

Hornor

*Since
1902*

Bros. Engineers

Civil, Environmental and Consulting Engineering

140 S. Third Street • P.O. Box 386 • Clarksburg, West Virginia 26302
Phone (304) 624-6445 • Fax (304) 624-6448 • E-Mail: Eng@HBE1902.com • www.HornorBrosEng.com

1902 *117 YEARS OF ENGINEERING EXCELLENCE* **2019**



STATEMENT OF QUALIFICATIONS

Solicitation No.: CEOI 0310 DNR190000005

A/E Services – Waterline Replacement at

Various State Parks

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**LETTER OF INTEREST AND
QUALIFICATIONS**

February 22, 2019

Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Attn: Guy Nisbet, Buyer

**RE: Solicitation No.: CEOI 0310 DNR1900000005
A/E Services – Waterline Replacement at Various State Parks**

Dear Mr. Nisbet:

Hornor Brothers Engineers is pleased to offer its experience and professional expertise to the West Virginia Division of Natural Resources for planning, design and construction phase engineering services associated with the referenced project. It is my understanding from the solicitation that the project is for waterline replacements at Babcock, Chief Logan, North Bend, and Watoga State Parks where each has a failing water distribution system that is beyond its life and needs to be replaced.

We recently completed the design for 36,000 LF of waterline replacement for the Mannington PSD. It will be under construction in 2019. The contact person is Dave Smith, General Manager (304-986-1010). This winter we are also completing the design for a 164,000 LF waterline replacement for the Monumental PSD in Marion County. The contact person is Eugene Chipps, General Manager (304-363-1700). These are both current projects that have improvements which are similar to what the DNR would like to accomplish at these state parks. You may contact these managers for a reference with regard to our experience and service.

Over the past 50 years, Hornor Brothers Engineers has designed many types and sizes of water projects. Other examples of our projects which consisted primarily of waterline replacement or relocation are the following:

- Summit Park PSD (Harrison County)
- Whitmer Water Association (Randolph County)
- Tri-County Water Association (Taylor, Marion, and Harrison Counties)
- Bingamon PSD (Harrison County)
- Montana Water Association (Marion County)
- Clarksburg Water Board (four projects)
- Town of West Union (Doddridge County)

Consequently, I am confident that we have the experience and knowledge to effectively design the improvements that are proposed for these four state parks.

Department of Administration, Purchasing Division
 2019 Washington Street East
 Charleston, WV 25305-0130
 February 22, 2019, Page 2

Attached is our company profile which details our history, experience, personnel, qualifications and references. The majority of our firm's business is the design and project management of utility infrastructure systems for public service districts, municipalities, and water associations. Many of our water projects are with clients for whom we have worked on multiple projects over many years. I have included several letters of recommendation from existing clients in the "References" section of our profile that attest to our firm's capabilities.

See the following information for other recent water system clients and projects. Feel free to contact any of these references to discuss our professional services.

<u>Name</u>	<u>Project Size</u>	<u>Contact Person</u>	<u>Phone No.</u>	<u>Bids Over/Under Budget</u>
Adrian PSD, Phase VI	\$ 5,500,000	Nina Monroe, Ret. Manager	304-613-8414	Under
Adrian PSD, Phase VII	\$ 950,000	Nina Monroe, Ret. Manager	304-613-8414	Under
Whitmer Water Association	\$3,428,000	Paula Teter, President	304-227-4153	Under
Mannington PSD (2 projects)	\$5,556,000	Dave Smith, Manager	304-986-1010	Under
Summit Park PSD	\$1,200,000	Mary Seymour, Manager	304-623-5304	Under
Wetzel County PSD, Phase IV	\$3,648,000	Keith Nelsen, Ret. Manager	304-771-3030	Under
Huttonsville PSD	\$6,925,000	Louise McAtee, Manager	304-335-2035	Under
Mt. Hope Water Association	\$ 300,000	Donnie Tenney, President	304-472-4693	Under

Hornor Brothers Engineers is familiar with all facets of a project, including facilities planning, funding options, design, permits, construction inspection and project administration. Our construction plans are highly detailed which lead to better construction prices.

We are well qualified and have extensive and proven experience in this type of work as is evidenced by our history. Therefore, our firm is very interested in assisting the Division of Natural Resources with this project. We would welcome the opportunity for an interview and look forward to hearing from you at your earliest convenience. If you have any questions or need additional information, please let me know.

Yours truly,

HORNOR BROTHERS ENGINEERS

Paul A. Hornor III, P.E.
 PRESIDENT

TH:jmh
 Enclosure
 File: 2018-117 Resubmittal , Correspondence 2

REQUIRED FORMS



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: 545312

Doc Description: A/E Services-Water Line Replacement at Various State Park

Proc Type: Central Contract - Fixed Amt

Date issued	Solicitation Class	Solicitation No	Version
2019-02-08	2019-02-25 13:30:00	CEOI 0310 DNR1900000005	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:
 HORNOR BROTHERS ENGINEERS
 P.O. BOX 386
 CLARKSBURG, WV 26302-0386
 304-624-6445

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet
 (304) 558-2596
 guy.l.nisbet@wv.gov

Signature X *Paul W. Harrison*

FEIN # 55-0197150

DATE February 22, 2019

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

ADDITIONAL INFORMATION:

Addendum

Addendum No.01 issued to add corrected bid opening information as attached that was wrong on initial page 4 of the advertised solicitation.

No other Changes.

Expression of Interest Request

The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Division of Natural Resources from qualified firms to provide necessary engineering, and other related professional services to design and specify for construction as well as provide construction contract administration, for the replacement of certain water lines at Babcock, Chief Logan, North Bend, and Watoga State Parks. The planned improvements may also include any other work necessary for, or related to, the aforementioned facilities, as well as any other necessary ancillary work; all located in Logan, Fayette, Ritchie and Pocahontas Counties, West Virginia.

* Online submissions of Expressions of Interest are Prohibited

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV25305 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Civil engineering	0.00000	

Comm Code	Manufacturer	Specification	Model #
81101500			

Extended Description :

Architectural/engineering services and contract administration for water line replacement at various West Virginia State Parks. Resort State Park.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: FASTER12

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.

HORNOR BROTHERS ENGINEERS
Company

Paul G. Hornor III, PRES.
Authorized Signature

FEB 22, 2019
Date

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

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

Paul A. Hornor III, PRESIDENT
 (Name, Title)
PAUL A. HORNOR III, PRESIDENT
 (Printed Name and Title)
P.O. BOX 386, CLARKSBURG, WV 26302
 (Address)
304-624-6445 / 304-624-6448
 (Phone Number) / (Fax Number)
TREY@HBE1902.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.

HORNOR BROTHERS ENGINEERS
(Company)

Paul A. Hornor III, President
(Authorized Signature) (Representative Name, Title)

PAUL A. HORNOR III, PRESIDENT
(Printed Name and Title of Authorized Representative)

FEB 20, 2019
(Date)

304-624-6445 / 304-624-6448
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

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 exceeds five percent of the total contract amount.

