

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

ekcoune, Robert M Ross Procurement Budgeting Accounts Receivable Accounts Payable	About
Addition Response(SR) Dept: 0705 1D: ESR02222200000004960 Ver: 1 Function: New Phase: Final Contract Default Values Discourt Information Clarification Request Frequent Type: Central Purchase Order Vendor ID: 000000164419 Legal Name: AE WORKS LTD Legal Name: AE WORKS LTD Alias/DBA: Total Bid: \$0.00 Response Date: 07270202	
Header () 1 General Information Contact Default Values Discount Document Information Clarification Request Procurement Folder: 989374 S0 Doc Code: CE01 Procurement Type: Central Purchase Order S0 Dec to: T075 Vendor ID: 00000164419 S0 Doc 1D: LorD220000003 Legal Name: AE WORKS LTD Published Date: 2/16/22 Alias/DBA: Close Date: 2/22/22 Total Bid: 50.0 Status: Close Date: Response Date: 0/22/20/2 Status: Close date:	
General Information Default Values Discount Document Information Clarification Request	
Contact Default Values Discount Decountent Information Clarification Request Procurement Folder: 98374 SO Doc Code: CEOI Procurement Type: Central Purchase Order SO Doc Code: CEOI Vendor UP: Contral Purchase Order Vendor UP: Output of the second of the secon	List View
Procurement Folder: 989374 S0 Doc Code: CEOI Procurement Type: Contail Purchase Order S0 Doc ID: 10720000003 Vendro ID: 00000164419 S0 Doc ID: LOT220000003 Legal Name: AE WORKS LTD Published Date: 2/16/22 Alias/DBA: Close Date: 2/22/22 Total Bid: S0.0 S0 Doc Time: 13:30 Response Date: 02/22/022 Status: Closed	
Procurement Type: Central Purchase Order SO Dept: 0705 Vendor ID: 00000164419 Coord Dept: SO Doc ID: LOT220000003 Legal Name: AE WORKS LTD Alias/DBA: Close Date: Total Bid: \$0.00 Response Date: 02/22/2022	
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Alias/DBA: Total Bid: \$0.00 Response Date: 02/22/2022 Status: Closed	
Total Bid: \$0.00 Response Date: 02/22/2022	
Status: Closed	
Solicitation Description: Addendum No. 2 A/E SVCS FOR PHYSICAL SECURITY SYSTEM	
Responded By User ID: aeworks	
Total of All Attachments: 1	
Last Name: Khanna	
Email: carly@aeworks.com	
Phone: 412-287-7333	



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

State of West Virginia Solicitation Response

Proc Folder:	989374	989374				
Solicitation Description:	Addendum No. 2 A/E SVCS FOR PHYSICAL SECURITY SYSTEM					
Proc Type:	Central Purchase Order					
Solicitation Closes Solicitation Response Version						
2022-02-22 13:30 SR 0705 ESR0222220000004960 1						

VENDOR					
000000164419 AE WORKS LTD					
Solicitation Number:	CEOI 0705 LOT2200000003				
Total Bid:	0	Response Date:	2022-02-22	Response Time:	12:04:29
Comments:	Per the RFP, we have not included attachment.	pricing information.	Our response to the e	evaluation factors is inc	luded in the

FOR INFORMATION CONTACT THE BUYE	R
Toby L Welch	
(304) 558-8802	
toby.l.welch@wv.gov	

Vendor Signature X

FEIN#

DATE

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

Line	Comm Ln Desc	;	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional en	gineering services				0.00
Comm	n Code	Manufacturer		Specifica	ation	Model #
811000	000					

Commodity Line Comments: Per the RFP, no pricing information has been included. Our methodology for physical security enhancements is included in pages 12-23 of our response attachment.

Extended Description:

In accordance with W. Va. Code 5G-1-1 (et seq) WV Lottery seeks A/E Services for a methodology for physical security enhancements for WV Lottery HQ and other facilities as described herein.

Vendors must enter a grand total amount in the Contract Amount Section



AE WORKS.

Making Building Projects a Better Value

nergency

THE STATE OF WEST VIRGINIA

The West Virginia Lottery Commission A/E Services for Physical Security System

Prepared by:

AE Works Ltd. 418 Beaver Street Sewickley, PA 15143 aeworks.com

Due Date: February 16, 2022

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2. QUALIFICATIONS, EXPERIENCE, AND PAST PERFORMANCE......24 - 41



West Virginia Lottery CEOI 0705 LOT2200000 003 Department of Administration Purchasing Division 2019 Washington Street Charleston, WV 25305 Attn: Toby L. Welch

A/E Services for Physical Security System Solicitation No: CEOI 0705 L0T2200000003

Dear Mr. Welch,

On behalf of AE Works Ltd., a *WV SWaM-certified Service-Disabled Veteran-Owned Small Business (SDVOSB)*, I am pleased to submit our proposal and indicate our interest to provide A/E services for the enhancement of your physical security systems campus-wide. We believe our team's extensive physical security and assessment experience combined with our depth of multi-campus and building design and planning will prove beneficial in the successful completion of this project. **For your consideration, we offer the following key qualifications:**

A Team with Extensive physical security system design and expertise:

- AE Works has completed physical security assessments for over 15M-SF in addition to nationwide safety and security evaluations and multi-building security system assessment, design and upgrade projects.
- Our experience has given us a strong understanding of up-to-date security standards and processes, including the latest technology for Electronic Security Systems and integration of Crime Prevention Through Environmental Design (CPTED) principals and applications of Anti-terrorism Standards.

A full-service team and specialized experts: AE Works brings a complete team of experts to support this project. This team includes:

- **Experienced Project Manager and Certified Protection Specialist** with years of assessing government facilities for security, providing mitigation measures and leading electronic security system upgrade solutions.
- **Registered Engineers** experienced in multi-campus integrated security system planning and design and infrastructure upgrades.
- **Registered Architect** with specialized expertise in secure government facilities ranging form 911 centers and emergency operations facilities to sheriff headquarters and specialized training facilities.

1



West Virginia Lottery

CEOI 0705 LOT2200000 003

A holistic approach to security:

• What sets AE Works apart is that we are an architecture, engineering and security risk management firm that offers a holistic approach to security. In the event of a building vulnerability, we have an ability, due to our in-house architecture and engineering capabilities, to go further in our impact analysis and design.

The results we produce are developed by professionals seeking to answer complex problems through visioning the future, strategic planning, and high performing execution. Our team's extensive technical knowledge, proven security risk management, and architecture and engineering capabilities provide a solution fitted precisely to the needs of the WV Lottery.

We appreciate this opportunity to present our qualifications. Please do not hesitate to contact me should you have any questions regarding our qualifications.

We acknowledge receipt of Amendments 1 and 2. A signed acknowledgement form is included in the following pages.

Sincerely,

Richard W. Witt, Jr., AIA Sr. Vice President and Chief Client Officer rick@aeworks.com | 814.242.0489



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

State of West Virginia Centralized Expression of Interest Architect/Engr

Proc Folder:	989374		Reason for Modification:		
Doc Description:	Addendum No. 2 A/E SV	Addendum No 2 is issued to publish a copy of questions and responses.			
Proc Type:	Central Purchase Order				
Date Issued	Solicitation Closes	Solicitation No	Version		
2022-02-16	2022-02-22 13:30	CEOI 0705 LOT220000003	3		
BID RECEIVING L	OCATION				
BID CLERK					
DEPARTMENT OF	ADMINISTRATION				
PURCHASING DIV	ISION				
2019 WASHINGTO	N ST E				
CHARLESTON	WV 25305				
US					

VENDOR

Vendor Customer Code:	000000164419
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Vendor Name : AE Works Ltd.

