



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: 240128

Doc Description: Addendum 1-Redundant Water and Sewage Systems EOI Design

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2016-08-02	2016-08-31 13:30:00	CEOI 0603 ADJ1700000004	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:

Cheat Road Engineering,  
 100 Hart Field Rd., Suite  
 191 Morgantown, WV 26505  
 (304)-212-5480

08/30/16 14:21:15  
 WV Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**

Jessica S Chambers  
 (304) 558-0246  
 jessica.s.chambers@wv.gov

Signature X

FEIN #

46-1726270

DATE

8/26/16

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

**ADDITIONAL INFORMATION:**

**Addendum**

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

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**Expression of Interest**

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The West Virginia National Guard to provide design services to complete a system inventory and vulnerability assessment of the existing infrastructure for water and sewage systems at the Joint Forces Headquarters at the Coonskin Complex in Charleston, WV, and selected areas within Camp Dawson at Kingwood (Preston County), and to provide a prioritized approach with conceptual costs for redundant water and sewage systems at these locations.

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR	
CHARLESTON	WV25311	CHARLESTON	WV 25311
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	Redundant Water and Sewage Systems EOI Design Services		

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description :**

CHARLESTON COONSKIN LOCATION-Professional engineering design services to develop construction documents to provide for a complete system inventory and vulnerability assessment of the existing infrastructure for water and sewage systems as needed, at the Joint Forces Headquarters Complex, located at 1703 Coonskin Drive, Charleston, WV 25311, and to provide a prioritized approach with conceptual costs for redundant water and sewage systems at this location per the attached documentation

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		FACILITY MAINTENANCE MANAGER CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD	
CHARLESTON	WV25311	KINGWOOD	WV 26537-1077
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
2	Redundant Water and Sewage Systems EOI Design Services		

Comm Code	Manufacturer	Specification	Model #
81101508			

**Extended Description :**

CAMP DAWSON LOCATION- Professional engineering design services to develop construction documents to provide for a complete system inventory and vulnerability assessment of the existing infrastructure for water and sewage systems as needed, at selected areas within Camp Dawson at Kingwood (Preston County), and to provide a prioritized approach with conceptual costs for redundant water and sewage systems at this location per the attached documentation.

<b>ADJ1700000004</b>	<b>Document Phase</b> Final	<b>Document Description</b> Addendum 1-Redundant Water and Sewage Systems EOI Design	<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

**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.

Trevor Lloyd, Engineering Manager

(Name, Title)

Trevor Lloyd, Engineering Manager

(Printed Name and Title)

100 Hart Field Road, Suite 191 Morgantown, WV 26505

(Address)

(304)212-5480

(Phone Number) / (Fax Number)

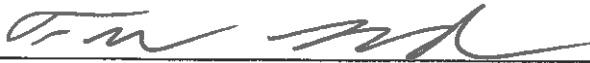
tlloyd@crewv.com

(email address)

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

Cheat Road Engineering

(Company)



(Authorized Signature) (Representative Name, Title)

Trevor Lloyd, Engineering Manager

(Printed Name and Title of Authorized Representative)

8/26/16

(Date)

(304)212-5480

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:

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

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

Addendum Numbers Received:

*(Check the box next to each addendum received)*

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

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

Cheat Road Engineering

Company

  
Authorized Signature

8/26/16

Date

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



## Cheat Road Engineering: Expression of Interest

RE: CEOI 0603 ADJ1700000004

Dear Ms. Chambers,

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Please contact me if you have any questions or concerns about this Expression of Interest.