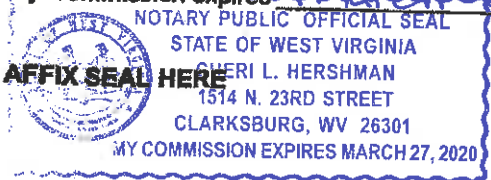
AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §81-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, 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: HARNOR BROTHERS ENGINEERS
Authorized Signature: Russell L. Harnor III, PRES. Date: FEB 20, 2019
State of WEST VIRGINIA
County of HARRISON to-wit:

Taken, subscribed, and sworn to before me this 20th day of February, 2019.

My Commission expires March 27, 2020.



NOTARY PUBLIC Cheri L. Hershman

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

"Interested party" or *"Interested parties"* means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: HORNOR BROTHERS ENGINEERS Address: P.O. Box 386 CLARKSBURG, WV 26302

Name of Authorized Agent: PAUL A. HORNER III Address: SAME AS ABOVE

Contract Number: CE01 0310 DNR190000005 Contract Description: A/E SERVICES - WATERLINE REPLACEMENT AT VARIOUS STATE PARKS
Governmental agency awarding contract: PURCHASING DIVISION / DNR

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

MARSHALL W. ROBINSON

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: Paul A. Horner III

Date Signed: FEB 20, 2019

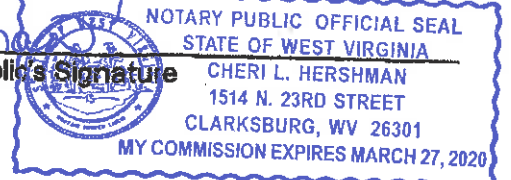
Notary Verification

State of West Virginia, County of Harrison:

I, PAUL A. HORNER III, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 20th day of February, 2019.

Cheri L. Hershman
Notary Public's Signature



To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

PROSPECTUS

PROSPECTUS

FOR: West Virginia Division of Natural Resources
FROM: Hornor Brothers Engineers (HBE)
RE: Solicitation No.: CEOI 0310 DNR1900000005
A/E Services – Waterline Replacement at Various State Parks
DATE: February 22, 2019

1. PROPOSED STAFFING PLAN

Paul A. Hornor III, P.E. would be the person responsible for this project at Hornor Brothers Engineers. He has more 30 years of experience working with public water distribution projects and systems and is a licensed professional engineer in the states of West Virginia and Ohio. All work performed on the project would be under his management and direct supervision.

Other staff experienced in water distribution design that would be involved in this work include: Thomas D. Corathers, P.E., P.S.; John W. Hornor, P.S; Elijah Meyer, E.I.; Craig Howard, Engineering Technician; and Tom Childers, CADD Technician. Resumes for these key individuals are included as an attachment to this proposal. The firm also maintains a full-time field survey crew.

2. LOCATION & CONTACT INFORMATION

All design work on this project would be performed from our office in Clarksburg, WV. The physical address is 140 South Third Street, Clarksburg, WV 26302. The mailing address is P.O. Box 386, Clarksburg, WV 26301-0386. Phone number (304) 624-6445. Fax number (304) 624-6448. Email Trey@HBE1902.com.

3. COST CONTROL

All of our public and private clients are naturally concerned about project cost control. Most also rely on our firm to provide cost estimates based upon our historical construction bidding experience and records. Many of our public projects have fixed budgets and funding based upon our cost estimates. Therefore, we are obviously inclined to design cost effective solutions which fit the client's needs and budget. Input from the client with regard to materials and methods also contribute to cost and quality control

We often use deductive and/or alternate bid items to allow for construction budget flexibility. On larger projects where appropriate, we often prepare multiple contracts which encourages more bidders. Most of our projects have come in below the construction estimate and all have finished within budget. See our attached letter of qualifications for specific recent project examples. However, if construction bids do exceed the budget, we advise and consult with the client to make the necessary adjustments so that the project can move forward.

4. SCHEDULE CONTROL & COMMUNICATION

With more than 60 water projects designed and completed over many years, we have observed that the project elements which are the least predictable and have the most significant impact on the project schedule are: the acquisition of project funding; acquiring necessary lands and rights-of-way; and customer sign-up. Because of this public water projects can take years from concept to completion. However, it appears possible none of these factors will play a role in the waterline replacements at these state parks.

With this project it would be advisable to have a site inspection and kick-off meeting at each of the state parks to confirm the scope of the replacement work and establish a reasonable schedule along with the assignment of responsibilities. It has been our experience in the past that the consulting engineer is typically the one to maintain the lines of communication with each of the parties involved in order to track and maintain the schedule. The engineer can act as the project advocate to push the work, and we are accustomed to doing that.

We would envision major scheduling components to be:

- Confirm scope of project
- Professional services agreement
- Commitment of funding
- Preliminary engineering and cost estimate
- Project mapping
- Final design and bidding documents
- Owner review and approval of contract documents
- Acquisition of permits (WVDOH, WVDEP, Bureau for Public Health, WVDNR and Army Corps of Engineers)
- Rights-of-Way and land acquisitions (if necessary)
- Advertise for construction bids
- Open construction bids
- Award construction contracts
- Construction completion
- System operation
- Project closeout

Based upon our past experience, we would be able to provide reasonable timeframes for each of these tasks. We would recommend to have regular progress meetings which can be in person or by conference call in order to help keep the project members focused and to address concerns that can be helped by input from the project team.

With regard to construction, there should be a monthly progress meeting where the contractor's schedule is reviewed and period pay estimates are approved. Liquidated damages should be part of the contract documents to encourage the contractor to complete the work on time. At every monthly progress meeting, there should be a comparison made of the percent of the project work completed and the percentage of time elapsed in the contract. Adverse weather days should be reported and agreed upon on a monthly basis to avoid a misunderstanding of weather delays at the end of the job.

There should be a resident project representative (RPR) on the construction site every day that the contractor works. Their responsibilities would include observation that all the work performed in a given day was in accordance with the project plans and specifications; the weather conditions; the workers and equipment that were on site; any problems that arose; and the preparation of a daily report. It is also our practice that the RPR communicates with the project manager on a daily basis to discuss progress and schedule.

5. PROPOSED METHOD OF APPROACH

A. Preliminary Engineering Phase

- 1) Review and confirm scope of project with the DNR
- 2) Prepare preliminary construction cost estimates
- 3) Review preliminary costs with owner
- 4) Complete preliminary engineering report

B. Design Phase

- 1) Prepare base mapping
- 2) Provide mapping to owner for identification of underground utilities
- 3) Prepare final design plans on project mapping
- 4) Review plans with owner for approval
- 5) Submit plans and other project documents to permit and funding agencies for approvals
- 6) Provide right-of-way agreements to the owner for acquisition (if necessary)

C. Bidding Phase

- 1) Solicit for permission to bid from the owner and funding agency
- 2) Prepare advertisement for bids and direct mail to contractors
- 3) Participate in pre-bid meeting
- 4) Prepare any necessary addenda
- 5) Participate in the bid opening and the evaluation of the bidders
- 6) Prepare documents for the contract award

