  
BATTALION

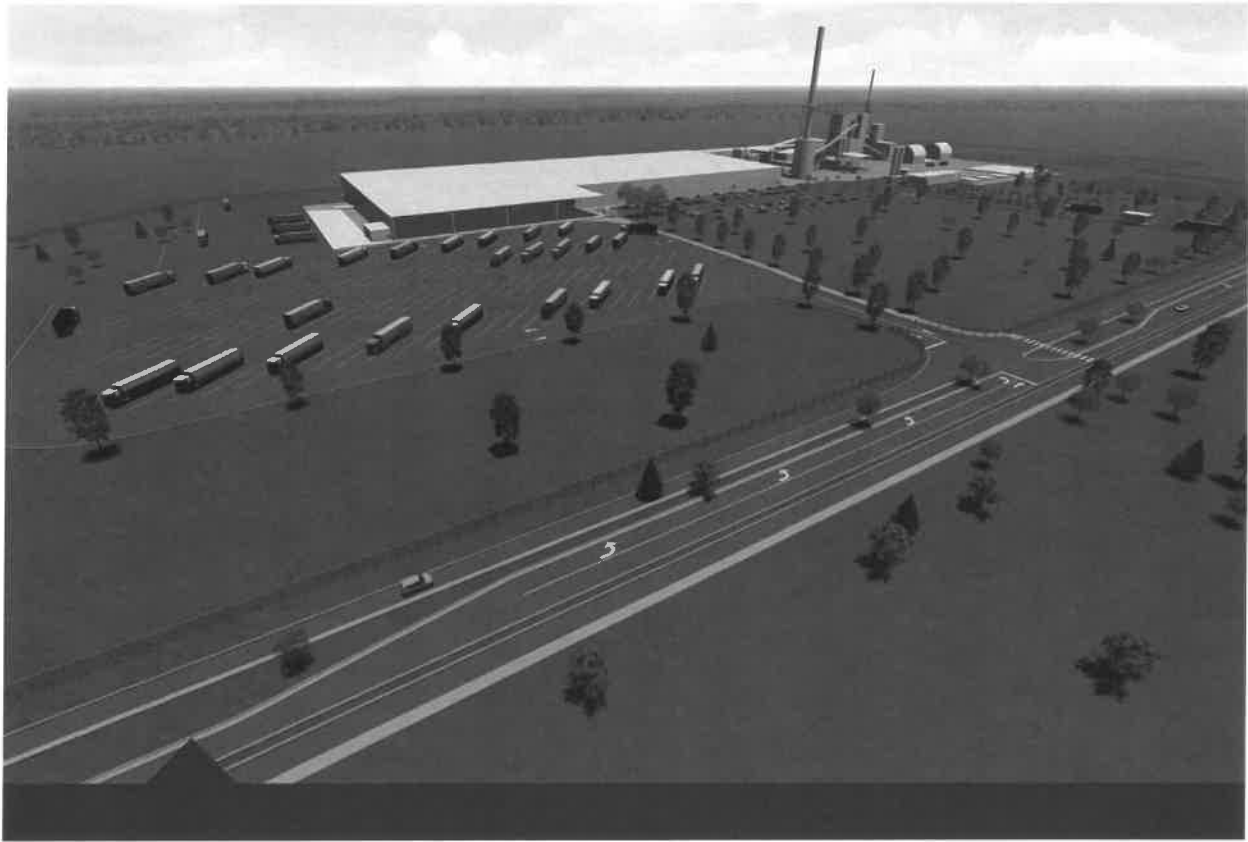
- › Renovation of the 26,700 sq.ft. Crane Readiness Center which houses 250 soldiers

PENNSYLVANIA ARMY NATIONAL GUARD, 107TH FIELD ARTILLERY  
BATTALION

- › Rehabilitation of 23,000 sq.ft. New Castle Readiness Center which houses approximately 120 soldiers



## PROJECT EXPERIENCE



### Rockwool Industrial Facility

The Thrasher Group has been involved in many aspects of work for the 130-acre Rockwool site. This is a large-scale project that requires constant monitoring and communication to ensure success.