Sincerely,

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Trevor Lloyd, P.E., CFM

Engineering Manager

Cheat Road Engineering

100 Hart Field Dr, Suite 191

Morgantown, WV 26505

Phone: 304-212-5480

Email: [tlloyd@crewv.com](mailto:tlloyd@crewv.com)



## Cheat Road Engineering: Company Overview

Cheat Road Engineering, Inc. (CRE) is a young company that was formed in November of 2012. CRE was created with the goal of providing practical and constructable designs that meet our clients' needs while maintaining compliance with applicable codes. While CRE is a relatively young company, our Principals have extensive experience in the area of civil site design and construction management. Scott Copen and Nicolas Webb are experienced in all areas of project site design, water resources engineering, geotechnical engineering, and project management. In addition, Trevor Lloyd has a significant amount experience as former staff engineering for the City of Morgantown in government contract administration, public facility maintenance, design and construction specifications and cost estimation. CRE is experienced with the design and maintenance of water distribution systems, sanitary systems, and general infrastructure. CRE is currently involved with the design and construction of multiple commercial and residential site development projects that have a total construction cost of over \$100 million.

Our experience enables us to generate designs that will consider initial cost of construction, environmental constraints, permitting requirements, constructability, long-term maintenance costs, and incorporate user friendly design features. It should also be noted that CRE's project management experience allows it to generate accurate construction cost estimates by utilizing the experience of well-respected and knowledgeable local contractors instead of relying on a construction index to generate engineering cost estimates.



## Cheat Road Engineering: Statement of Qualifications

### **General Services:**

Cheat Road Engineering, Inc. (CRE) is a multi-discipline, professional organization unique in its capabilities and credibility that is licensed to provide professional civil engineering, land surveying, and environmental consulting services. CRE has a staff of over 25 full-time employees who are experienced and qualified to provide an extensive range of civil engineering services, including civil site design, water/waste water engineering, geotechnical engineering, land surveying and construction services for all our areas of expertise.

### **Bid Specific Services:**

CRE provides professional engineering services for the design of potable water systems and wastewater collection and treatment systems for projects of various sizes and complexities. Our design solutions strive to address the cost effectiveness and ease of operation and maintenance for each project undertaken. The CRE staff is experienced in the design of wells and pumps, water storage facilities, water distribution systems, water treatment facilities and water systems controls. CRE is also experienced in the design of upgrades to, and new construction of lift stations, force mains and sanitary sewer systems.

### **Professional Staff:**

- 4 Licensed Professional Engineers – West Virginia
- 2 Licensed Professional Engineers – Pennsylvania
- 2 Licensed Professional Surveyors – West Virginia
- 1 Certified Floodplain Manager – West Virginia



# CHEAT ROAD ENGINEERING, INC.

SCOTT A. COPEN, P.E.

PRINCIPAL

## EDUCATION

- B.S. Civil Engineering, 2000  
West Virginia University
- M.S. Civil Engineering, 2004  
West Virginia University

## EMPLOYMENT HISTORY

- 2012-Present Cheat Road Engineering, Inc.  
2011-2012 Potesta & Associates, Inc.  
2006-2011 Morgantown Utility Board  
2005-2006 Johnson, Mirmiran, & Thompson  
2004-2005 Bluerock Construction, LLC  
2003-2004 Parsons Brinkerhoff  
2001-2003 West Virginia University

## PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia  
Professional Engineer – Pennsylvania  
Member - ASCE

## AREAS OF SPECIALIZATION

Water resources, including hydraulics and hydrology, storm water management and conveyance, water and sanitary systems, and stream channel design; civil/site design, permitting, surveying, construction monitoring, computer-aided drafting and other areas of civil engineering.

## PROFESSIONAL EXPERIENCE

### Civil/Site Design

Performed civil/site design services for multiple projects. Notable projects include Mon Health Office Complex, Fort Pierpont Commercial Development, West Run Business Park and Summit Woods at Cheat Lake housing development. Civil/site tasks involved roadway geometric design, building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage; and West Virginia Division of Highways (WVDOH) roadway design.

### Water Resources

Senior engineer at the Morgantown Utility Board responsible for the design of various municipal water,

sanitary, and stormwater system designs. Large projects included the South Morgantown Water and Sewer Improvements Project, the North Morgantown Sewer Improvements Project, the Wiles Hill, Osage and Snake Hill Water Storage Tanks Projects, the Scott's Run and Sabraton Waterline Project, the University Avenue Water Line Project, Shop Access Road Project, West Run Force Main Project, Burroughs and Poponoe Run Stormwater Improvements Project, and the Falling Run Box Culvert Project.