Address: 418 Beaver Street

Street :

City : Sewickley

State : PA

Principal Contact : Richard Witt, Jr., AIA

Vendor Contact Phone: 814.242.0489 cell

Extension:

FOR INFORMATION CONTACT THE BUYER Toby L Welch (304) 558-8802 toby.l.welch@wv.gov

/endor Signature X	TRA	6	FEIN# 26-3588935	February 22, 2022
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Page: 1

Country: U.S.

15143

Zip:

3

ADDITIONAL INFORMATION

Addendum No 2 is issued for the following reasons:

1) To Publish a copy of Vendor questions and responses.

no other changes

INVOICE TO		SHIP TO		
LOTTERY PO BOX 2067		LOTTERY 900 PENNSYLVANIA AVE		
CHARLESTON US	WV 25327-2067	CHARLESTON US	WV	25302

Line	Comm Ln Desc	Qty	Unit Issue
1	Professional engineering services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

In accordance with W. Va. Code 5G-1-1 (et seq) WV Lottery seeks A/E Services for a methodology for physical security enhancements for WV Lottery HQ and other facilities as described herein. Vendors must enter a grand total amount in the Contract Amount Section

SCHEDU	LE OF EVENTS		
Line	<u>Event</u>	Event Date	
1	Questions are due by 4:00 p.m.	2022-02-08	

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SOLICITATION NUMBER: CEOI LOT220000003 Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as ("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
- $[\checkmark]$ Attachment of vendor questions and responses
- [] Attachment of pre-bid sign-in sheet
- [] Correction of error
- [] Other

Description of Modification to Solicitation:

Addendum No 2 is issued for the following reasons:

- 1) To Publish a copy of Vendor questions and responses.
- no other changes

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

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 LOT22*3

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.

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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)

[2	x]	Addendum No. 1	1]	Addendum No. 6
[x	1	Addendum No. 2	I]	Addendum No. 7
1]	Addendum No. 3	Į,	1	Addendum No. 8
l	1	Addendum No. 4	1	1	Addendum No. 9
I]	Addendum No. 5	1	1	Addendum No. 10

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



NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012 **DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

7

	1 Apr	p	Chief	Client	Officer		
(Name, Richard	Title) d Witt, Jr.	J AIA -	Chief (Client (Officer		
(Printed 418 Be	l Name an aver Street	d Title , Sewi	e) .ckley, I	PA 151-	43		
(Addres 814.24	ss) 2.0489 cel	1					
(Phone rick@a	Number)	(Fax)	Numbe	er)			
(email a	address)						

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

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

AE Works Ltd. (Company) (Company) (Chief Client Officer (Authorized Signature) (Representative Name, Title) Richard Witt, Jr. AIA - Chief Client Officer (Printed Name and Title of Authorized Representative) February 16, 2022 (Date) 814.242.9489 cell (Phone Number) (Fax Number)

Revised 01/18/2022

STATE OF WEST VIRGINIA Purchasing Division PURCHASING AFFIDAVIT

8

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

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

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

DEFINITIONS:

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

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

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

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name:	Works Ltd	5	1				
Authorized Signature:		FAR	p		Date:I	ebruary 16, 2	2022
State of Pennsyl	vania	1	L				
County of Allegh	eny	, to-	wit:				
Taken, subscribed, an	nd sworn to	before m	e this day of	February	-	, 20 _22.	
My Commission expir	es April	14		, 20 23.	00	1	\bigcap
AFFIX SEAL HERE	Commonwea Joar My comm Comm Member, Pen	Ith of Penns in Rizzo, Ne Allegheny (ission expir hission num nsylvania As	ylvania - Notary Sea Dtary Public County es April 14, 2023 ber 1260921 sociation of Notaries	OTARY PUBLIC	J Pu	Inchasing Affiday	(Revised 01/19/2018)



STATE OF WEST VIRGINIA DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WEST VIRGINIA 25305-0130

W. MICHAEL SHEETS DIRECTOR 9

July 19, 2021

ALLAN L. MCVEY

CABINET SECRETARY

AE WORKS LTD 418 Beaver St. Sewickley, PA 15143

JoAnn Rizzo:

This is to notify you that your Small, Women-, and Minority-Owned Businesses (SWAM) Certification Application has been approved based on your representations that the vendor named above meets the definition of a Small, Women-, and Minority-Owned Businesses as set forth in the *West Virginia Code of State Rules* 148-22-1 et seq. This certification becomes effective:

07/19/2021

And shall automatically expire without notice two years after the effective date unless revoked by the Purchasing Director or upon expiration pursuant to the *West Virginia Code of State Rules* 148-22-8. The type(s) of Small, Women-, and Minority-Owned Businesses (SWAM) Certification approved for your entity:

Small Business

To maintain certification without lapse, a certified business shall apply to renew its certification at least 60 days prior to the end of the two-year certification period. Complete renewal instructions, recertification forms, and a list of all SWAM Certified entities are available online at www.state.wv.us/admin/purchase/VendorReg.html.

If you have questions, please contact the West Virginia Purchasing Division at 304-558-2306.

Sincerely,

Pline

Terra Oliver Vendor Registration Coordinator

CERTIFICATE OF uthorizatu STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby certifies has complied with section \$30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of January 1, 2022 - December 31, 2023 iding for the practice of engineering services in the State of West Virginia. IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE. PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION. IN TESTIMONY WHEREOF. THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD. Gott E. Thomas HARLESTON BOARD PRESIDENT

ACORD	

CERTIFICATE OF LIABILITY INSURANCE

11 DATE (MM/DD/YYYY) 10/07/2021

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А	AUTOS ONLY AUTOS			CA10521809		10/05/2021	10/05/2022	BODILY NJURY (Per accident)	\$	
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Emergency

1. PROJECT AND GOALS

EAM INTRODUCTION	13-14
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1.1 DESIGN SERVICES	. 15 - 19
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Altoona VA Replace Keying System involved expansion of existing electronic security system into 15 additional buildings

Team Introduction

AE Works - Project Management, Physical Security, Architecture, Engineering (Security / Technology Systems, MEP), Cost Estimating, Construction Administration.

AE Works brings 14 years of government and institutional project experience. Experience spans 200+ projects in *all* 50 states for a range of agencies. With a consistent record of very good evaluation ratings, we bring the proven processes and experience to mitigate risk to the government and meet budget and schedule requirements.

This experience includes on-call, Indefinite Delivery Indefinite Quantity Contracts with some of the country's largest government agencies, including National Institutes of Health, Nuclear Regulatory Commission, Armed Forces Retirement Home and Department of Veterans Affairs. Local public experience spans assessment of public safety facilities, development of a sustainable lighting code for the City of Pittsburgh, and laboratory design to support changing protocols in water quality testing. The majority of these projects involved physical security systems. **Our Team Goal:** Better efficiencies, ideation and trust from a diverse team united by a strong culture of innovation and entrepreneurial spirit.

The Result: Increasing the return on investment of capital projects.

AE Works is a partner whose combined value proposition is a comprehensive consulting service that delivers greater value for our Clients. Better value is found by unlocking latent value discovered by teams built of differing expertise.



Canandaigua VA Medical Center, Call Center. Project involved Physical Security Access Control and integration of CPTED principles.

AE Works leverages the diverse expertise and perspectives of various professionals as one team. AE Works team has on staff:

- Security professionals who evaluate your projects for workplace safety and mitigation of potential hazards like natural disasters.
- Architects and interior designers who can creatively vision your project from concept through construction documentation and provide the materials needed for communicating your project to your stakeholders.
- Engineers who can solve building systems problems and design for a more sustainable performance of your capital projects from buildings to infrastructure.
- Construction professionals that can help with estimating and scheduling for projects and provide oversight with Owners Representation or as Construction Managers.