Thrasher has provided all of the site engineering for the facility and worked with the West Virginia Division of Highways for completion of a 3,200 LF access road. The Utility Division has handled all of the

on-site and off-site utility coordination for Rockwool, working with the owner and local utility agencies to keep everyone apprised of progress and timelines.

In addition, Thrasher has overseen a number of permitting efforts, including NPDES permitting and MS4 permitting for the City of Ranson. Thrasher is also currently performing regular construction oversight, making consistent site visits, attending meetings, and providing general construction administration services.

The team has also provided regulatory and government consulting services by working with city officials to assure the project is completed by late 2020.

## PROJECT EXPERIENCE

### TeMa Manufacturing Facility Burr Industrial Park

Thrasher was hired to provide a variety of services for a new manufacturing facility in the Burr Industrial Park in Kearneysville, WV. This new facility is home to a 42,000 square-foot advanced manufacturing plant. Thrasher's scope of services for this project is wide and varied, but includes site assessments, survey, mapping, site design, and various construction services. The Thrasher team worked on NPDES and local Jefferson County permitting for the site. Additionally, stormwater, ingress/egress, loading dock design, and overall project coordination were large pieces of this project.





### West Virginia University Creative Arts Center Parking Lot Renovation

As part of our open-end contract for civil engineering services Thrasher was hired by WVU to study the effects of adding additional parking at the Creative Arts Center on the Evansdale Campus.

The University had 245 parking spaces at the Creative Arts Center. The upper lot consisted of 173 spaces in front of the CAC parallel to US19 (Mon. Boulevard) in two separate parking bays. The lower lot consisted of 72 spaces behind the CAC parallel to WV705 (Patteson Drive). There was no connectivity between these two parking lots. Due to the high demand for parking along the outer limits of the Evansdale Campus, the University had tasked Thrasher with providing conceptual designs to increase parking in the upper lot and design a connector road between the two parking lots that would enable the University to eliminate the access drive off of WV705.

After approval of our one of our conceptual design submissions, the University authorized Thrasher to prepare construction documents for the CAC Parking Lot renovation project. The project increased the University's parking capacity at the CAC to 362 parking spaces. Two additional parking bays were added to the upper lot, and one existing parking bay was modified to accommodate additional vehicles. Thrasher also incorporated a connector road through the parking lot to tie the upper and lower lots together. Thrasher was able to increase parking at the CAC by 117 spaces.

# SECTION 5

## WHY RWA?

### OUR TEAM

RWA has compiled an extremely experience team of experts, with proven track records, to execute this important project. Our team comprised of RWA, H.F. Lenz, The Thrasher Group, T-Construction & Consulting, and Ackenheil Engineering have the capability to provide the required design and estimating services needed to achieve a successful project. The RWA principals have extensive experience. They have a successful background in working with various clients on a multitude of project types including DOD, and government facilities. The RWA principals have worked on on-call and IDIQ projects for the USAF, Army Corp, US Coast Guard, DOE, City of Pittsburgh DPW, Allegheny County DPW, Pittsburgh International Airport, the Port Authority of Allegheny County, and PennDOT. H.F. Lenz has extensive Army Corp and DOD experience and will provide structural, MEP, and Fire Protection design. The Thrasher Group, headquartered in West Virginia, will provide the local knowledge, expertise, and design regarding site civil and permitting requirements within the area. T-Construction is extremely experienced at providing cost estimating within the region and has received notable awards for their accomplishments. They keep abreast of the construction climate and update their database regularly. RWA has worked on over a dozen projects with these firms and has a great working relationship with each firm because we all share the same goals of client satisfaction and design excellence.