D. Construction Phase

- 1) Lead pre-construction conference
- 2) Review contractor submittals
- 3) Serve as a liaison between the owner and the contractor
- 4) Interpret the intent of the contract documents
- 5) Address problems or questions that come up in the field
- 6) Provide construction observation as required
- 7) Attend and lead monthly progress meetings
- 8) Approve pay requisitions
- 9) Perform final inspection and prepare punch list
- 10) Prepare and submit other closeout documents on behalf of the owner

E. Post Construction Phase

- 1) Prepare record drawings for the owner
- 2) Be available to answer questions or resolve issues that may surface during the warranty period
- 3) Conduct an 11-month warranty inspection

F. Dispute Resolution

- 1) Maintain good communication between the project stakeholders, including the contractor
- 2) Fairly interpret the contract documents
- 3) Serve as a liaison between contractor and owner to work out disputes or differences

6. PARK OPERATION

One of the goals of this project is to minimize disruption to the park operation during construction of the project. This plan will need to be tailored to the scope of work and particular conditions that exist at each of the four state park locations. However, generally the following items should be considered:

- Replace only the water distribution facilities that are necessary
- If possible, designate an out-of-the-way location for the contractor's equipment and material yard
- Keep existing waterlines operational while the new waterlines are being installed and tested
- New waterlines must be fully operational before existing waterlines are disconnected
- Schedule construction work during the off season
- Consider performing construction during off hours or at night, if feasible
- Phase the work so construction is restricted to one area at a time
- Use hot tap connections, where possible, to avoid distribution line shut-downs
- Require the contractor clean-up, seed and mulch on a daily basis
- Require the contractor to make repairs immediately when existing lines are broken
- Require the contractor install safety fences where feasible to keep people and traffic away from construction
- Maintain good signage and traffic control plan throughout the construction period
- Provide proper contact information to all the stakeholders to facilitate communication

PROFESSIONAL STAFF RESUMES

PROFILE

EDUCATION

B.S., Civil Engineering, West Virginia University, 1982

REGISTRATION

Professional Engineer, West Virginia, 1987; Ohio, 2013
 Professional Surveyor, West Virginia, 1995

AFFILIATIONS

American Council of Engineering Companies (ACEC)
 West Virginia Society of Professional Engineers
 (WVSPE)
 American Society of Civil Engineering (ASCE)
 National Society of Professional Engineers (NSPE)
 West Virginia Rural Water Association
 IOGA of West Virginia

EXPERIENCE

Years Experience with HBE: 33
 Years Experience with Other Firms: 3

Trey Hornor, President of Hornor Brothers Engineers, has more than 30 years of design expertise to help meet the needs of clients in north central West Virginia area. His experience in all phases of project development is a valuable asset in providing reliable, professional consulting and service to the client.

CURRENT RESPONSIBILITIES

As President of the firm, Trey is responsible for the management and oversight of most of the firm's engineering assignments, assuring professional work and timely execution. Primary activities include work associated with planning, design and project management of water, sewer, and land development projects in West Virginia.

Paul A. Hornor III, P.E.
President



PROJECTS

Trey has been involved with the development and design of the following completed projects:

Water Systems

PROJECTS	COUNTY	
Mt. Hope Water Association	Upshur	3 projects
Adrian Public Service District	Upshur	7 Projects
Century-Volga PSD	Barbour	4 Projects
Town of West Union	Doddridge	3 Projects
Mannington PSD	Marion	3 Projects
Whitmer Water Association	Randolph	
Wetzel County PSD No. 1	Wetzel	4 Projects
Huttonsville PSD	Randolph	2 Projects
Bingamon PSD	Harrison	
Montana Water Association	Marion	
Gilmer County PSD	Gilmer	2 Projects
Clarksburg Water Board	Harrison	6 Projects
Gilmer County Commission (Kanawha Drive Water Project)	Gilmer	
Tri-County Water Association	Marion	
Sun Valley PSD	Harrison	

Sewer Systems

Design and overall project management of several sanitary systems, including a \$7,000,000 collection and treatment project for the Lumberport Area Public Service Sewer District in Harrison County.

Miscellaneous

Design and/or project oversight of land development projects, including oil and gas well sites, comprised of earthwork and embankment, drainage, paving, erosion and sediment control and restoration. Completed projects include parking areas, residential subdivisions, commercial and industrial sites, oil and gas well sites, and airport development.

PROFILE

EDUCATION

B.S.E.T. Civil Engineering, Fairmont State College,
 1982

REGISTRATION

Professional Engineer, West Virginia, 1999
 Professional Engineer, Ohio, 2013
 Professional Surveyor, West Virginia, 1990

EXPERIENCE

Years Experience with HBE: 35
 Years Experience with Other Firms: 0

Tom Corathers, Senior Project Manager for HBE, has served in various capacities during his tenure. He is experienced and knowledgeable in the surveying, design, estimating and management of projects. Tom works closely with our clients, maintaining effective communication, while providing reliable, professional service.

AFFILIATIONS

American Society of Civil Engineers (ASCE)
 National Society of Professional Engineers (NSPE)
 West Virginia Association of Land Surveyors

CURRENT RESPONSIBILITIES

As Senior Project Manager, Tom is responsible for the general oversight of the office engineering and technical design work. His primary activities include planning, design, review and project management of Marcellus oil and gas well site and pit design, land development, drainage, site design, roadway design, retaining wall design, lands slip remediation, sidewalk, streetscape and paving projects.

MISCELLANEOUS

Design and/or project oversight of storm water control, storm water management, earth work slide correction and concrete and block retaining wall projects. As a former survey manager for the firm, Tom provides advice and counsel on surveying related issues as the need arises.

Thomas D. Corathers P.E., P.S.
Senior Project Manager



PROJECTS

Tom has been involved with the development, design and project management of the following projects:

Sewer Projects	County
Heritage Farms Subdivision	Harrison
Valley View Subdivision	Harrison
Lumberport Area Public Sewer Service District	Harrison
John Brennan, Route 50, Quik Mart Store	Taylor

Streetscape Projects	County
City of Clarksburg Streetscape (6 projects)	Harrison
City of Bridgeport Streetscape (3 projects)	Harrison
City of Weston Streetscape (2 projects)	Lewis
City of Morgantown	Monongalia

Land Development/Subdivision Projects	County
Highland Court	Harrison
Crystal Ridge	Harrison
Heritage Farms	Harrison
Bennett Manor	Harrison
Auburn Village	Harrison
Heavenly Trails	Marion
Timber Ridge	Marion

Paving and Drainage Projects	County
United Hospital Center (6 projects)	Harrison
Fairmont State College (5 projects)	Marion
Harrison County Board of Education (2 projects)	Harrison
Town of Lost Creek (2 projects)	Harrison

Site and Infrastructure Projects	County
Gas Well Site Pads, Pits and Access Roads	Various
UHC New Hospital Site	Harrison
G.A.L. Land Company (Several Projects)	Harrison
KLW L.L.C./Ken Woody/Smith Services	Upshur
WYK Associates/ Public Safety Sub-Station, City of Bridgeport	Harrison
Saad Mossallati/POB Facility	Harrison
Tolley Electric	Harrison
City of Clarksburg/Northview Retaining Wall	Harrison
WYK Associates/Bank of Gassaway	Braxton
WYK Associates/VA Hospital	Harrison

PROFILE

EDUCATION

B.S., Civil Engineering, West Virginia University, 2015
 Overall GPA: 4.0

REGISTRATION

Engineer Intern, E.I., West Virginia, 2015

EXPERIENCE

Years Experience with HBE: 2

Years Experience with Other Firms: 0

Elijah Meyer, Project Designer for HBE, has experience in many facets of civil engineering design. Elijah is knowledgeable and capable of performing design, estimation and management of projects ranging from oil and gas well site development to the hydraulic analysis and design of public water distribution systems. Elijah's commitment to quality deliverables and customer service is a valuable asset to Hornor Brother's continued success in north central West Virginia and the surrounding communities.