ABOUT STAHL SHEAFFER

- Morgantown, WV office
- Providing professional services in West Virginia for the last 16 years.
- 9 Professionally Registered staff in West Virginia
- Teaming with AE Works on 12 projects

Stahl Sheaffer - Structural Engineering

Stahl Sheaffer is a multi-disciplinary engineering firm that has been providing engineering design and inspection services for agencies and private clients throughout West Virginia since their founding in 2006.

Experience includes projects for West Virginia Department of Transportation, West Virginia State Department of Administration, West Virginia University in addition to significant relevant experience with local governments, private clients, and K-12 school projects in West Virginia.

StahlSheaffer Engineering



Project Management and Quality Control

1. The Lottery is seeking for Vendor to provide complete design (architectural and engineering) and to prepare construction bid documents for the Owner for an integrated security system for each of the Lottery facilities mentioned.

Mission assurance is a core responsibility of every organization. We understand the complexity of the threats and risks facing organizations today and offer an inclusive process to security risk management consulting that incorporates the latest methodologies and technology for mitigation.

Our security risk professionals understand the delicate balance between security, efficiency and aesthetics. We deliver security options that integrate seamlessly with your physical spaces. Our results are focused on creating stunningly beautiful, highly functional and safer spaces.

In addition to our team's comprehensive process for Physical Security projects, what sets AE Works apart is that we're an architecture, planning, engineering and security risk management firm that offers a singlesource, integrated solution for all building and security needs.

As practicing architects, planners, engineers and physical security professionals, we understand the domino effect of facility vulnerabilities. Our team has the knowledge and experience to support physical security surveys with facility and code requirement analysis. For example, if there is a requirement for HVAC analysis or data center backup power, our engineers can look at a system and bring their understanding of air flow distribution, electrical requirements and other system needs to strengthen our physical security analysis.

Furthermore, our heavy integration between security and electrical design means we do not have to subcontract either engineering or security services. These functional areas work together daily on numerous projects. Complete construction documents will be stamped by an AE Works' Professional Engineer.

A FULL-SERVICE IN-HOUSE TEAM TO PROVIDE A COMPLETE DESIGN

- Certified Physical Security Professional
- Certified Protection Professional
- Registered Communications Distribution Designers
- Registered Engineers –including registered Professional Engineers with security system experience and Registered Structural Engineers
- Registered Architects with public safety and local government facility design expertise
- Estimators with Construction Management backgrounds

SECURITY ASSESSMENT EXPERIENCE

- Government Physical Security Assessments spanning over 15M-SF
- Nationwide safety and security evaluations in **all** 50 states
- Multi-building and campus-wide security system assessment, design and upgrades

KNOWLEDGE-BASED CONSULTING

- Crime Prevention Through Environmental Design (CPTED)
- UFC 4-010-01 DoD Minimum Anti-terrorism Standards
- Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings, 2nd Edition (Dept. of Homeland Security)
- A How-To Guide to Mitigate Potential Terrorist Attacks Against Buildings (2005, FEMA)



We recommend beginning a security system design project like yours with an investigation of the facilities and an understanding of how your organization operates. Security should support operations. Operations should not have to work around security measures.

We then proceed to complete an on-site survey of the facility. This is done with the users of the space. It is important to get the perspective of people who use the space. Users will find the most efficient way of moving through a facility. If security doesn't account for user efficiency, users are likely to introduce vulnerabilities such as propping doors, deactivating locks or sharing credentials.

We will then present options for courses of action to achieve the project's security objectives. In past projects, we were able to achieve a higher level of security just by moving offices around.

If this level of investigation is not desired, we can begin a more traditional design process. We will visit the facilities, assess the current systems, contact vendors for market research, and propose a basis of design for the security system upgrade.

As a part of AE Works' building design work, security system design, upgrade or replacement is typically a part of renovation projects. Experience includes several multi-building security system upgrade projects. Examples include: Physical Access Control at the Bath VA Medical Center, which involved a 25-building security system upgrade; multi-campus upgrade in Lexington, KY and physical security assessment; and mitigation options to upgrade security systems at Pennsylvania Dept. of General Services buildings.

Electronic safety and security expertise includes:

- Access control CCTV, biometrics, fingerprint scanning, retina scanning
- Video surveillance
- Intrusion detection
- Fire alarm

The below chart highlights AE Works' experience completing physical security assessments and complete design services for security systems.

PROJECT	RELEVANT FEATURES
State Government Campus Physical Security Assessment	Physical Security survey completed during day and night. Anti-terrorism plan improvements provided. Policy analysis to assist client in obtaining funds to make upgrades. Recommendations to mitigate vehicular hazards and enhance safety while maintaining open campus feel.
Canandaigua VA Medical Center, Call Center Renovation	24/7 call center. Design integrates CPTED principles. PACS badge access system tied to employee PIV cards and a security camera at each floor entrance/exit to record a frontal view of those entering and/or exiting the space. Integrated 40kVA UPS to ensure clean, uninterruptable power
PA Turnpike – Violations Processing Center	Design of the low voltage systems, including Fire Alarm, CCTV and Security Systems to support 46,000-SF renovation of an existing building to accommodate the space and facility needs associated with a Processing Center.
Western Pennsylvania All Hazards Fusion Center	Renovation of existing space to provide mission critical spaces for law enforcement agencies working together on emergency situations. Project meets Homeland Security requirements. Specific design details involved: modification of the existing walls to create a new secure room, new doors with electronic lockable hardware, interior finishes, as well as electrical and HVAC upgrades.



PROJECT	RELEVANT FEATURES
Chicago VA Medical Center, Upgrade Electronic Security Systems	Design and construction period services for multi-campus, multi-building Electronic Security Systems design to include replacement of existing Physical Access Control, Intrusion Detection, and Intercommunication Systems for 10 locations in total.
Clark Co. School District, Security System Upgrade	Construction documents and project administration for the installation of a new TCP/ IP based video surveillance system (CCTV) employing an enterprise video management platform.
Lexington VAMC Physical Access Control, Site Security Upgrade	2 campuses, 4 outpatient clinics. Security & technology systems. Access control and perimeter security. Dual redundancy, multiple control points
Altoona VA Medical Center, Replace Keying System for Outbuildings	Expands existing electronic security hardware currently used in Building 1 into fifteen (15) buildings on campus with new installations of the SALTO Wireless Lockset Hardware. Additional upgrades include installation of a new SALTO system service to provide additional capacity for all new devices and additional optical fiber infrastructure.
Physical Access Control, Site Security Upgrade, Bath VAMC	Multi-building, campus-wide access control, perimeter security. Digital technology, command and control centers.
PACS and Site Security Philadelphia VAMC	Multi-building, campus-wide access control, perimeter security for 1.5M-SF
Physical Security Survey, VISN 10 (5 campuses)	CPTED, incorporation of findings into facility master plan. 5.2M-SF assessed. Application of security requirements, including concentric levels of control and protection. Blast study, including build of model and simulation
Physical Security Assessment, Nashville and Murfreesboro VAMC	1.5M-SF assessed. Risk assessment, report and mitigation options. Night assessments Application of security requirements, including concentric levels of control and protection. Estimating of mitigation options. Application of CPTED principals
Memphis VA Medical Center, Physical Security Assessment	Physical security assessments of Eight (8) buildings, 1,179,905-SF. Risk assessment, report and mitigation options. Night assessments. Application of security requirements, including concentric levels of control and protection. Application of CPTED. Completion of estimates for mitigation options
PA DGS, Veterans Home System, Tele-security Upgrades	System-wide tele-security system upgrades in 6 different locations.



AE Works' Quality Control Plan

Leadership...Craftsmanship...Integrity...The core values of AE Works. AE Works' President Michael Cherock, PE started AE Works focused on those exact values instilled upon him during his time in the Navy. Those exact values are the foundation of AE Works' Quality Assurance / Quality Control (QA/QC) Plan. With a full-service offering, AE Works believes that different perspectives, ideas and feedback enhance the design process. In this collaborative framework and connected with our core values, QA/QC processes are essential to our design process.