As part of the above projects, prepared construction drawings, contract documents and specifications, prepared and obtained various permits required for construction, prepared pay applications, oversaw construction activities, prepared payment requests for multiple funding agencies, prepared and obtained rights-of-way, provided public notices regarding upcoming and ongoing projects via multiple media outlet types, and coordinated work with other municipal agencies.

Managed day-to-day activities related to the CSO and MS4 permits for the City of Morgantown, including preparation of DMR's, permit renewals, and modifications, program development and refinement, coordination with regulatory agencies, and preparation of required reports.

Prepared construction drawings, permits, and rights-of-way for numerous small scale water system, sanitary sewer, and storm water sewer, and combined sewer projects within the jurisdiction of the Morgantown Utility Board.

Performed hydraulic modeling of the Morgantown Utility Board's water system to study water age, pressure fluctuations, fire flow analysis and other related items.

### Project Management

Performed project management services on various projects including public infrastructure and private development. Responsible for ensuring projects remain on schedule and budget, resolve issues that arise during construction, prepare pay applications, coordinate multiple contractors, and work with local authorities to ensure work is completed in compliance with local zoning and building codes.

# CHEAT ROAD ENGINEERING, INC.

**NICOLAS P. WEBB, P.E.**  
**SENIOR PROJECT MANAGER**

## EDUCATION

- B.S. Civil Engineering, 2002  
West Virginia University
- M.S. Civil Engineering (Coursework Completed)  
West Virginia University

## EMPLOYMENT HISTORY

- 2013-Present Cheat Road Engineering, Inc.  
2008-2013 Morgantown Utility Board  
2003-2008 Triad Engineering Inc.

## PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia

## AREAS OF SPECIALIZATION

Project management/coordination; Construction materials sciences and testing; Geotechnical investigations and design, including foundation design, stability analysis, retaining wall design; Water resources, including hydraulics and hydrology, storm water management and conveyance, water and sanitary systems; Civil/Site design, including permitting, surveying, construction monitoring, and other areas of civil engineering.

## PROFESSIONAL EXPERIENCE

### Civil/Site Design

Performed civil/site design services for multiple projects. Notable projects include WVU Lincoln Hall Dormitory, WVU Potomac State University Place Residence Hall and WVU Wrestling Pavilion. Civil/Site Design tasks involved building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage.

### Water Resources

Senior engineer at the Morgantown Utility Board responsible for the design of various municipal water, sanitary, and stormwater system designs. Large projects included the South Morgantown Water and Sewer Improvements Project, the North Morgantown Sewer Improvements Project, the Scott's Run and Sabraton

Waterline Project, the University Avenue Water Line Project, Canyon Lift Station and Force Main Project, Sabraton/Hartman Run Stormwater Improvement Project.

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Managed day-to-day activities related the MS4 permit for the City of Morgantown, including preparation of permit renewals, and modifications, program development and refinement, coordination with regulatory agencies, and preparation of required reports.

Prepared construction drawings, permits, and rights-of-way for numerous small scale water system, sanitary sewer, and storm water sewer, and combined sewer projects within the jurisdiction of the Morgantown Utility Board.

Managed all aspects of the Morgantown Utility Board's Cross-Connection/Backflow Prevention program; including review of submitted backflow test reports, backflow prevention program development, and coordination with regulatory agencies to ensure program compliance.

### Geotechnical Engineering/Design

Performed geotechnical engineering services for multiple projects; tasks included supervising/coordinating subsurface investigations, geotechnical report preparation, shallow and deep foundation design, slope stability analysis/landslide remediation design, retaining wall design, and flexible and rigid pavement design.