CURRENT RESPONSIBILITIES

As a project designer, Elijah's duties include the design of land development projects including those in the oil and gas industry. These projects often include the design of access roads, embankments, building/well pads, impoundments and above ground storage tank pads. Elijah's other duties dealing with land development projects also include the design and analysis of: erosion and sediment controls, storm water management systems, and remedial embankment slip repairs.

Other responsibilities include, but are not limited to, hydraulic analysis and design for public water distribution systems, flood analysis and floodplain delineation, and project cost estimation.

Elijah D. Meyer, E.I.
Project Designer



WORK EXPERIENCE

Project Designer

Hornor Brothers Engineers

- Design of various gas well site pads, impoundments and access roads
- Design of various commercial land development projects
- Various embankment and slip repairs
- Flood analysis and Floodplain delineation for commercial sites and oil/gas sites
- Water distribution system design and hydraulic analysis
- Stormwater management design and analysis for land development projects
- Resident project representative for construction observation of water distribution projects

RELATIVE PROJECTS

Elijah has been involved with the development and design of the following projects at Honor Brothers Engineers:

PROJECTS	COUNTY
R.G. Honda Site Development	Harrison
Jason Underwood Bridgeport Site Development	Harrison
Mannington PSD Flaggy Meadow Project	Marion
Monumental PSD Waterline Replacement	Marion
Various Adrian PSD Waterline Projects	Upshur
Mahindra Tractor Floodplain Revision	Harrison
Utica and Marcellus Oil/Gas Site Development	Various
Oil/Gas Well Site Embankment Slip Repairs	Various



PROFILE

EDUCATION

M.B.A., London School of Business & Finance, 2013
 Professional Certificate, Stanford University, Advanced
 Project Management, 2011

B.S., Civil Engineering Technology, Bluefield State,
 2009

REGISTRATION

Project Management Professional, 2011
 Stanford Certified Project Manager, 2010

EXPERIENCE

Craig Howard, Project Designer for HBE has more than 8 years experience in oil and gas and transportation projects. He is experienced and knowledgeable in the surveying, development, estimating, and management of projects from initiation to closeout. His ardent understanding of business objectives and experience in all phases of project development is a valuable asset ensuring clients are provided professional and efficient service.

CURRENT RESPONSIBILITIES

As a Project Designer, Craig's duties include site development design for gas well sites including earthwork, drainage, erosion and sediment control and construction quantities utilizing AutoCAD and Civil 3D.

Other responsibilities include design and hydraulic analysis for public water distribution systems.

WORK EXPERIENCE

Project Designer

Honor Brothers Engineers, Clarksburg, WV

- Design of various as well site pads, access roads and related features
- Slip remediation and as-built drawings
- Water distribution design and hydraulic analysis

Officer, Engineering & MW&S

Norfolk Southern Corporation, Charlotte, NC

- Amtrak Expansion Project - Project oversight of land development and construction including survey
- Track Stabilization / Remediation (Various)
- Project oversight for structural steel selection and installation
- Served as track inspector reporting irregularities and recommended remediation for structural, soil stabilization and erosion.

Project Manager

UTEC Survey Inc., Houston, TX

Project oversight of the development, design, execution, and reporting for:

- Enterprise Redhawk Site Expansion
- BP Atlantis Site Expansion
- Noble Alen Field Development
- PDVSA Geophysical and Geohazard Surveys
- Shell Europa Field Development Array Design and Metrologies
- HESS Tubular Bells Field Development
- Enbridge Field Development
- Williams DGT Geophysical and Geohazard Surveys
- Shell BC-10 Field Development
- BP Thunderhorse Site Expansion
- Shell Cardamom Site Expansion

PROFILE

EDUCATION

West Virginia University 1980-1984
 Civil Engineering & Preparatory Courses

REGISTRATION

Professional Surveyor, West Virginia, 1996

AFFILIATIONS

West Virginia Society of Professional Surveyors

EXPERIENCE

Years Experience with HBE: 26
 Years Experience with Other Firms: 2

John Hornor, Survey Manager, has experience which includes water system construction inspector duties and AutoCad operator experience for survey plats, water system mapping and site development drawings. John is also experienced as a field survey party chief for all types of land surveys, including property and topographic surveys, Alta surveys, elevation certificates, and construction stakeout.

CURRENT RESPONSIBILITIES

John directs the work of survey crews, which includes meeting with clients to review the scope of work, courthouse research, site visits and the preparation of maps, plats and descriptions. He also oversees the field survey operations for water and sewer projects, aerial mapping, subdivision layout and boundary surveys. He also has served as the resident project representative for construction observation of water distribution systems.

John W. Hornor, P.S.
Surveyor Manager



PROJECTS

John has been involved in the surveying aspect of Hornor Brothers Engineers' property, land and municipal development and waterline projects, including the following:

Project	County
ALTA/ACSM Surveys	Various
Marcellus Gas Well Sites	Various
City of Bridgeport – Various Project	Harrison
G.A.L. Land Company – Various Projects	Harrison
Timberbrook Townhouse Development	Harrison
Highland-Clarksburg Hospital	Harrison
Harrison County 911 Center	Harrison
Webster County 911 Center	Webster
FRV Associates – Various Projects	Harrison/ Taylor
WYK Associates – Various Projects	Harrison
Hall Valley Estates	Harrison
Harrison County Board of Education	Harrison
United Hospital Center – Various Projects	Harrison
Charles Pointe – Various Site Development Surveys	Harrison
Highland Ridge Subdivision and Property Stakeout	Taylor
Jones Development/Fed Ex Ground	Harrison
Glimcher Group/Home Depot	Harrison
Bridgeport, Clarksburg, Weston & Morgantown Streetscape Projects	Various
Heritage Farms Subdivision	Harrison
Water Project Mapping for Whitmer Water Association, Town of West Union, Adrian PSD, Huttonsville PSD, Wetzel PSD, Mannington PSD and others	Various
Land Management Group	Marion
NRCS Hardy County Dam Project	Hardy
NRCS Elkwater Fork Dam Project	Randolph
Hall Valley Estates Subdivision	Harrison

COMPANY PROFILE

Civil Engineering Solutions Powered By 100+ Years of Experience

Locally owned and operated since 1902, Hornor Brothers Engineers is the oldest engineering firm in West Virginia. We combine the comprehensive experience of registered professional civil engineers and licensed surveyors with a dependable support staff to provide our clients with value driven results.

100+ years of experience is powerful...put it to work for you.