We develop a Project-Specific QA/QC Plan for each project that each team member contributes to developing. This plan outlines expectations and QA/QC activities such as milestone reviews and budget and schedule controls, complete with constant monitoring with prompts for any deviation.

PROJECT MANAGEMENT

We view Project Management as a dedicated and specific technical discipline. Our Project Manager is responsible for administering and managing our QA/QC process outlined below:

QUALITY MANAGEMENT PROGRAM

AE Works defines Quality Control, as activities performed by the Project Team to produce a document that meets the accepted Professional Standard of Care required by that practice. The Standard of Care and the level of quality of services of each discipline are the responsibility of AE Works' professionals with working knowledge in their disciplines. AE Works' physical security specialists, designers, architects and engineers maintain engagement with professional associations specific to their disciplines by attending conferences, workshops and on-line seminars to earn continuing education credits and stay up to date on changes to standards.

AE WORKS TOOLS, PROCESSES & TECHNOLOGIES TO SUPPORT QA/QC

- Regular Communications, Meetings
- Shared communications Procore
- Detailed work plan, constant updates
- Multi-Disciplinary Peer Reviews by "fresh set of eyes"
- Staff Training Avg. 40-Hours of CEUs firm-wide
- Internal charrettes, interactive design reviews
- BIM Technology
- Project Services Team with Construction Backgrounds = "in the field" perspective on phasing, constructability, cost, and biddability



DOCUMENT REVIEW

To further support QC, we have a detailed document checklist to ensure that the right people review the documents for the right items. We use Bluebeam Studio for live QA/QC interactive sessions. This tool can be used by AE Works, client and team, allowing all parties to see and respond to comments – and house all the information in one place.

Phase		Documentation Reviewed	Firm Leadership Sign-off	Date	
EDM Daving Development Decomposity					
nue nenflu neverobure	ent Docu	ments	-		
	1	Submission Drawings	-		
	2	Submission Narrative			
	3	Submission Estimate of Construction Cost	Sec. all		
	4	CPM Schedule	1		
			4		
95% Construction Docu	iments				
	1	Response to previous submission's VA comments			
	2	Submission Drawings			
	3	Submission Specifications			
	- 4	Submission Narrative			
	5	Submission Estimate of Construction Cost			
	6	CPM Schedule			
	100				
	10.				

QUALITY ASSURANCE

AE Works defines Quality Assurance as the organized system of actions taken by project-independent individuals (not part of the Project Team) Peer Reviewers to verify that quality control is effectively exercised by confirming objectively that the deliverable meets the professional standard of care for each discipline. This independent review provides assurance that the deliverable will satisfy the given requirements for quality by applying a fresh set of eyes. For each task, Peer Reviewers will be selected for their backgrounds and recognized familiarity with required professional standard of care for their disciplines.

In addition to these reviews, to better enable the determining whether a project is biddable and buildable, AE Works has an in-house Project Services Group with staff that offer backgrounds in construction management, facility management and maintenance as well as providing owner's representative services to support our QA/QC with an "in the field" perspective on phasing, constructability, cost, and biddability.

2. Design a security solution that will integrate new components and/or new technologies with/ or replace pre-existing door locks, security cameras, fire alarm, call boxes, panic buttons, a mass notification mechanism, motion sensors and other technologies to secure and protect the Lottery facilities and employees from potential threats.

Following an on-site survey, we will meet with management and the project leadership to present findings and a tentative course of action. Meeting prior to leaving the facility allows us to revisit areas with our clients where there are questions. This is a lot more effective than trying to resurvey spaces remotely or discuss findings over a zoom call.

Once the initial survey is done, we will progress the agreed upon design courses of action. We will contact vendors and do appropriate market research before selecting systems to use as the basis of design. When doing market research it is important to factor in the manufacturer's local service capability and reputation. Prompt response times for service are a must.



Jesse Brown VAMC - Chicago, IL Security System Upgrades in 18 buildings in 10 locations



We provided this level of service at the Department of Veterans Affairs campus in Chicago, IL (*project case study included in Section 2*). This project required us to replace and expand the existing access control, intrusion detection, and panic button systems.

AE WORKS.

We had to integrate with a video system that was being installed under a separate project. We evaluated a number of manufacturers for compatibility, and proposed a basis of design that required no custom interfaces or additional hardware. The local manufacturer representatives were responsive and eager to do the work. Intensive field work and upfront planning effort before design began contributed to what the client project manager referred to as her "smoothest running project."

AE Works Client Satisfaction

Lexington VAMC Site Security and PACS

"AE Works design team has provided design submittals that are complete. The design team performed extensive site investigation and researched the various requirements pertinent to the design. Though the research AE Works were able to provide wellreasoned recommendations to the VA Medical Center so that decisions could be made on meeting all VA and federal policies concerning PACS and site security. A-E Works is very knowledgeable in Physical Access Control Systems that are compliant with the VA Homeland Security Presidential Directive-12 (HSPD-12) Program."

- Matthew Whisman, Lexington VAMC Contracting Officer, Evaluation excerpt



3. The security solution and fire alarm system should include technical support and regular maintenance and on-site training for Lottery security staff on how to use the system.

After market research, we will propose a vendor that operates in the area and whose local reputation is strong. Proximity is an important factor - a vendor with a great staff and excellent reputation is not going to be useful if the nearest service staff are too far away to provide same day service on emergency work orders.

Training is included in the performance specification we will write in the design documents. Modern security systems are intuitive and basic operator proficiency can be achieved in a short amount of time.

As an example of AE Works' team's attention to maintenance and operations, for the **Clarke County District Security Upgrade, Clarke Co. VA**, this critical school security project involved planning and design for the installation of a new TCP/IP based video surveillance system (CCTV) that serves as a unified district-wide security management platform for the school district. The network architecture selected for this project was to offer maximum efficiency in protecting more than 1200 students.



The selected application needed to incorporate the flexibility of a scalable platform which could provide consistency in user operations at a lower cost to ownership, while at the same time providing a command and control capability of all video surveillance system cameras deployed within the school district remotely from

AE Works Client Satisfaction

Tele-security Improvements to 6 PA State Veterans Homes

"During these concurrent projects, your team has worked closely with the Bureau of Veterans' Homes and all six State Veterans Homes to meet the program requirements and provide designs that will support the State Veterans Home System in providing patient-centered healing environments."

- Andrew Ruscavage, Director, State Veterans Homes

the County's 911 public-safety access point (PSAP).

Not only were operational capabilities, system performance and cost of critical importance, but also a system design that offered an expeditious deployment and integration, without impacting day-to-day operations. In this case, installation needed to be complete within a 60 day window from award of contract in order to meet the beginning of the new school year and minimize any class and operational disruptions.

In order to meet all performance, cost and installation parameters AE Works and Clarke County officials collaborated together to develop a design that was driven more around the scalability and performance of the video management platform and less about the cameras being deployed out at the edge.

Representatives from AE works, Clarke County Sheriff's Department, Clarke County School District, Purchasing, IT Departments and the Berryville Police Department conducted live product demonstrations with a number of industry leading manufacturers in video management software with a goal of narrowing the selection process down to streamline the upgrade while at the same time ensuring appropriate technology was selected to meet the school district's needs.

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AE Works Case Study

The Clarke Co. School District Security project was featured as a Case Study in the ASIS Magazine, the publication for security management professionals.

"AE Works researched the specifics of this school's situation, contacted vendors, and helped devise bid specifications that led to the selection of a system that fit the school's needs."

- ASIS Case Study





4. Provide construction bid services to the Owner until completion of the project.

AE Works has a specialist team of construction service professionals with backgrounds in construction management, facility management and maintenance to support our construction phase services with an "in the field" perspective.