# CHEAT ROAD ENGINEERING, INC.

## TREVOR L LLOYD, P.E., CFM ENGINEER MANGER

### EDUCATION

B.S. Civil Engineering, 2004  
West Virginia University

### EMPLOYMENT HISTORY

2015-Present Cheat Road Engineering, Inc.  
2000-Present West Virginia National Guard  
2008-2015 City of Morgantown  
2004-2007 Seal Engineering

### PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia  
Professional Engineer – Pennsylvania  
Certified Flood Plain Manager – West Virginia

### AREAS OF SPECIALIZATION

Civil/site design, project management, floodplain management, government bidding and contracting, construction monitoring, computer-aided drafting, permitting, roof design and other areas of civil engineering.

### PROFESSIONAL EXPERIENCE

#### Civil/Site Design

Engineer Manager at Cheat Road Engineering responsible for roadway geometric design, building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage; and West Virginia Division of Highways (WVDOH) roadway design.

Staff Engineer at the City of Morgantown responsible for the functionality of all City owned buildings and systems. Performed civil/site design for sidewalks, parking areas, roof and façade repair, utility repair, storm water management, and erosion and sediment control.

Commissioned officer in the West Virginia National Guard responsible for various earthwork operations in North America, Africa, and the Middle East. Served as the Brigade Civil Engineer charged with technical design and surveying of road networks, helipads, underground utilities, and various other civil engineering projects.

Project engineer at Seal Engineering responsible for developing comprehensive engineering plans and specifications for restoration of building envelope systems. Notable projects include reconstruction of the Pentagon roof after 9/11, design of new roofing system for the AIA headquarters building, and various roof and façade repairs to multiple Smithsonian buildings.

#### Project Management

Performed project management services on various projects including public infrastructure and private development. Responsible for ensuring projects remain on schedule and budget, resolve issues that arise during construction, prepare pay applications, coordinate multiple contractors, and work with local authorities to ensure work is completed in compliance with local zoning and building codes.

Administered multiple construction contracts for the City of Morgantown. Notable projects include the renovation of the Metropolitan Theater, the Morgantown Marketplace, and the LEED certified North Side Fire Station.

#### Regulatory

Served as the steward of the public rights-of-way for the City of Morgantown ensuring development within the City did not encroach or damage publicly owned lands. Responsible for the review of all building permit applications submitted to the City. Worked directly with the public and City officials to resolve various engineering issues. Examples include interpretation of City Codes and regulations as they related to accepted engineering practices, assessment of potentially unstable structures, and general public safety concerns.

Responsible for preserving the City of Morgantown's floodplains by ensuring development adhered to all the federal, state and local regulations that apply to flood plain areas.

#### Public Service

Serving as a member of the Morgantown Municipal Green Team. Ongoing projects include expanding recycling to the commercial sector of Morgantown and a long term study of energy efficiency of City assets such as building utilities, street lights, and the City fleet.



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Engineering Manager

Cheat Road Engineering

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# CHEAT ROAD ENGINEERING, INC.

## TREVOR L LLOYD, P.E., CFM ENGINEER MANGER

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#### Regulatory

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Responsible for preserving the City of Morgantown's floodplains by ensuring development adhered to all the federal, state and local regulations that apply to flood plain areas.

#### Public Service

Serving as a member of the Morgantown Municipal Green Team. Ongoing projects include expanding recycling to the commercial sector of Morgantown and a long term study of energy efficiency of City assets such as building utilities, street lights, and the City fleet.



## Cheat Road Engineering: Expression of Interest

RE: CEOI 0603 ADJ1700000004

Dear Ms. Chambers,

Cheat Road Engineering (CRE) would like to formally express an interest in providing design services to complete a system inventory and vulnerability assessment of the existing infrastructure for water and sewage systems at the Joint Forces Headquarters at the Coonskin Complex in Charleston, WV, and selected areas within Camp Dawson at Kingwood (Preston County), and to provide a prioritized approach with conceptual costs for redundant water and sewage systems at these locations.

Please contact me if you have any questions or concerns about this Expression of Interest.