Specializing in:

- Civil Engineering
- Gas Well Site Development
- Land Surveying and Mapping
- Residential and Commercial Site Development
- Roadways
- Water and Sewer Systems
- Drainage Systems
- Project Management

HORNOR BROTHERS ENGINEERS

140 S. Third Street • P.O. Box 386 • Clarksburg, WV 26302
P: 304.624.6445 | F: 304.624.6448

HornorBrosEng.com



Civil, Environmental and Consulting Engineering
 140 S. Third Street · P.O. Box 386 · Clarksburg, West Virginia 26302
 (304) 624-6445 · Fax (304) 624-6448 · www.HornorBrosEng.com

COMPANY PROFILE

INTRODUCTION

The consulting firm of Hornor Brothers Engineers, located in Clarksburg, West Virginia was founded in 1902. Its principals are Paul Allen (Trey) Hornor III, John W. Hornor and Marshall W. Robinson. For over 100 years the firm has practiced civil engineering as it relates to public works and the environment. Throughout its history, Hornor Brothers Engineers (HBE) has combined the expertise of an experienced, professional engineering staff with a thorough knowledge of north central West Virginia to provide our customers with value driven results. We remain flexible, yet qualified to meet the needs of our clients in an ever-changing world, and continue to uphold our high standards of service in providing effective engineering solutions.

Through professional and personal interaction, Hornor Brothers Engineers' staff is available to identify project requirements, coordinate timely reviews and manage work tasks and other issues that need to be addressed, so that quality service on time and within budget can be completed to the client's satisfaction.

OVERVIEW OF ENGINEERING AND RELATED SERVICES

The firm specializes in land surveying, site development planning, the design and construction administration associated with water and wastewater projects, airport development and other municipal and public works. We have considerable experience in working with most state and federal funding and regulatory agencies. The following is a complete list of the engineering and related services for which Hornor Brothers Engineers is qualified and capable.

Airport Facilities	Funding Applications	Project Management
Civil Engineering	Gas Well Sites	Pumping Facilities
Coal-Related Consulting	General Consulting	Site Evaluations
Construction Observation Services	Highways and Roads	Subdivision Development
Land Surveying & Mapping	Industrial Site Development	Wastewater Collection Systems
Drainage Systems	Infrastructure Investigations and Reports	Water Distribution and Storage
Economic Feasibility Studies	Municipal Engineering	

LAND SURVEYING

Land surveying plays a major role in Hornor Brothers Engineers' scope of business. HBE has performed survey work for over 10,000 individual property owners and hundreds of commercial and industrial clients. These services include contour and feature location maps, lot and farm surveys, subdivisions, gas well locations, to name a few. These surveying capabilities compliment the firm's other areas of business, such as project design, and enable us to handle a maximum amount of project responsibility internally. The service areas for all of the firm's water system expansion projects are surveyed on the ground to produce highly detailed construction mapping. HBE utilizes survey grade GPS equipment, total station instruments with data collector and CADD capabilities, which help provide for timely, sharp, finished plats and drawings.

WATER PROJECTS

In the last 50 years, water distribution and design has comprised a large portion of Hornor Brothers Engineer's business. Water projects have ranged in size from small line extensions on existing systems, to the development of complete water facilities where there was no central system. HBE also specializes in the redesign and rehabilitation of aging, undersized systems that have been unable to keep up with subsequent growth.

The firm offers services in the area of water resources that include expertise in feasibility studies, funding applications, design, construction inspection, project management and start-up. See pictures of various water facilities and construction activity associated with some of our larger projects on the following pages. A comprehensive list of the larger projects whose design and construction inspection Hornor Brothers Engineers has completed in more recent years includes the following:

CLIENT/PROJECT	YEAR COMPLETED	TOTAL COST
Adrian Public Service District, Upshur County (7 th Project - Tanks)	2018	\$ 950,000
Downs Public Service District, Marion County	2018	\$ 325,000
Huttonsville Public Service District, Randolph County (2 nd Project)	2017	\$6,925,000
Adrian Public Service District, Upshur County (6 th Project)	2017	\$5,500,000
Mt. Hope Water Association, Upshur County (7 th Project - Booster Station)	2015	\$ 300,000
Wetzel County Public Service District No. 1 (4 th Project)	2014	\$3,644,000
Mannington Public Service District, Marion County (Tank Project)	2012	\$ 932,000
City of Bridgeport, Harrison County	2012	\$ 350,000
Mannington Public Service District, Marion County	2011	\$4,624,000
Summit Park Public Service District, Harrison County	2011	\$1,200,000
Whitmer Water Association, Randolph County	2011	\$3,428,000
Town of West Union, Greenwood Extension, Doddridge County	2010	\$1,257,000
Century-Volga Public Service District, Barbour County (4 th Project)	2010	\$2,389,000
Adrian Public Service District, Upshur County (5 th Project)	2010	\$ 6,516,000
Mt. Hope Water Association, Upshur County (6 th Project)	2008	\$ 191,000
Town of West Union, Doddridge County High School	2007	\$ 1,360,000
Wetzel County Public Service District No. 1 (3 rd Project)	2007	\$ 4,079,000
Huttonsville Public Service District, Randolph County	2006	\$ 6,500,000
Bingamon Public Service District, Marion County	2006	\$ 1,300,000
Adrian Public Service District, Upshur County (4 th Project)	2004	\$ 3,485,000
Town of West Union, Doddridge County	2003	\$ 810,000
Mt. Hope Water Association, Upshur County (5 th Project)	2002	\$ 3,500,000
Montana Water Association	2002	\$ 930,000
Adrian Public Service District, Upshur County (3 rd Project)	2001	\$ 3,100,000
Gilmer County Public Service District, Gilmer County (3 rd Project)	2000	\$ 1,300,000

Current projects in various stages of design or construction and their projected completion dates include the following:

CLIENT/PROJECT	PROJECTED COMPLETION DATE	TOTAL COST
Mannington Public Service District, Marion County (3 rd Project)	2020	\$ 2,930,000
Monumental Public Service District, Marion County	2021	\$11,800,000
Wetzel County Public Service District (5 th Project)	2022	\$ 1,954,000
Adrian Public Service District (8 th Project)	2022	\$ 8,800,000

ADRIAN PUBLIC SERVICE DISTRICT, UPSHUR COUNTY

Part of Phase III Water Project
Total Project Cost = \$3,100,000



50 GPM Wilsons town Booster Station



43,000 Gallon Salem Ridge Water Storage Tank

The Adrian Public Service District has been a valued client of Hornor Brothers Engineers for approximately 35 years. As part of a master plan, the original system was designed with adequate capacity to serve future phases of development. As of 2017 the District had completed a total of six water system expansion projects comprising more than 145 miles of waterline, eight water storage tanks and ten water booster pumping stations which serve more than 2,100 water customers in southern Upshur County.

In 2018 the PSD is completing construction on a Phase VII water system improvement project that is adding two new water storage tanks to the existing system to accommodate the growth in customers and rehabilitating the PSD's two oldest storage tanks built in 1988. Also in 2018, Hornor Brothers Engineers is working with the PSD in the planning phase of a Phase VIII waterline extension project that will extend water to approximately 180 potential customers.