### THE A-TEAM

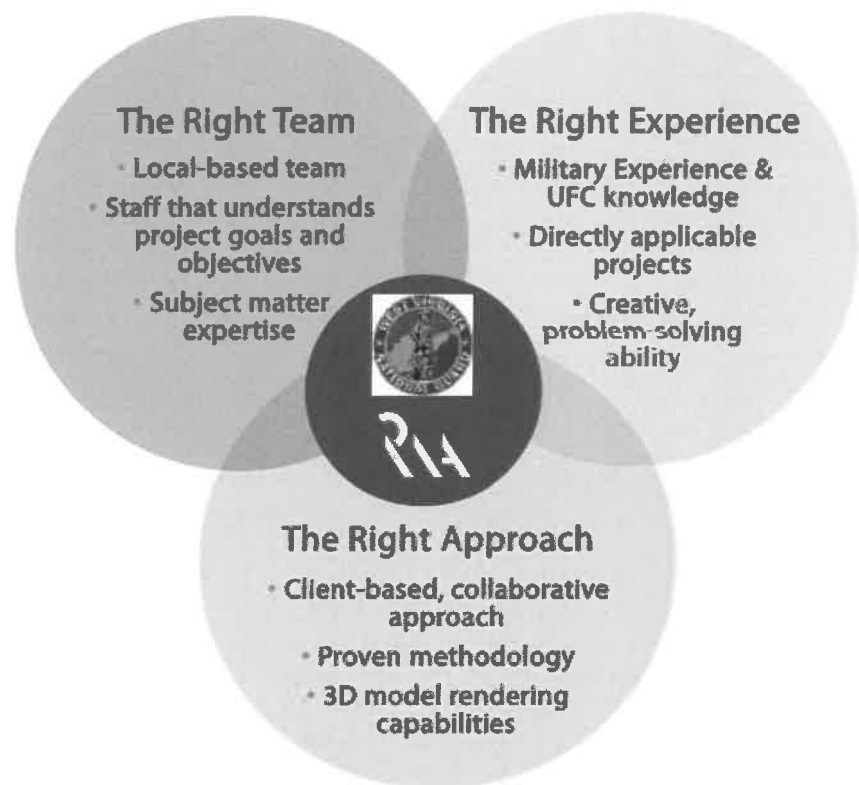
Unlike other firms, the RWA Team's principals are fully engaged in the project from start to finish. This provides the State and the WV Army National Guard the highest quality expertise and service throughout the project.

### COMMITMENT TO QUALITY EXECUTION

RWA implements a proven project management methodology that is based on key guiding principles:

- Open and effective communication with client and team members
- Client-based collaboration throughout the entire process
- Comprehensive understanding of project goals and requirements
- Quality assurance / quality control of all deliverables
- Meeting critical project objectives and project schedule milestones

RWA believes a project's success is based on exceeding our clients' expectations. RWA is dedicated in partnering with the State of WV and the WV Army National Guard on this project to deliver a high quality finish product.





# PROJECT APPROACH

## BUCKHANNON READINESS CENTER ADDITION

The RWA Team understands that the WV Army National Guard intends to expand the existing Readiness Center located at 929 Brushy Fork Road, Buckhannon, WV. The project is to provide needed additional space for the recently constructed facility as the current and future mission requirements have outgrown the existing building square footage.

The Team understands that the project will be completed in two phases. Phase One - 35% design and Phase Two - Final design and construction. Phase Two is dependent on acquiring the necessary funding to move forward with construction of the addition.

### GOALS AND OBJECTIVES:

Phase 1 - Provide 35% documents and cost estimate for an addition with the following programmed areas and support assets:

1. Permanent masonry structure.
2. Assembly Hall.
3. Classrooms.
4. Learning Center.
5. Kitchen.
6. Toilet and Shower Facilities.
7. Office Space.
8. Administrative Areas.
9. General Purpose Areas.
10. All necessary MEP systems.
11. Provide Anti-terrorism / Force Protection upgrades
12. Paved roads.
13. Concrete pads and walks.
14. Vehicle parking.
15. Energy conservation features.

## PROJECT APPROACH

This section of the proposal represents the Team's methodology and approach to the Readiness Center. The proposed scope of work is structured as follows:

- Project Management & Design Management
- Facility condition assessment
- Schematic design
- Design development
- Final design
- Bidding and construction

### PROJECT MANAGEMENT & DESIGN MANAGEMENT

Lizette Rios-Williams will serve as the project manager for RWA. Mrs. Rios-Williams offers more than 26 years of design and project management experience. She has served as project manager on facility projects for Public and Private clients throughout Pennsylvania.