Sincerely,

Trevor Lloyd, P.E., CFM

Engineering Manager

Cheat Road Engineering

100 Hart Field Dr, Suite 191

Morgantown, WV 26505

Phone: 304-212-5480

Email: [tlloyd@crewv.com](mailto:tlloyd@crewv.com)



## Cheat Road Engineering: Company Overview

Cheat Road Engineering, Inc. (CRE) is a young company that was formed in November of 2012. CRE was created with the goal of providing practical and constructable designs that meet our clients' needs while maintaining compliance with applicable codes. While CRE is a relatively young company, our Principals have extensive experience in the area of civil site design and construction management. Scott Copen and Nicolas Webb are experienced in all areas of project site design, water resources engineering, geotechnical engineering, and project management. In addition, Trevor Lloyd has a significant amount of experience as former staff engineering for the City of Morgantown in government contract administration, public facility maintenance, design and construction specifications and cost estimation. CRE is experienced with the design and maintenance of water distribution systems, sanitary systems, and general infrastructure. CRE is currently involved with the design and construction of multiple commercial and residential site development projects that have a total construction cost of over \$100 million.

Our experience enables us to generate designs that will consider initial cost of construction, environmental constraints, permitting requirements, constructability, long-term maintenance costs, and incorporate user friendly design features. It should also be noted that CRE's project management experience allows it to generate accurate construction cost estimates by utilizing the experience of well-respected and knowledgeable local contractors instead of relying on a construction index to generate engineering cost estimates.



## Cheat Road Engineering: Statement of Qualifications

### **General Services:**

Cheat Road Engineering, Inc. (CRE) is a multi-discipline, professional organization unique in its capabilities and credibility that is licensed to provide professional civil engineering, land surveying, and environmental consulting services. CRE has a staff of over 25 full-time employees who are experienced and qualified to provide an extensive range of civil engineering services, including civil site design, water/waste water engineering, geotechnical engineering, land surveying and construction services for all our areas of expertise.

### **Bid Specific Services:**

CRE provides professional engineering services for the design of potable water systems and wastewater collection and treatment systems for projects of various sizes and complexities. Our design solutions strive to address the cost effectiveness and ease of operation and maintenance for each project undertaken. The CRE staff is experienced in the design of wells and pumps, water storage facilities, water distribution systems, water treatment facilities and water systems controls. CRE is also experienced in the design of upgrades to, and new construction of lift stations, force mains and sanitary sewer systems.

### **Professional Staff:**

- 4 Licensed Professional Engineers – West Virginia
- 2 Licensed Professional Engineers – Pennsylvania
- 2 Licensed Professional Surveyors – West Virginia
- 1 Certified Floodplain Manager – West Virginia

# CHEAT ROAD ENGINEERING, INC.

## SCOTT A. COPEN, P.E. PRINCIPAL

### EDUCATION

- B.S. Civil Engineering, 2000  
West Virginia University
- M.S. Civil Engineering, 2004  
West Virginia University

### EMPLOYMENT HISTORY

- 2012-Present Cheat Road Engineering, Inc.  
2011-2012 Potesta & Associates, Inc.  
2006-2011 Morgantown Utility Board  
2005-2006 Johnson, Mirmiran, & Thompson  
2004-2005 Bluerock Construction, LLC  
2003-2004 Parsons Brinkerhoff  
2001-2003 West Virginia University

### PROFESSIONAL REGISTRATIONS

- Professional Engineer – West Virginia  
Professional Engineer – Pennsylvania  
Member - ASCE

### AREAS OF SPECIALIZATION

Water resources, including hydraulics and hydrology, storm water management and conveyance, water and sanitary systems, and stream channel design; civil/site design, permitting, surveying, construction monitoring, computer-aided drafting and other areas of civil engineering.

### PROFESSIONAL EXPERIENCE

#### Civil/Site Design

Performed civil/site design services for multiple projects. Notable projects include Mon Health Office Complex, Fort Pierpont Commercial Development, West Run Business Park and Summit Woods at Cheat Lake housing development. Civil/site tasks involved roadway geometric design, building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage; and West Virginia Division of Highways (WVDOH) roadway design.