CENTURY-VOLGA PUBLIC SERVICE DISTRICT, BARBOUR COUNTY
Total Project Cost = \$2,800,000



**150 GPM Water Booster Station Located in Audra State Park
Phase II**



**100,000 Gallon Storage Tank on Talbott Road
Near U.S. Route 33 (Phase II)**

Century-Volga Public Service District, another well-established client, has also utilized the expertise of Hornor Brothers Engineers for more than 25 years. The pictures on this page illustrate a booster station and water storage tank built during the Phase II project.

Since then, two additional water system expansion projects have been designed and constructed, including the Brushy Fork waterline extension project, completed near the end of 2010. This latest project served 88 households and included a new storage tank and constant run booster pump station. As with previous projects, actual costs under ran the project budget, and the PSD was able to make additional improvements to their system with the remaining contingency money.

MT. HOPE WATER ASSOCIATION, UPSHUR COUNTY

Total Project Cost = \$3,500,000

Part of Phase V Water Project



150 GPM Little Sand Run Booster Station



105,000 Gallon Water Storage Tank on Tallmansville Road Near Mt. Carmel Church Road

The Mt. Hope Water Association has been a valued client since its inception more than 40 years ago. Hornor Brothers Engineers has designed every phase and part of this water system since the first phase was initiated in 1970.

The illustrations above are representative of a project that extended from the Association's existing system in 2008. A sixth project, the addition of a new 100,000 gallon storage tank, was completed in 2009. In 2015 the Water Association completed the construction of an upgraded and new main water booster pumping station that replaced the original 40 year old booster station. This project reduced pumping time and increased efficiency.

WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1

Total Project Cost = \$2,700,000



250 GPM Water Booster Station on Route 20



388,000 Gallon Storage Tank Off Route 20 West of Reader

The project illustrated above consisted of approximately 99,000 feet of 8", 6", 4" and 2" waterlines and served 350 customers. Hornor Brothers designed the original, existing system with this Phase II and future projects in mind. Treated water for the PSD is purchased from the City of New Martinsville. In 2007 the PSD completed the construction of a \$4,079,000 Phase III project which served an additional 268 customers in the Pine Grove, Barker, and Jacksonburg areas.

WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1

The photographs below show phases of the \$3,644,000 Phase IV project which was completed in 2014. This project extended water to serve 98 potential homes along State Run, Eight-Mile Ridge, Chiselfinger Ridge and Richwood Run. A \$1,954,000 Phase V waterline extension project is now in the planning stage.



New Hydropneumatic Pumping Station
Along Richwood Road



Foundation for New 64,000 Gallon
Water Storage Tank (Welding, Inc.)



Waterline Installation Along Eight-Mile Ridge
Road (Dan's Marine Service)



Completed Water Storage Tank



New Water Storage Tank Under Construction

HUTTONSVILLE PUBLIC SERVICE DISTRICT, RANDOLPH COUNTY

Total Project Cost = \$6,500,000

390 New Customers: 175,000 ft. of Waterline



158,000 Gallon Becky's Creek Storage Tank and Site Under Construction



Background – New Master Meter Station
Foreground – Foundation for Chemical Feed Station



Typical Thrust Blocks for Tee and Hydrant Assembly

The Huttonsville Public Service District retained Hornor Brothers Engineers for a large waterline extension from the City of Elkins to south of the Town of Huttonsville. This project included several tanks and booster pump stations and served more than 500 customers.



Connection of 10" HDPE River Crossing Pipe (Directionally Drilled) to 10" C-900 Pipe at Tygart Valley River

HUTTONSVILLE PUBLIC SERVICE DISTRICT, RANDOLPH COUNTY

In addition to the previous project, the Huttonsville Public Service District again retained Hornor Brothers Engineers for design and construction phase engineering services associated with a second large water system expansion project serving the communities of Valley Head, Mingo and other areas. This project now serves 330 customers and was fully completed in 2017.



50,000 Gallon Storage Tank Near Mingo



130,000 Gallon Storage Tank Near Valley Head

WHITMER WATER ASSOCIATION, RANDOLPH COUNTY

The Whitmer Water Association in Randolph County, WV operated a small water distribution system that, after 100 years of operation, was falling apart. It did not have a reliable distribution system or source of water. Working with Hornor Brothers Engineers, a complete new water system was designed and constructed consisting of a new water treatment plant, new distribution lines and a water storage tank. The system also extended service to new customers and provides the fire flow protection that they never previously had.



New 150,000 Gallon Water Storage Tank
Above Whitmer



New Water Treatment Plant

MONTANA WATER ASSOCIATION

Total Project Cost = \$930,000



The Montana Water Association Project was comprised of the replacement of undersized waterlines and the addition of this storage tank and a new water booster pump station. The larger lines and tanks also provided reliable fire protection to a 40 year old water system which had never had it before.

BINGAMON PUBLIC SERVICE DISTRICT

Total Project Cost = \$1,300,000



The Bingamon Public Service District water system improvement project was comprised of the replacement of approximately 20,000 ft. of old and undersized waterlines. A new 100,000 gallon water storage tank was included, as well as fire protection for the communities of Peora and Wyatt. Additionally, the PSD's two main booster pumping stations were refurbished and fitted with greater pumping capacity.

CLARKSBURG WATER BOARD



Total Project Cost = \$4,400,000
Two 1,000,000 Gallon Storage Tanks
Part of FBI Water Project



Main Street Waterline Replacement Project
New 12" Ductile Iron Pipe Installation

The Clarksburg Water Board extended its waterline north from Clarksburg for the purpose of connecting to the following six major customers: Enlarged Hepzibah PSD, City of Bridgeport, FBI Fingerprint Identification Complex, City of Shinnston, Summit Park PSD and Tri-County Water Association. The extension consisted of 62,000 feet of 20", 16", 12" and 8" ductile iron pipe. Also included were three 1,000,000 gallon water storage tanks, approximately 30 new residential customers and a 2,000 GPM booster station.

The Clarksburg Water Board distribution system had 8" existing waterlines along Main Street and Pike Street in Clarksburg that were over 110 years old. Carrying capacity had diminished, maintenance had increased, and the Board decided to replace these lines with new 12" ductile iron pipe. Three separate waterline replacement projects accomplished the replacement and upgrading of those antiquated lines. The replacement involved complex excavation and line placement to work around the many other utilities inherent with a downtown area.

TOWN OF WEST UNION



Total Project Cost = \$810,000
New 250,000 Gallon Storage Tank

The Town of West Union obtained a West Virginia Infrastructure and Jobs Development Council loan to make various improvements to its existing municipal water system, including the replacement of old and undersized waterlines, non-functioning valves and fire hydrants and its original water storage tank. Interestingly, the new 250,000 gallon tank constructed as a part of this project, replaced an existing concrete storage tank previously designed by Hornor Brothers Engineers nearly 70 years earlier.

The Town also retained Hornor Brothers Engineers for a water and sewer system expansion project to the new Doddridge County High School with a project cost of \$1,360,000 which was completed in 2007, and a waterline extension project west to the communities of Duckworth and Greenwood at a cost of \$1,257,000 which was completed in 2010.