RWA is qualified to provide the WV Army National Guard a superior level of service and expertise as Mrs. Rios-Williams will be responsible for managing the design efforts of the project, including establishing an effective project management plan, maintaining quality assurance/quality control, maintaining the project scope, schedule, and budget, and coordinating overall project communications and controls. Unlike with larger firms Ms. Rios-Williams, Principal-In-Charge, will be directly involved with day to day management and design on the project. Therefore, the project will receive a high level of expertise on a day to day basis.

The RWA Team will develop a Project Management Plan (PMP) that will define and describe our Team's management approach and the overall plan for managing the

*Unlike larger firms, RWA's principals will have daily responsibilities on the project.*

*Mrs. Rios-Williams (president) will function as the PM and Mr. Williams (Vice-President) who is a Certified Project Management Professional will function as the assistant PM and lead architect on the project. This level of experience and expertise will help drive a successful outcome.*

project. Typically, the flow of the project management process begins with initiation, followed by planning, executing, monitoring and controlling, and finishes with the project closing.

The RWA Team will develop and maintain a Quality Assurance/Quality Control (QA/QC) Plan for the project. Formalized QA/QC reviews will be conducted at the SD, DD, and CD milestones of the project.

# PROJECT APPROACH

## FACILITY CONDITION ASSESSMENT

RWA will begin the process with a detailed assessment of the existing conditions of the building. This process will provide the WV Army National Guard and the design team a better understanding of the facility which will help prioritize building investment.

The process will be as follows:

- Gather existing data on the facility
- Perform an on-site walk through and interviews with staff to understand the conditions and challenges of working in the facility.
- Compile the data and write a report.
- Report the findings of the building's deficiencies and/or infrastructure issues that need to be addressed and establish a path for the next steps.

Working closely with the Army National Guard, we intend to deliver the best solution for the available funds and the long-term use of the facility.

## NEEDS ANALYSIS AND PRIORITIZATION

### PROGRAM VALIDATION

RWA proposes to begin the design process with a programming and planning meeting that will validate and confirm that WV Army National Guard's current and future needs can be met based on the proposed program. We will review both overall elements, such as how the building will function, and the details of the daily operations.

A critical first step in design development is to validate the scope and needs for the project with the architectural and engineering disciplines to identify issues that may affect the functional design. An interactive programming session will be conducted with appropriate WV Army National Guard staff and the RWA Team discipline leads to establish the goals and constraints for the project, including space needs, critical features, circulation, system descriptions, and desired aesthetics of the facility.