During bidding and construction administration phases, our team handles the day-to-day aspects of the build with continued involvement of technical designers. Security expertise is necessary to prevent installation errors such as incorrect hardware installation.

Please see below photo that depicts the importance of door hardware details. It is important to check that the parts specified are the parts installed. The photo depicts the latch and deadlatch assembly typical in this environment. In order to secure, the deadlatch must be engaged (pushed in) when the door is locked.

If the strike cavity is too large, the dead-latch will not engage which allows a perpetrator to manipulate the latch with a credit card, screwdriver, or similar object. If this is not checked during installation, a very expensive security system is rendered useless.

Other QA/QC strategies we utilize to enable successful project delivery include the following methods and processes:

Work in Place Processes: For any complex aspects of a project or areas of detail, we set up a process for "work in place," clearly setting expectations, reviewing methods and establishing work approval process. Reviewing work in place completed by a sub before the next sub's work has enabled us to address little issues in the field before they become bigger.

Running punch list: At the beginning of a project, we start a punch list so that any errors or inaccuracies can be identified early so they are not repeated throughout the project.

Product and Work Method Approval Processes: We establish strict protocols for approval of products and work methods before they happen to support alignment and quality. Typically, this involves a sign off on materials before completed.

Field mock-ups: Field mock-ups are especially beneficial for aesthetic and functionality QA/QC. Field mock-ups allow the team to see how different systems come together and will be built and look in the field.

Pre installation meetings to discuss challenges and concerns. We've found these helpful on complex installations to support shared alignment before construction.

Security Solution Example

These photos depict the importance of looking at the details of the door hardware. This is just one example of what our team of professionals looks for during construction.





2. QUALIFICATIONS, EXPERIENCE, AND PAST PERFORMANCE

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Staffing Plan and Key Team Member Qualifications

Complementing our team's diverse experience with physical security upgrades, key team members bring experience with a range of standards that are similar as well as in-depth training and credentials to enable comprehensive Physical Security solutions.

Our team's relevant training and credentials is detailed below.

	ASED DE	SIGN
VLLDGL-D/		JUDIN

- CPTED, ballistic and forced entry requirements and electronic security system design
- Unified Facility Criteria (UFC) 4-010-01 DoD Minimum Antiterrorism Standards for Buildings
- DoD Manual 5100.76, Physical Security of Sensitive Conventional Arms, Ammunition and Explosives
- DoD O-2000.12-H DoD, Antiterrorism Handbook
- DoD Instruction 200.16, Antiterrorism Standards
- Marine Corps Order (MCO): 3302.1E Marine Corps, Antiterrorism Standards, MCO 5530.14A, Physical Security Program Manual, MCO 3070.2 Marine Corps, Operations Security Program
- 2016 National Veterans Small Business Engagement Speaker
 Cost Effective Strategies for Minimizing Security Risks at VA Facilities
- Presenter on Security Risk Management for KAPPA (Higher Education Facilities), PA Society of Professional Engineers, PA American Planning Association and others
- Case Studies: 2013 ASIS Security Journal Case Study Feature; 2013 BICSI News Magazine Technology Article; 2016 ICT Today Article
- Design of 20+ Public Safety, 911 and Emergency Operations Centers*

CERTIFICATIONS & TRAINING

- Physical Security Professional (PSP)
- Certified Protection Professional (CPP)
- Registered Communications Distribution
 Designers
- Professional Engineers experience with electronic security design and structural dynamics
- ISC2 Certified Information Systems Security Professional (CISSP)
- Lockmasters Security Institute Tactical Entry
- Federal Law Enforcement Training Center Physical Security Training Program
- United States Marine Corps Anti-Terrorism Officer Level Two
- Lockmasters Security Institute Physical Security Specialist
- US Army Information Assurance Security Officer Certification
- Security Management Masters Degree



STAFFING PLAN

Our approach to executing contract requirements for projects like your physical security upgrades includes systematic planning. We do a lot of up front work to make efficient use of both our time while on site and also the time of key stakeholders who support our work. This planning enables us to conduct minimally disruptive site investigations. While we complete a very detailed plan and schedule for each of our site visits, our plans are not so rigid that if a planned activity has to be adjusted that the plan is disrupted. Flexibility is built into our approach. If a gap or vulnerability is spotted, we have time built into the schedule so we can follow that analysis through.

Prior to coming on site, our Project Manager and Physical Security Specialist, Herb Brychta, PSP will communicate and coordinate with VA stakeholders to coordinate scheduling of our activities while on campus. We make sure that they are all aware of our schedule and have the opportunity to ask questions beforehand so that we can make efficient use of everyone's time.

With recent experience supporting a multi-campus physical security survey that encompassed 5 campuses and 189 buildings, we bring experience working closely with different departments to ensure that we achieve a minimally disruptive site visit, survey all facilities that we need to and make the best use of everyone's time. Demonstrating our capacity, AE Works Project Manager and Physical Security Specialist, Herb Brychta, PSP, CPP, CISPP brings ten (10) years of managing geographicallydistributed physical security inspections. He managed a security team who inspected the security and anti-terrorism readiness of 180 geographically dispersed facilities located throughout 48 of the 50 states and Puerto Rico, and in a variety of settings – urban, small town and rural. Herb personally conducted 10-15 inspections per year and in total, the team averaged 50-70 inspections per year. Most recently, Herb and the AE Works team completed a workplace and safety security assessments in all 50 states for a government client.

The AE Works team brings the requisite capacity and experience managing a physical security inspection project. We understand how to prepare for a site survey to make the best use of both our time and that of client stakeholders while on-site and off-site so we do not waste client time. To have a non-disruptive engagement, we understand the preparation that needs to happen and that each plan needs to be very specific for each site. From looking at where we need access to who we need access from for those places, we plan out the details to enable success.

An organizational chart on the following page shows the AE Works team and our resource network.

AE Works Client Reference

Dayton VA Medical Center Physical Security Survey

Earl Burkhart, Chief of Police, earl.burkhart@va.gov can speak to our team's professionalism and upfront planning to enable a successful site visit.

AE WORKS TEAM ORGANIZATION

At AE Works, "structures" aren't only what we design, but an essential element of who we are and how we work. A thoughtfully planned, collaborative organization, centered on transparency and shared vision, ensures an efficient, effective workflow—a benefit to our team and our clients. AE Works is a **full-service team lead by a SDVOSB** and includes a network of over 120+ professionals.

West Virginia Lottery Commission

PROJECT MANAGER / PHYSICAL SECURITY SPECIALIST Herb Brychta, PSP, CISSP, CPP (AE Works)

The AE Works PM/PSS will be directly responsible for assigned project leadership and success. The Project Manager will be your main day-to-day contact.

AE WORKS TEAM

ELECTRICAL AND SECURITY / TECHNOLOGY SYSTEMS ENGINEERING

Matt Murphy, PE – Sr. Electrical Engineer (AE Works)

Additional Team Resources: AE Works has a team of 16 Electrical Engineers and Designers in addition to mechanical and plumbing specialists.

STRUCTURAL ENGINEERING

Michael Maxwell, PE – Structural Engineer (Stahl Sheaffer)

Additional Team Resources: Additionally, Stahl Sheaffer has a team of 60+ Multi-Discipline Civil and Structural Engineers, including 9 engineers registered in WV.

ARCHITECTURE

Richard Witt, AIA – Principal, Architect (AE Works)

Additional Team Resources: AE Works has a team of 17 Architects in addition to Interior Designers and Master Planner. WV registered professionals.

COST ESTIMATING

Bob Swearingen – Cost Estimating (AE Works)

Additional Team Resources: AE Works has a team of 7 providing Project Services including Construction Management and Cost Estimating.