#### Water Resources

Senior engineer at the Morgantown Utility Board responsible for the design of various municipal water,

sanitary, and stormwater system designs. Large projects included the South Morgantown Water and Sewer Improvements Project, the North Morgantown Sewer Improvements Project, the Wiles Hill, Osage and Snake Hill Water Storage Tanks Projects, the Scott's Run and Sabraton Waterline Project, the University Avenue Water Line Project, Shop Access Road Project, West Run Force Main Project, Burroughs and Poponoe Run Stormwater Improvements Project, and the Falling Run Box Culvert Project.

As part of the above projects, prepared construction drawings, contract documents and specifications, prepared and obtained various permits required for construction, prepared pay applications, oversaw construction activities, prepared payment requests for multiple funding agencies, prepared and obtained rights-of-way, provided public notices regarding upcoming and ongoing projects via multiple media outlet types, and coordinated work with other municipal agencies.

Managed day-to-day activities related to the CSO and MS4 permits for the City of Morgantown, including preparation of DMR's, permit renewals, and modifications, program development and refinement, coordination with regulatory agencies, and preparation of required reports.

Prepared construction drawings, permits, and rights-of-way for numerous small scale water system, sanitary sewer, and storm water sewer, and combined sewer projects within the jurisdiction of the Morgantown Utility Board.

Performed hydraulic modeling of the Morgantown Utility Board's water system to study water age, pressure fluctuations, fire flow analysis and other related items.

#### Project Management

Performed project management services on various projects including public infrastructure and private development. Responsible for ensuring projects remain on schedule and budget, resolve issues that arise during construction, prepare pay applications, coordinate multiple contractors, and work with local authorities to ensure work is completed in compliance with local zoning and building codes.

# CHEAT ROAD ENGINEERING, INC.

## NICOLAS P. WEBB, P.E. SENIOR PROJECT MANAGER

### EDUCATION

- B.S. Civil Engineering, 2002  
West Virginia University
- M.S. Civil Engineering (Coursework Completed)  
West Virginia University

### EMPLOYMENT HISTORY

- 2013-Present Cheat Road Engineering, Inc.  
2008-2013 Morgantown Utility Board  
2003-2008 Triad Engineering Inc.

### PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia

### AREAS OF SPECIALIZATION

Project management/coordination; Construction materials sciences and testing; Geotechnical investigations and design, including foundation design, stability analysis, retaining wall design; Water resources, including hydraulics and hydrology, storm water management and conveyance, water and sanitary systems; Civil/Site design, including permitting, surveying, construction monitoring, and other areas of civil engineering.

### PROFESSIONAL EXPERIENCE

#### Civil/Site Design

Performed civil/site design services for multiple projects. Notable projects include WVU Lincoln Hall Dormitory, WVU Potomac State University Place Residence Hall and WVU Wrestling Pavilion. Civil/Site Design tasks involved building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage.

#### Water Resources

Senior engineer at the Morgantown Utility Board responsible for the design of various municipal water, sanitary, and stormwater system designs. Large projects included the South Morgantown Water and Sewer Improvements Project, the North Morgantown Sewer Improvements Project, the Scott's Run and Sabraton

Waterline Project, the University Avenue Water Line Project, Canyon Lift Station and Force Main Project, Sabraton/Hartman Run Stormwater Improvement Project.

As part of the above projects, prepared construction drawings, contract documents and specifications, prepared and obtained various permits required for construction, prepared pay applications, oversaw construction activities, prepared payment requests for multiple funding agencies, prepared and obtained rights-of-way, provided public notices regarding upcoming and ongoing projects via multiple media outlet types, and coordinated work with other municipal agencies.

Managed day-to-day activities related the MS4 permit for the City of Morgantown, including preparation of permit renewals, and modifications, program development and refinement, coordination with regulatory agencies, and preparation of required reports.