The focus of this information gathering process will be to optimize all aspects

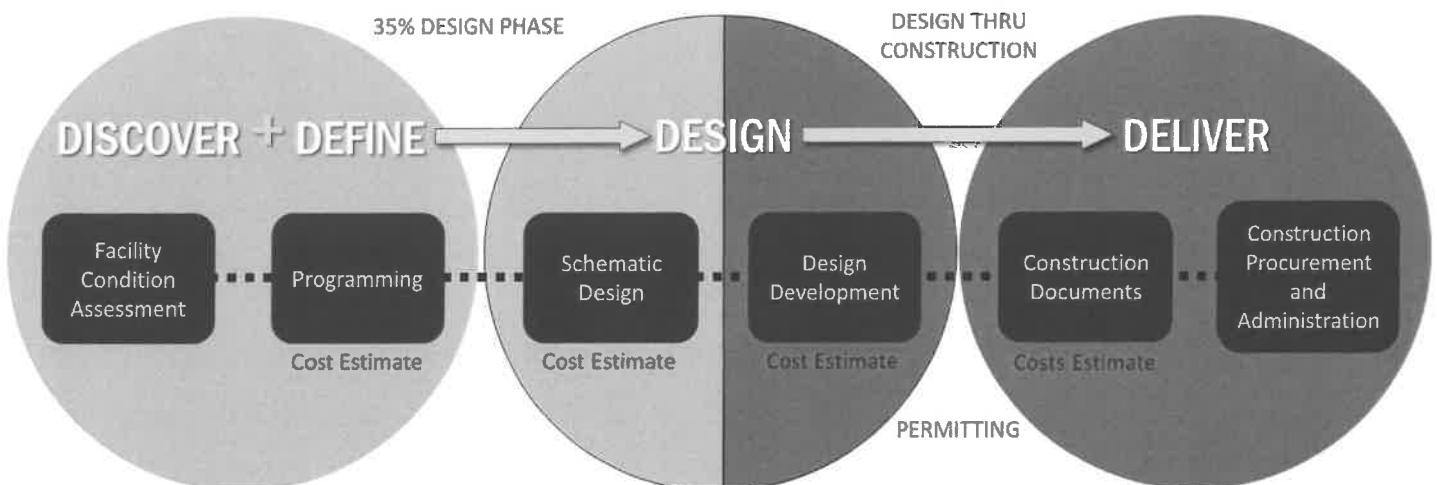
## PROJECT MANAGER

**Mrs. Rios-Williams brings more than 26 years of architectural and project management experience to WV Army National Guard. She consulted as a project manager for over 12 years. She brings a unique experience to the project with her incite regarding managing complex projects for quasi governmental agencies.**

of this facility and to integrate functions effectively and efficiently.

With the program requirements agreed and understood, we will perform a code analysis evaluating compliance according to applicable state and local building codes and regulations.

Engineering disciplines will collect and/or perform preliminary design calculations for necessary structural, HVAC, plumbing, fire protection, and electrical systems. These calculations



# PROJECT APPROACH

will form the basis for developing systems descriptions for major building systems and equipment.

## CONCEPTUAL OPTIONS

The RWA Team will evaluate the two options stated in the Program Statement and the results of the kick-off/programming meeting. We will prepare a conceptual level development package using block diagrams to represent functionality of circulation and spaces for review by the WV Army National Guard. The conceptual level development package will be reviewed with the WV Army National Guard in comparison to the criteria established during the programming meeting.

The WV Army National Guard will have the ability to modify the criteria based on the new information being presented for use in determining the concept to be recommended for design. We utilize Revit to help our users visualize space during the conceptual design phase.

At the completion of this phase our team will provide cost estimates for both options for the National Guard to review and determine which direction to pursue.

## SUSTAINABILITY

During this review, the RWA Team will also provide input on sustainable features that can be included into the project. If required, the RWA Team will develop technical memorandum that will outline the technical benefits of these systems.

These elements will only be carried forward should the Army National

Guard determine that they are of value. The RWA Team has experience with sustainable building projects and can provide a clear understanding of the cost and impact to the project.

## SCHEMATIC DESIGN

### SCHEMATIC BUILDING LAYOUT

A schematic building layout for the proposed design will show critical circulation and access elements, general arrangements of primary spaces, and equipment.

The site layout will be developed with emphasis on:

- Anti-Terrorism / Force Protection requirements
- Circulation patterns and access for pedestrians and personnel to provide the most efficient, cost-effective, and safest operation.
- Site area relationships, including POV and MEP vehicle access.

The facility layouts will emphasize:

- Circulation patterns within the facility.
- Functional area relationships
- Critical dimensions, space adjacencies, and support spaces including core service functions such as mechanical rooms, electrical rooms, telecommunication rooms, toilet facilities, and housekeeping.

Mechanical and electrical drawings will show general arrangement of equipment and location of primary utility runs.

During the schematic design phase our team will conduct site and soil evaluations that include:

- Geotechnical Investigation -

Soil core borings, testing, and a geotechnical report for the new building addition.

- Test Pit - A Test Pit will be required to test for stormwater infiltration rates.
- Survey - A topographical survey will be required to properly design, grade and manage stormwater for the parking lots and other various site improvements for ATFP.

## OPINION OF PROBABLE CONSTRUCTION COST

The RWA Team will develop a square-foot-based schematic level opinion of probable construction cost based on the schematic design documents.

## DESIGN DEVELOPMENT

It is anticipated that design development will not proceed until the preliminary design is approved and additional funding is secured by the Army National Guard. Once this occurs, the team will proceed with the design development phase, during which, the RWA Team will further define and describe important aspects of the project in preparation for construction documents. We will develop site permitting plans and fully develop design development drawings and specifications, including floor plans, sections, interior elevations, reflected ceiling plans, and critical details. The basic mechanical, electrical, plumbing, and fire protection systems will be shown. The deliverable will be a further development of the schematic design drawings and specifications that fix and describe the size and character of the project, as well as

# PROJECT APPROACH

any recommended adjustments to the preliminary opinion of probable construction cost. This phase will conclude with a formal review and approval by the Army National Guard.