The organizational chart and resumes reflect the key team members. Additional staff will be assigned as needed to complete this project. *AF Works in-house key team members are noted in orange.



Herb Brychta, PSP, CISSP, CPP

Project Manager / Physical Security Specialist

A Certified Protection Professional, Herb Brychta is a strong leader with extensive experience spanning Security, Anti-Terrorism, Emergency Management, and Workplace Safety. Having experience in the military under the Marine Forces Reserve as Mission Assurance Lead Contractor, Herb managed a team who inspected the security and ATFP readiness of 162 facilities. Additional experience includes assessment of over 10 million SF of facilities for security and continuity of operations, nationwide workplace safety evaluations for a government client and multi-building security system upgrades.





Herb's experience includes multi-building security system upgrades

YEARS EXPERIENCE

22 years

TIME WITH AE WORKS

5 years

EDUCATION

Bachelor of Science, Computer Science, Masters, Security Management

CERTIFICATIONS

Physical Security Specialist, Certified Protection Professional, Cert Information Systems Security Professional

EXPERTISE

- Workplace Safety + Security
- Physical Security
- Access Control
- Anti-terrorism
- Emergency Management

Relevant Experience

Marine Forces Reserve, Various Locations: Mission Assurance Lead Contractor. Managed a team who inspected the security and AT/FP readiness of 162 facilities and personally conducted 10-15 inspections per year. Inspections included, Physical Security of classified material and IT devices.*

PA DGS Physical Security Assessment and Recommendation, CTC Commonwealth Technology Center, Harrisburg, PA: Survey Cost Estimate to upgrade the physical security of a government campus. Assessment of the current physical security of the entire site, access roads and parking areas, and recommendations to improve overall security at the site. Cost: \$230K (est.)

Chicago VA Medical Center, Renovate Electronic Security Systems, Chicago, IL: Design and construction period services for Electronic Security Systems design to include replacement of existing Physical Access Control System, Intrusion Detection System and Intercommunication System for the 10 locations. Cost: \$4M (est.)

Kansas City VA Medical Center, Physical Security Assessment, Kansas City, KS: Risk assessments for the main campus, Annex, and 7 Clinics, followed the requirements of the latest Physical Security Design Manual and determined compliance with the applicable design manual for each site and facility. AE Works Fee: \$222,500

Multi-campus Physical Security Assessments, Department of VA, Ohio & Kentucky: Conducted physical security assessments of 5 campuses spanning 575 acres, 189 buildings and nearly 5.2 million-GSF. Following risk assessments, reports were developed noting deficiencies and recommendations to correct those deficiencies.

Veterans Benefits Administration, Nation-wide Annual Workplace Evaluations, including WV: Workplace evaluations of 58 offices to support Occupational Safety and Health program management goals. Completion of action plans to support staff safety.

*includes experience prior to AE Works



Richard Witt, Jr., AIA

Principal, Architect

With a 30+ year career spanning Design, Project Management, Operations and Leadership roles, Richard brings experience in every facet of the A/E industry. Richard is a Registered Architect in West Virginia.

Of relevance to your project, Richard brings specialized expertise in secure government facilities. He has worked on a broad range public safety projects throughout his career ranging from new 911 centers and emergency operations facilities to sheriff headquarters and specialized training facilities. With a portfolio of over 20+ public safety facilities, Richard is well-versed in providing design solutions to enhance safety and security.





YEARS EXPERIENCE

34 years

TIME WITH AE WORKS

10 years

EDUCATION

Bachelor of Architecture

CERTIFICATIONS

Registered Architect: WV (EXP) exp. 6/30/22) and 6 other States, NCARB Certified

EXPERIENCE

- Physical Security and Facility Hardening
- Public Safety and Government Facility Planning and Design

Relevant Experience

Cabell County Emergency Services/9-1-1 Center, Huntington, WV: This new 13,000-SF Emergency Response Center includes all facilities required to support the County Emergency Operations Center, 911 Call Dispatch Center and Emergency Management Staff. *

Veterans Benefits Administration (VBA), Regional Office and Call Center Renovation, Huntington, WV: Office realignment/renovation focused on effectively utilizing 53,300-SF. Facilities include space to meet with veterans, open and closed offices and call center. This project identified safety and security improvements to support VBA's culture of workplace safety. Cost: \$4.9M (est.)

PA DGS Physical Security Assessment and Recommendation, CTC Commonwealth Technology Center, Harrisburg, PA: Survey Cost Estimate to upgrade the physical security of a government campus. Assessment of the current physical security of the entire site, access roads and parking areas, and recommendations to improve overall security at the site. Cost: \$230K (est.)

Multi-campus Physical Security Assessments, Department of VA, Ohio & Kentucky: Physical security assessments of 5 campuses spanning 575 acres, 189 buildings and nearly 5.2 million-GSF. Following risk assessments, reports were developed for each site noting deficiencies and recommendations to correct those deficiencies. Findings were incorporated into the master plan for each campus.

Beaver County Emergency Services/9-1-1 Center, Beaver, PA: Beaver County Emergency Services Center, Ambridge, PA: This new 18,500-SF 911/Emergency Services Center features hardening and systems redundancy for survivability of the 24/7 mission-critical activities. *

* includes experience prior to AE Works



Matt Murphy, PE

Senior Electrical Engineer

Matt is a Senior Electrical Engineer with a career that spans over 30 years of experience on a diverse range of federal, state and local government projects - the majority of which have involved security systems. Expertise includes review of existing drawings and site electrical utilities, interior and exterior lighting, power, fire alarm and communications infrastructure, and electronic security system upgrades and improvements.





YEARS EXPERIENCE

22 years

TIME WITH AE WORKS

1.5 years

EDUCATION

Bachelor of Science, Electrical Engineering Technology

CERTIFICATIONS

Registered Engineer: PA , exp. 9/30/23)

EXPERTISE

- Electrical infrastructure: power, lighting, fire alarm systems
- Security systems
- Facility assessment
- Construction
 Administration

Relevant Experience

Chicago VA Medical Center, Renovate Electronic Security Systems, Chicago, IL: Design and construction period services for Electronic Security Systems (ESS) design to include removal and replacement of existing Physical Access Control System, Intrusion Detection System and Intercommunication System for 10 locations. Cost: \$4M (est.)

Federal Bureau of Investigation (FBI) Field Office Electric Service Project, Johnstown, PA, FBI. The design included a new 400-ampere, 208/120-volt, three phase electric service. The client had extensive security measures which were incorporated in the design documents. The design also included power, lighting, fire alarm, and communications infrastructure layouts. *

PA DGS Penn DOT District 9-0 Blair County, Renovate and Expand Office, Hollidaysburg, PA: Constructed in 1948, the facility has not been updated since and many of the buildings infrastructure systems are beyond their normal life expectancy. This design develops a solution to support the long-term operation of the building with an expanded 24/7 Traffic Control Center, upgrades to building engineering systems for efficiency, storm-water management and exterior facade repairs. A phasing plan is developed to allow the building to remain fully operational.

Plum Borough Fire and EMS Building Services, Plum, PA: Electrical Engineer for new Fire and EMS Building. This building houses fire and emergency medical personnel, vehicles and equipment. The building is served by a 600-ampere, 208/120-volt three-phase four wire electric service. The entire facility is also served by an emergency generator for life safety and standby power in the event of a utility outage. The design also included site lighting, and telecommunications infrastructure.*



Bob Swearingen

Cost Estimator

YEARS EXPERIENCE

TIME WITH AE WORKS

Estimator Certificate

Associates Degree

perspective

owner value

Mechanical Engineering

40 years of construction

industry experience

provides buildability

Utilizing estimating

Negotiated design

changes that saved

on cost and increased

software for profitable

42 years

1 year

EDUCATION

EXPERTISE

bids

With over 40 years of cost estimating experience, Bob has thorough industry knowledge for all project stages. With years of construction experience, he brings a buildability perspective to his estimating process. This results in detailed estimates that reflect first-hand knowledge of how a project needs to be built.