REFERENCES

REFERENCES

WATER SYSTEM DEVELOPMENT

ADRIAN PUBLIC SERVICE DISTRICT

Paul A. Spencer, Chairman
P.O. Box 87, French Creek, WV 26218
Home (304) 472-00555
Nina Monroe, General Manager
Office (304) 924-6107

HUTTONSVILLE PUBLIC SERVICE DISTRICT

Louise McAtee, General Manager
P.O. Box 277, Mill Creek, WV 26280-0277
Phone (304) 335-2035

MANNINGTON PUBLIC SERVICE DISTRICT

Dave Smith, Manager
486 Flaggy Meadow Road, Mannington, WV 26582
Phone (304) 376-9139

MT. HOPE WATER ASSOCIATION

Donnie Tenney, President
1925 Tallmansville Road, Buckhannon, WV 26201
Phone (304) 472-2526
Sheila Thomason, Office Manager
Phone (304) 472-3153

RURAL UTILITIES SERVICE

David E. Satterfield, State Engineer (Retired)
153 Mingo Street, Morgantown, WV 26505
Phone (304) 296-8034

SUMMIT PARK PUBLIC SERVICE DISTRICT

Mary Seymour, General Manager
Route 1, Box 200D, Clarksburg, WV 26301
Phone (304) 623-6304

WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1

Forrest Tennant, Chairman
P.O. Box 36, Reader, WV 26167
Phone (304) 386-4578
Keith Nelsen, Former General Manager
Phone (304) 771-3030

WHITMER WATER ASSOCIATION

Paula Teter, President
P.O. Box 23, Whitmer, WV 26296
Phone (304) 227-4153

TOWN OF WEST UNION

Ralph Washington, Mayor
300 Court Street; P.O. Box 5
West Union, WV 26456
Phone (304) 873-1400
Duane Reynolds, Chief Operator
P.O. Box 5, West Union, WV 26456
Phone (304) 873-1249

MUNICIPAL/SITE DEVELOPMENT

CITY OF CLARKSBURG

Mr. Anthony Bellotte, Director of Public Works
902 N. Third Street, Clarksburg, WV 26301
Phone (304) 624-1681

WYK ASSOCIATES, INC.

James Swiger, President
205 Washington Ave., Clarksburg, WV 26301
Phone (304) 624-6326
William E. Yoke (Retired)
554 East Main Street, Clarksburg, WV 26301
Phone (304) 624-4665

UNITED HOSPITAL CENTER

Geoff Marshall, Vice President
Engineering Support Services
327 Medical Park Drive, Bridgeport, WV 26330
Phone (304) 342-1220

ALLEGHENY SURVEYS, INC.

Ben Singleton, Vice President
237 Birch River Road, P.O. Box 438
Birch River, WV 26610
Phone (304) 649-8606; Cell (304) 482-4889

BRIDGEPORT UNITED METHODIST CHURCH

Rev. Steve Engle, Associate Pastor
251 Worthington Drive, Bridgeport, WV 26330
Cell Phone (304) 677-1061

**Adrian Public Service District
P.O. Box 87
French Creek, WV 26218-0087
Phone/Fax (304) 924-6107; Email: nina.apsd@cebridge.net**

September 16, 2016

**RE: Letter of Recommendation
Hornor Brothers Engineers**

To Whom It May Concern:

On behalf of the Adrian Public Service District, it is our pleasure to highly recommend the engineering services of Hornor Brothers Engineers in Clarksburg.

Our PSD was formed in 1979, and Hornor Brothers was retained shortly thereafter to design our original water system. Since that time, our system has grown from nothing to more than 2030 customers. We have completed six large water project extensions and are currently working on a seventh project which should be going out for bids before the end of this year.

Hornor Brothers Engineers has served as our engineering consultant continuously for over 30 years and for all of our water projects. Upon completion of our Phase VII project, the Adrian PSD will have approximately 2030 customers, 152 miles of waterlines, multiple tanks and booster pumping stations.

All of our projects designed by Hornor Brothers have finished under budget and have functioned the way they were intended. They understand all aspects of project design, funding, permitting and also provide quality contract administration during construction, including experienced construction inspectors. Without Hornor Brothers' guidance and expertise, we would not have been able to so successfully expand public water service over much of southern Upshur County.

In conclusion, we recommend your utility board retain Hornor Brothers Engineers when it considers engineering firms for its next water system expansion project. They are genuinely good people to work with as well as being highly competent.

Yours truly,

ADRIAN PUBLIC SERVICE DISTRICT

Don Killingsworth, Chairman



Nina Monroe, General Manager





HUTTONSVILLE PUBLIC SERVICE DISTRICT

P.O. BOX 277 ● Mill Creek West Virginia ● 26280

ADMINISTRATIVE OFFICE
PHONE: 335-2035
FAX: 335-4601

September 14, 2016

RE: Letter of Recommendation – Hornor Brother Engineers

To Whomever This May Concern:

The Huttonsville Public Service District is pleased to give a recommendation for Hornor Brother Engineering (HBE) located in Clarksburg WV.

Hornor Brother Engineers (HBE) have completed one water project in 2007 for the Huttonsville Public Service District and currently are working upon the completion of another water project at this time in the areas of Valley Head and Mingo. (HBE) does a wonderful job with their plans, specs and pre-bid packages.

During the construction phase of the project (HBE) Trey was always on hand to speak with and would get into contact with the contractor to see what was going on. There were very few issues the Huttonsville PSD had to deal with regarding the contractors.

(HBE) Trey made sure we had a full time inspector in the field at all times during the water project.

During our monthly draw down meetings (HBE) Trey introduced the draw-downs to the Board of Directors , explained in great detail where the contractors were at, how he arrived at the percentage of completion.

If the Huttonsville PSD were asked of all of the Engineering firms the PSD has had employed for them who they preferred working for them the most the answer would be Hornor Brother Engineering as they are professional, honest and they know how to put together a great project and present it to sell.

They are a great Engineering Firm and we are proud to say we have had them working for the Huttonsville PSD and in the future should we have a need for an engineering firm Hornor Brothers would be in the top of our list.

Louise A McAtee
General Manager

Huttonsville PSD
Mill Creek WV

"This is an Equal Opportunity Program. Discrimination is prohibited by Federal Law. Complaints of discrimination may be filed with the Secretary of Agriculture, USDA, Washington DC, 20250-0700."

MANNINGTON PUBLIC SERVICE DISTRICT
P.O. BOX 205
MANNINGTON, WV 26582
PHONE (304) 986-1010 FAX (304) 986-1018

September 13, 2016

RE: Letter of Recommendation – Hornor Brothers Engineers

To Whom It May Concern:

It is the pleasure of the Mannington Public Service District to highly recommend the engineering firm of Hornor Brothers Engineers (HBE) located in Clarksburg, West Virginia. HBE has been a complete blessing to the Mannington PSD.

They designed and oversaw the construction on several large multi-faceted projects for us between 2010 and 2012. They designed a complex layout of 25 miles of new pipeline, containing 8", 6" and 4" and a small amount of 2" pipe. They also designed four new water tanks and associated telemetry system associated with the projects. We also added two new fully automated pump houses during that period.