Prepared construction drawings, permits, and rights-of-way for numerous small scale water system, sanitary sewer, and storm water sewer, and combined sewer projects within the jurisdiction of the Morgantown Utility Board.

Managed all aspects of the Morgantown Utility Board's Cross-Connection/Backflow Prevention program; including review of submitted backflow test reports, backflow prevention program development, and coordination with regulatory agencies to ensure program compliance.

#### Geotechnical Engineering/Design

Performed geotechnical engineering services for multiple projects; tasks included supervising/coordinating subsurface investigations, geotechnical report preparation, shallow and deep foundation design, slope stability analysis/landslide remediation design, retaining wall design, and flexible and rigid pavement design.

# CHEAT ROAD ENGINEERING, INC.

## TREVOR L LLOYD, P.E., CFM ENGINEER MANGER

### EDUCATION

B.S. Civil Engineering, 2004  
West Virginia University

### EMPLOYMENT HISTORY

2015-Present Cheat Road Engineering, Inc.  
2000-Present West Virginia National Guard  
2008-2015 City of Morgantown  
2004-2007 Seal Engineering

### PROFESSIONAL REGISTRATIONS

Professional Engineer – West Virginia  
Professional Engineer – Pennsylvania  
Certified Flood Plain Manager – West Virginia

### AREAS OF SPECIALIZATION

Civil/site design, project management, floodplain management, government bidding and contracting, construction monitoring, computer-aided drafting, permitting, roof design and other areas of civil engineering.

### PROFESSIONAL EXPERIENCE

#### Civil/Site Design

Engineer Manager at Cheat Road Engineering responsible for roadway geometric design, building, sidewalk, parking, and retaining wall layout; storm water management, erosion and sediment control design, site drainage; and West Virginia Division of Highways (WVDOH) roadway design.

Staff Engineer at the City of Morgantown responsible for the functionality of all City owned buildings and systems. Performed civil/site design for sidewalks, parking areas, roof and façade repair, utility repair, storm water management, and erosion and sediment control.

Commissioned officer in the West Virginia National Guard responsible for various earthwork operations in North America, Africa, and the Middle East. Served as the Brigade Civil Engineer charged with technical design and surveying of road networks, helipads, underground utilities, and various other civil engineering projects.

Project engineer at Seal Engineering responsible for developing comprehensive engineering plans and specifications for restoration of building envelope systems. Notable projects include reconstruction of the Pentagon roof after 9/11, design of new roofing system for the AIA headquarters building, and various roof and façade repairs to multiple Smithsonian buildings.

#### Project Management

Performed project management services on various projects including public infrastructure and private development. Responsible for ensuring projects remain on schedule and budget, resolve issues that arise during construction, prepare pay applications, coordinate multiple contractors, and work with local authorities to ensure work is completed in compliance with local zoning and building codes.

Administered multiple construction contracts for the City of Morgantown. Notable projects include the renovation of the Metropolitan Theater, the Morgantown Marketplace, and the LEED certified North Side Fire Station.

#### Regulatory

Served as the steward of the public rights-of-way for the City of Morgantown ensuring development within the City did not encroach or damage publicly owned lands. Responsible for the review of all building permit applications submitted to the City. Worked directly with the public and City officials to resolve various engineering issues. Examples include interpretation of City Codes and regulations as they related to accepted engineering practices, assessment of potentially unstable structures, and general public safety concerns.

Responsible for preserving the City of Morgantown's floodplains by ensuring development adhered to all the federal, state and local regulations that apply to flood plain areas.

#### Public Service

Serving as a member of the Morgantown Municipal Green Team. Ongoing projects include expanding recycling to the commercial sector of Morgantown and a long term study of energy efficiency of City assets such as building utilities, street lights, and the City fleet.

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

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

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

**DEFINITIONS:**

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

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

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

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

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Cheat Road Engineering

Authorized Signature: [Signature] Date: 8/26/16

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 26<sup>th</sup> day of August, 2016.

My Commission expires 10 - 14, 2020.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 08/01/2015)