## FACILITY DESIGN

The RWA Team will provide the following facility design tasks:

- Update the architectural plans, sections, and elevations to incorporate Army National Guard's comments and provide additional detail showing material selections and systems.
- Provide interior finish concepts that include floor, wall, and ceiling finishes for review and approval by the Army National Guard. Finish schedules will be developed from the selected finishes.
- Evaluate mechanical calculations for capacity of systems and provide design drawings showing locations of primary mechanical equipment, ductwork mains, piping mains, and general distribution routes.
- Develop electrical calculations and provide preliminary electrical power plans, lighting plans, and special systems plans, including security, phone and data.

## SPECIFICATIONS

The RWA Team will develop a first draft of the project specifications for submission with the design development documents.

## OPINION OF PROBABLE COSTS

The RWA Team will provide an updated opinion of probable construction cost based on the design development package.

## CONSTRUCTION DOCUMENT PHASE

It is expected that the described work in this phase will not proceed until the design development phase is approved by DGS/PA Army National Guard.

## CONSTRUCTION DOCUMENT PACKAGE

During the construction document phase, the RWA Team will prepare the drawings and specifications that set forth the requirements for construction of the project and assist the Army National Guard in preparing the necessary bidding and contractual information for the multiple prime construction. The construction documents will include drawings, specifications, contract forms and conditions, and bidding requirements.

We will submit the plans and permits to all agencies involved with the review and approval process necessary to obtain permits. RWA's project management Team will work with the Army National Guard to develop front end specifications, including the bid advertisement and general provisions for the construction contract. The RWA Team will provide an electronic version of drawings and specifications in PDF format.

Drawings and specifications will be provided for civil, architectural, structural, HVAC, plumbing, fire protection, and electrical work as required for project construction.

## OPINION OF PROBABLE CONSTRUCTION COST

The RWA Team will provide a final opinion of probable construction cost based on the construction document package.

## CHANGE ORDER REDUCTION

*We have found that using Revit during design can potentially reduce change orders during construction. This is accomplished by promoting efficient and effective design coordination with the assistance of conflict resolution tools to identify those issues. This software also provides our clients with the basis for a virtual building that can eventually serve to improve operations and maintenance for the life of the building.*



## BIDDING PHASE

The RWA Team will assist the Army National Guard in obtaining bids and preparing contracts for construction. In addition, the RWA Team will assist the National Guard during the bidding phase by providing the following services:

- Attending and assisting during the pre-bid meeting.
- Preparing addenda and errata to the bid documents.
- Developing written responses to RFI from bidders concerning the bid documents.
- Assisting the Army National Guard in the analyses of bid alternatives and substitutions that may be required.
- Assist the Army National Guard in bid evaluation.
- Assist in the review of qualifications of bidders.

## CONSTRUCTION PHASE

Administration of the construction contracts is invaluable to a quality project delivered on time. During the construction phase, the RWA Team will provide the following services:

- Provide conformed contract documents, which will consist of a consolidated set of drawings and specifications updated with all addenda as may be required.
- Assist the National Guard in evaluating value engineering proposals submitted by the contractor.
- Review, comment, and approve pertinent contractor submittals and shop drawings. This will be performed in accordance with construction contract requirements and will include checking principle dimensions

and conformance with contract documents and applicable standards. Mark shop drawings with comments, corrections, and/or additions, stamp, date, and sign, indicating approval or non-approval, and return within the time line established by the National Guard.

- Assist in evaluating, developing, and negotiating change orders.
- Project manager to visit the site at bi-weekly intervals appropriate to the stage of construction, conduct inspections, and recommend any changes in the work in cooperation with the National Guard.
- Provide project closeout services. In accordance with project closeout activities requirement, the RWA Team will assist in obtaining a certificate of occupancy with the appropriate entities.
- Assist the National Guard in obtaining as-built drawings and specifications for construction from the construction contractors.
- Coordinate all closeout-related activities with contractors.