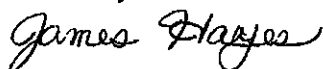
HBE also interfaced with the on-site construction contractor to assure appropriate materials were ordered and installed correctly, as well as furnishing an on-site full-time construction observer. If questions arose during a project, the HBE office staff was superb in connecting the PSD field employees to the correct personnel to help with the issues at hand.

Trey Hornor was absolutely the best in regards to the oversight of the entire job. He always knew who to contact to correct any problems that arose. He was instrumental in conducting our monthly project meeting for the entire PSD staff and other associated groups, such as RUS and state and county governments.

Because of their past performance for the Mannington PSD we have once again retained HBE to to perform the engineering and related consulting services associated with the upgrade of the Flaggy Meadow, Bingamon and Harter Hill areas of our existing water system. Trey's knowledge of all facets of a project, including funding, design, and permits, make us confident that this project will be as successful as the previous ones.

Please feel free to contact us if you have any further questions or need additional information.

James Hayes, Chairman



Mannington PSD

**MT. HOPE WATER ASSOCIATION
1925 TALLMANVILLE ROAD
BUCKHANNON, WV 26201-1637
PHONE (304) 472-2526 FAX (304) 472-3511**

September 20, 2016

TO WHOM IT MAY CONCERN:

**RE: Letter of Recommendation
Hornor Brothers Engineers
Clarksburg, WV 26302**

Mt. Hope Water has been providing water service to the Tallmansville Road area of Upshur County (approximately 1200 customers) for the past forty-five (45) years.

Hornor Brothers Engineers of Clarksburg (Paul A. Hornor, Jr. and Trey Hornor) has provided ALL the engineering services since our Association's inception. Our 7th project was the construction of an upgraded and new main water booster pumping station and was completed in 2015. This project replaced the original booster pump station of 40 years ago. Hornor Brothers, as always, was instrumental in helping us complete another successful project.

The Board of Directors highly recommends Hornor Brothers Engineers to perform any services relating to waterline installations or extensions. We find them to be highly qualified, dependable and honest in their performance. Designs and specifications are always followed as presented, and we feel that our system operates efficiently due to their expertise of engineering designs and hydraulics.

Should we be of any further assistance, please do not hesitate to contact our office at any time.

Respectfully submitted,



**Donnie Tenney, President
Mt. Hope Water Association**

SUMMIT PARK PUBLIC SERVICE DISTRICT
100 COAL ST.
CLARKSBURG, WV 26301
304-623-5304

Victor L. Leon, Chairman
Robert W. Bush, Treasurer

Robert P. Hinebaugh, Secretary
Mary E. Seymour, General Manager

September 13, 2016

RE: Hornor Brothers Engineers
P.O. Box 386
Clarksburg, WV 26302

To Whom It May Concern:

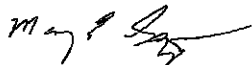
It is our pleasure to recommend the engineering services of Hornor Brothers Engineers of Clarksburg, West Virginia.

Hornor Brothers has consulted and engineered many projects for Summit Park PSD and over the years we have come to rely on their expertise and professionalism.

In 2010, Hornor Brothers was selected out of several engineering firms to be the lead engineer on our Abandon Mine and Lands/Department of Environmental Protection waterline replacement project. This project was awarded grant funds in an excess of 1.3 million dollars. Hornor Brothers was instrumental in seeing us through the entire project. I would especially like to mention that Hornor Brothers provided engineering supervision and construction oversight during our project that was an immense benefit to our small PSD. Hornor Brothers exceeded our expectations during this last project and it is always a pleasure to conduct business with them.

Please feel free to contact us about our recommendation, should you have any questions. We would be happy to provide any additional information that may assist you in your decision.

Sincerely,



Mary E. Seymour
General Manager

WETZEL COUNTY PUBLIC SERVICE DISTRICT NO. 1

Forrest L Tennant, Chairman
N. Keith Nelsen, Manager
PO Box 456
Reader WV 26167-0456
wcpsd1@frontiernet.net

September 16, 2016

RE: Hornor Brothers Engineers

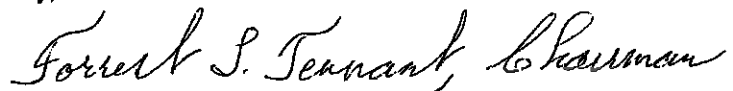
To Whom It May Concern:

On behalf of the Wetzel County PSD 1 Board, I am pleased to write this letter of recommendation on behalf of Hornor Brothers Engineers. I personally know the people of this firm and with complete sincerity can say that they are competent, helpful, trustworthy, and truly care about each project start to finish and beyond. Hornor Brothers Engineers has a personal hands on approach. Under the guidance of Trey and his staff, we have completed four large multi-million dollar projects. Hornor engineered projects always have quality workmanship guided by the engineer and close inspection to detail by people that genuinely have our interest to finish a project on time, under budget and with confidence.

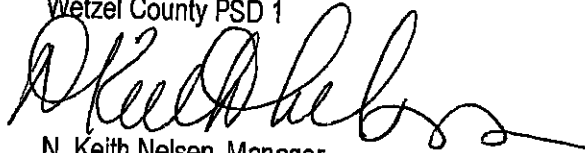
The Board as well as myself, feels very strongly that an engineering firm such as Hornor Brothers can and will provide the necessary quality and attention to detail with great integrity and project they are chosen for. Trey and his staff give a sense of personal interest and involvement to all aspects of the project. We value our relationship with this company and look forward to working with them on future projects as the need arises.

Choosing an engineering company is one of the most important decisions made in the process of projects as they form, and we suggest that Hornor Brothers be given a very close look. Please feel free to contact the Board members or myself with any questions or concerns that you may have. We will be happy to speak to you or give you any additional information, as you require.

Sincerely,



Forrest L. Tennant, Chairman
Wetzel County PSD 1



N. Keith Nelsen, Manager
Wetzel County PSD 1

CERTIFICATES OF AUTHORIZATION

CERTIFICATE OF

Authorization

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*

HORNOR BROTHERS ENGINEERS

C00239-00

Engineer in Responsible Charge: PAUL (TREY) A HORNOR, III - WV PE 010281

*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, 2018 - December 31, 2019

providing 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.

BOARD PRESIDENT

WEST VIRGINIA BOARD OF PROFESSIONAL SURVEYORS



Certificate of Authorization



Hornor Brothers Engineers

Clarksburg, West Virginia

CERTIFICATE OF AUTHORIZATION # 19-5224

This certificate is issued by the West Virginia Board of Professional Surveyors in accordance with *W.Va. Code §30-13A-20*
The person or organization identified on this certificate is licensed to conduct professional surveying and mapping services
in the State of West Virginia for the period

January 1, 2019 through December 31, 2019

This certificate is not transferrable and must be displayed at the office location for which issued.

In witness whereof, I have put my hand, this 31st day of December 2018

R. Michael Shepp, P.S., Chairman
James T. Rayburn, P.S., Member

2019



Sefton R. Stewart, P.S., Secretary
Gary D. Facemyer, P.E, P.S, Member

Douglas C. McElwee, *Esg.*, Public Member