Bob has used current technology to prepare estimates for all project types, including incorporating physical security and other safety features into cost estimates. He brings recent estimating experience for projects in West Virginia.





Nuclear Regulatory Commission, Office Renovations, including security systems

Relevant Experience

Chicago VA Medical Center, Renovate Electronic Security Systems, Chicago, IL: Design and construction period services for **Electronic Security Systems** design to include replacement of existing Physical Access Control System, Intrusion Detection System and Intercommunication System for 10 locations. Cost: \$4M (est.)

Recent West Virginia Estimates:*

- Addition to Wilson Hall Oglebay Park, Wheeling, WV (\$10,359,000.00)
- Riverside High School, Charlestown, WV (\$680,000.00)
- Ambulatory Care Addition, VAMC Clarksburg, WV (\$7,704,269.00)
- Wheeling Hospital Continuous Care Center, Wheeling, WV (\$23,132,000)

Nuclear Regulatory Commission - One White Flint North Design Renovation Project, Bethesda, MD: AE Works developed a program of requirements, several concepts, stacking plans, sequencing and space plans to support office renovations in the agency's 209,000-SF 14-floor office tower. Planning and design efforts work toward NRC's workplace of the future that is compliant with **Federal security guidelines** and also allow the agency to comply with Federal Leadership in Environmental, Energy, and Economic Performance.

Indiantown Gap National Cemetery Expansion, including electrical site infrastructure and security systems, Indiantown Gap, PA: This master plan review and design process involves a full range of site survey and design, environmental and physical security assessment, infrastructure and building evaluation and design. Extending/ upgrading electrical infrastructure is a key element of this project. Est. \$30M

*Includes experience prior to AE Works

StahlSheaffer Engineering Michael Maxwell, PE

Structural Engineer

Mike is a Registered Structural Engineer in West Virginia with 18 years of experience in structural design, analysis, and inspection of building structures. He has provided engineering design for structures of various material types and building uses, including projects for public, education, and commercial clients. He is also well versed in structural inspections and assessments, including West Virginia projects.

Current project involvement includes the design of multi-story steel framed courthouse and municipal buildings, renovation of existing hotel properties, mass timber event space, and construction administration for projects under construction.

YEARS EXPERIENCE

18 years

TIME WITH STAHL SHEAFFER

7 years

EDUCATION

Bachelor of Science in Civil Engineering Technology with Structures Concentration

REGISTRATIONS

Professional Engineer: PA, NJ, OH, VA, **WV**, IN (Active NCEES Record)

ASSOCIATIONS

American Society of Civil Engineers and the Structural Engineering Institute (ASCE/ SEI), American Institute of Steel Construction (AISC), Pennsylvania Society of Professional Engineers (PSPE)

Relevant Experience

Brooke County Judicial Building, Wellsburg, WV: Project Manager and Engineer of Record for a three-story steel framed structure (approximately 30,000 total square feet). Masonry shear walls are utilized to resist lateral forces and composite floor decks were designed at each level. The structure is located within the local flood zone so the first-floor level is an elevated structural slab with crawl space below. The building is founded on shallow spread foundations.

Moundsville Municipal Building, Moundsville, WV: Project Manager and Engineer of Record for a 22,000-SF three-story steel framed and concrete masonry structure. The building was laterally braced by concrete and CMU shear walls and was founded on a deep pile foundation system. Composite floor framing was designed at each level and cold formed steel roof trusses were designed over both the apparatus garage and municipal offices.

Penn State Greenberg Sports Complex, University Park, PA: Engineering design for the conversion of the previous Penn State Ice Rink building to lab space, including the addition of a new composite steel framed second floor within the existing space, extending the mechanical room to add a second floor, and a new entry with lobby, elevator and grand staircase. Existing structure was reused to the greatest extent possible, and the new floor was laterally isolated from the existing structure with its own lateral force resisting system.

Juniata College Good Hall, Huntingdon, PA: Structural Engineer for the code-based design of three-story, steel framed entry addition, including below grade basement level and full height elevator. Good Hall contains more than 30 classrooms, two computer facilities (including a Mac lab), the business department's case study room, the audio/visual department, and three instructional laboratories. It contains some of the college's most advanced classrooms with computerized overhead displays, surround sound speaker systems, and videoconferencing technology. Foundations were designed and analyzed to address concerns with expansive soils identified at site. The addition included composite concrete deck over steel framing. Due to large window openings and limited clearance for traditional steel cross bracing, custom truss style lateral braces were designed to distribute and resist lateral loading. The existing structure was wood stud framed; the addition was designed as an independent structure.

Juniata College Ellis Hall, Huntingdon, PA: Structural engineer for a two-story steel framed addition with an elevator to the entry of Ellis Hall. This facility houses several cafés, dining hall, ballroom, bookstore, broadcasting center, police department, student organizations, and various other student centers and departments. The structural framing laterally braced the addition by tying into the existing steel framed addition with a new elevator and basement level. The addition consisted of composite metal floor deck and laterally braced frames to allow the addition to stand independent of the existing structure. The third structure is a two-story entry addition to the Brumbaugh Academic Center. The new steel framing and composite metal floor deck was constructed to match the existing curved radius of the existing building facade and incorporates new full height glass storefronts and a second level balcony and seating area.









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Name:	WITT, JR. RICHARD	
Credential ID:		4, 1 1
Expiration Status:	Not Expired	6.62
Expiration date:	2022-06-30	÷.
Renewal Date:	2021-06-29	1

RICHARD WITT, JR. WV License

West Virginia State Board of Registration for Professional Engineers Search: Details

MICHAEL R. MAXWELL
PE License Number:
PE License Status: Active
PE Issue Date: 03/09/2015
PE Expiration Date: 12/31/2022
Qualifying Hours from Last Renewal or Reinstatement: 53.00
Carryover Hours for Next Renewal: 15.00
Last Renewal or Reinstatement Date*: 12/31/2020
El Certification Number:
El Issue Date:
STAHL SHEAFFER ENGINEERING 301 SCIENCE PARK ROAD SUITE 333 STATE COLLEGE, PA 16803
 This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

References

Yahaira Lugo | COR Yahaira.lugo@va.gov | 312.569.6974

Electronic Security System Renovation Chicago VA Medical Center (Jess Brown) Chicago, IL *AE Works project

Emily Lindsey | Contracting Officer emily.lindsey2@va.gov | 716.253.3958

Call Center Renovation Canandaigua VA Medical Center Canandaigua, NY *AE Works project

Steve Madrak | PA DGS

smadrak@pa.gov | 717.214.3523

Physical Security Assessment and Recommendation (SCE), CTC Commonwealth Technology Center | Harrisburg, PA *AE Works project

Mark Permelia | Capital Asset Manager mark.permelia@va.gov | 513.257.5022

VISN 10, Multi-campus Physical Security Assessments | Department of Veterans Affairs Ohio & Kentucky

*AE Works project



"AE Works continues to perform above expectation with regard to their management style and collaboration with Government program officials. During the COVID-19 crisis, AE Works has been exceptional in their flexibility in performance of site surveys and inspection of VBA facilities across the nation. Their ability to find a way to get it done has been noteworthy."

Veterans Benefits Administration, Nationwide Annual Workplace Safety + Security Evaluations





Key Features

- Multi-location, multi-building Electronic Security System Upgrade, 10 locations and 18 buildings total
- Designed to integrate new security systems access control, new panic / duress system, video surveillance, and controls
- Cost Estimating
- Estimated construction: \$4M

Reference

Yahaira Lugo, COR Yahaira.lugo@va.gov | 312.569.6974

Services

AE Works served as Prime and Project Manager, providing: Architecture, Construction Administration, Electrical Engineering, Project Management and Security Risk Management. Complete upgrade of the Electronic Security Systems for Jesse Brown VA Medical Center, which includes 18 buildings and 10 different locations.