SECTION 6

# QUALITY CONTROL

RWA's commitment to excellent client service is evident in the way we communicate, plan, and execute our projects. The projects we deliver to our clients meet a high-quality standard. Achieving quality for our clients also demands that we exceed their expectations for excellence in service and provide them with the correct solutions. At the same time, our projects must be successful from RWA's perspective, attaining business and technical excellence to sustain a strong future. Achieving a high level of excellence requires close attention to every decision, calculation, and action—for the life of the project.

All work performed by the RWA team will be conducted using a quality management process that is a series of QA/QC checks and verifications at each phase to confirm the team is providing a well-coordinated set of documents.

***Quality assurance consists of the written procedures that drive quality.***

Specific procedures start with a kick-off meeting to make sure that everyone understands the intent, objectives, tasks, budgets, schedules, milestones, and deliverables; the kick-off meeting also identifies the individuals who are responsible for implementing each part of the work. The quality assurance procedures also require a standardized checking process, including technical and constructability reviews. For the purpose of this project, the quality assurance plan will include the document control, file management for the team, and a communications plan.

***Quality control is the system for verifying that the quality assurance procedures are actually being implemented.***

Quality control activities are the actual checking and validation of the work product at every stage of its development. These critical activities include internal quality control reviews by senior experts; they also include a rigorous cross-checking process for making sure that all comments, revisions, or corrections to any contract documents (calculations, written text, design drawings, etc.) are correctly completed. This same checking process will also be used to document actions taken for all comments made by the WV Army National Guard, or other agencies. To maintain consistency, any assigned subconsultants will be required to comply with the RWA requirements in addition to their own established procedures.



***Quality is extremely valued amongst our team. RWA's quality control / quality assurance program provides a high level of coordination within the documents which leads to less ambiguity during bidding and construction.***

#### ***Document Control:***

***RWA has a standard document control plan for each project. It involves the use of standard BIM 360 for drawing version control, as well as a set of rules for dating and labeling documents and an established filing system.***

#### ***Configuration Management:***

***In every project, we have a set of project document templates, including meeting minutes and reports, to ensure all project documentation is consistent and easy to navigate.***

SECTION 7



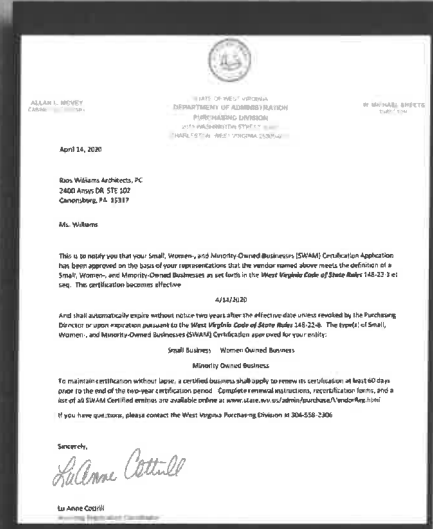
# DIVERSITY INCLUSIVITY PLAN

Rios Williams Architects, P.C. (RWA) has been certified by The State of West Virginia Department of Administration Purchasing Division as a Small Business, Woman Owned Business, and Minority Owned Business.

RWA makes an assertive effort to team with qualified experienced Small Business Enterprise consultants across all design disciplines. RWA has teamed with the following Woman Business Enterprise for this project:

- T Construction & Consulting has been certified by The Pennsylvania Unified Certification Program as a Disadvantaged Business Enterprise (DBE) Certification #10151, to participate in the program as a construction contractor, cost estimating company.
- Ackenheil Engineers has been certified by The Pennsylvania Unified Certification Program as a Disadvantaged Business Enterprise (DBE) Certification #10950, to participate as a engineering services, testing laboratories, computer systems design services and highway, street, bridges construction company.

Additional services may be required for this project and RWA, as the lead firm, will consider utilizing certified Small Businesses for any of the additional anticipated tasks.



**RWA, lead firm, is certified  
as a  
Small Diverse Minority  
Woman Business**

**Our Goal for Small Diverse  
Minority and Woman  
Business  
Participation:  
MBE + WBE > 30%**