Approach

The design of the IT systems will include a new access control system, completely replacing the existing system from the head end to the electronic strikes, installation of new access control at the parking garage; a new intrusion detection system, a new panic/ duress system, and a head end integration of the aforementioned systems along with the video surveillance system (currently being installed as part of another project), the existing intercom system, and the existing elevator controls. The new PACS will be installed on nearly 500 doors within the main campus.

AE Works evaluated a number of manufacturers for compatibility, and proposed a basis of design that required no custom interfaces or additional hardware. Intensive field work and upfront planning effort before design began contributed to what the client project manager referred to as her "smoothest running project."

The project will be phased to support continued operations and security.

Key Team Members

- Herb Brychta, PSP, CPP, CISSP (AE Works)
- Richard Witt., Jr. AIA (AE Works)
- Matt Murphy, PE (AE Works)



Physical Security Assessment and Recommendation

PA Department of General Services - CTC Commonwealth Technology Center, Harrisburg, PA



Key Features

- Physical Security Assessment of state government facilities
- Multi-building security assessment
- Designed to integrate new security systems
- Est. cost of security upgrades: \$230,000

Reference

Steve Madrak, smadrak@pa.gov | 717.214.3523

Services

AE Works served as Prime, providing Project Management, Security Risk Management, Architecture and Engineering Services.

Key Team Members

- Herb Brychta, PSP, CISSP, CPP (AE Works)
- Richard Witt, Jr., AIA (AE Works)

Assessment, estimate and recommendations to upgrade the physical security of a government campus. This project involved the assessment of the entire site, access roads and parking, and recommendations to improve overall security.

Approach

Assessing countermeasures and potential vulnerabilities, AE Works conducted physical security assessments of the campus and buildings during both daylight and night. Deliverables included the options to upgrade site security:

- Two options for each building, site and parking lot
- Two options for the entire site and access roads

Complete with cost estimates for each, the options encompassed potential fencing, barriers, controlled gate access, natural landscaping, incorporation of new work into existing systems, and other methods. These recommendations focused on strengthening already in place security measures with minimal disruption to site access and parking available. To maintain an open, welcoming campus and work environment for staff and visitors, AE Works provided plans for placement of aesthetically pleasing antivehicle measures to improve protection without making the facility look like a demilitarized zone.

Assisting the client in their ability to obtain funds needed to make these improvements, AE Works provided budget justification for upgrades to the electronic security system coverage by thoroughly analyzing the client's policy and showing that the unprotected area contained a mission critical support system.



VISN 10, Multi-campus Physical Security Assessments

Department of Veterans Affairs Ohio & Kentucky

Key Features

- Physical security assessments of five (5) campuses spanning 575 acres, 189 buildings and nearly 5.2 million gross square feet.
- Multi-phase project: Risk assessment, report and recommendation, incorporation of findings into individual facility master plans.
- Integration of CPTED principles
- Cost estimating for security improvements
- On-site assessments of 9 total locations during day and night

Reference

Mark Permelia | Capital Asset Manager mark.permelia@va.gov | 513.257.5022

Services

AE Works was the Prime for this project. Services provided included: Project Management, Physical Security, Architecture, Engineering.

Key Team Members

- Herb Brychta, PSP, CISSP, CPP (AE Works)
- Richard Witt, Jr., AIA (AE Works)

To support secure operations across the state of Ohio and Kentucky, the AE Works team conducted physical security assessments of five (5) campuses spanning 575 acres, 189 buildings and nearly 5.2 million gross square feet. On-site assessments were completed at day and night for nine (9) different locations.

A detailed plan and schedule was developed to streamline inspections and minimize disruption. Prior to coming on site, we coordinated with multiple stakeholder groups to coordinate scheduling our activities on campus. We made sure that all were aware of our schedule and had the opportunity to ask questions beforehand so that we could make efficient use of everyone's time.

Our approach also involved thorough intelligence research before going on-site. We consulted Uniform Crime Reporting Statistics and State & Local Anti-Terrorism Training to understand potential threats and each facility's local community in more depth. This information enabled a threat-based assessment that was tailored to each facility and its unique risks.

Following risk assessments, reports were developed for each site noting deficiencies and recommendations to correct those deficiencies. Assessment findings were incorporated into the master plan in the form of graphical representation of facility standoff distances, projects to address perimeter security and site access control findings, applicable Crime Prevention Through Environmental Design (CPTED) principles to be implemented on future projects, diagrams and descriptions of site utility entrances, and a traffic study. Rough order of estimated construction costs were provided for each recommendation.



Call Center Renovation

Department of Veterans Affairs Canandaigua, NY

Key Features

- Close coordination with stakeholder groups to result in the design meeting the needs of all departments.
- In-depth documentation of existing conditions: field conditions report provided to the client
- Proactive communication on budget
- Physical security review
- Designed to integrate new security systems for office environment

Reference

Emily Lindsey, Contracting Officer emily.lindsey2@va.gov | 716.253.3958

Services

As Prime A/E, AE Works provided: Project Management, Architecture, Interior Design, Building Systems Engineering (MEP/ Security/ Telecom), Construction Administration, and Physical Security services. Current statistics show that 17 veterans commit suicide per day. The Department of Veterans Affairs developed the Veterans Crisis Line in 2007 and has grown the program since then to support veterans in crisis. The Canandaigua VAMC is one of the VA's centers of excellence for Veterans Crisis Line along with other Call Center services.

Challenge

This project transforms an existing floor of a historic building into a call center. Completely demolishing the existing space, the design will provide an open, modern call center complete with training and meeting space, shared amenities and private offices.

With mission critical operations in other floors, including the Center of Excellence, dispatch operator suite, carpenter shop, veterans research center and main server, maintaining operations throughout construction is of utmost importance. AE Works developed a phasing plan to assure all services continue to be operational during construction.



Solution

While maximizing the number of workstations, other elements were integrated to maintain a healthy workplace for a workforce that occupies the center for extended hours. For example, natural daylight, indirect lighting, sound absorbent ceiling tiles and carpet, and a work station layout that supports employee work and comfort are a part of the design solution. Designed to support the work of call center employees, white noise and offset workstations were incorporated to support overall team function and management support. Ergonomics is also of importance due to the amount of time call center agents will be sitting and answering Veteran client calls. Details such as allowing for furniture adjustment help provide employees with the ability control their own workspace to maintain personal health and comfort while working.

In addition to the call center, **the design also integrated a PACS badge access system** tied to employee PIV cards and a security camera at each floor entrance/exit to record a frontal view of those entering and/or exiting the space. To provide a comfortable environment, infrastructure improvements, including HVAC, electrical, lighting, water, sanitary, and other utilities were upgraded to serve the space and the function of the call center.

Driving Impact

As a part of AE Works' integrated service offering, a physical security review of the design was completed. The review resulted in a safer space and further integration of design elements to connect employees with the importance of their mission to support Veterans.

To deliver on "Safer" our physical security review provides an alternative perspective to design rooted in Occupant and Owner Safety and Asset protection (with origins in CPTED (Crime Prevention Through Environmental Design see images below). Security review help aid the designers in developing solutions that are Beautiful and Functional as well as Safer. The "BEFORE" plan shows the functional solution that met the Client's requirements. Based on our in-house review process and physical security staff input, the "AFTER" plan shows the physical security and more easily implemented safety features.

Key Team Members

- Herb Brychta, PSP, CISSP, CPP (AE Works)
- Richard Witt, Jr., AIA (AE Works)

