

August 28, 2020

Mr. Guy Nesbit, Buyer
Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

RECEIVED
2020 SEP -1 AM 10:37
WV PURCHASING
DIVISION

**RE: Expression of Interest
Sardis (Saas) Landslide Project Harrison County, WV
CEOI 0313 DEP 2100000001**

Dear Mr. Nesbit:

Hornor Brothers Engineers is pleased to provide this response to the Purchasing Division's request for an expression of interest for professional engineering services for the referenced project. Hornor Brothers Engineers is a civil engineering and surveying firm that has been in continuous operation in Clarksburg for over 118 years.

Our firm is very experienced in the design for site development, grading, drainage, and sediment and erosion control, which are the key elements of this project. Our contract documents typically include detailed design plans and specifications. Specific examples of our work are found in the attached information.

With regard to prior WVDEP/AML projects, we performed the design for the completed Stanley Subsidence II AML Enhancement project in Harrison County, the Summit Park PSD waterline replacement project in Harrison County, and the Century Volga PSD waterline extension project in Barbour County. We are interested in expanding our services into more of the AML reclamation projects, especially those in north-central West Virginia.

We have prepared the design plans and specifications for approximately 100 gas well site developments, including access roads, pads and impoundments. Furthermore, we have prepared designs for numerous slips and landslides associated with older existing gas well sites and WVDOH roads which lead to them. Therefore, we have a great deal of practical experience associated with the type of work needed for the Sardis Landslide. Additionally, our office is relatively close to that site.

If there is a need for sub-surface investigation, we would propose to use Novel Geo-Environmental, LLC as our geotechnical sub-consultant with whom we have worked on previous projects. They are experienced, well-qualified, and their staff have performed geotechnical and quality control services on many DEP/AML and WVDOH projects throughout the state.

Mr. Guy Nesbit, Buyer
Department of Administration, Purchasing Division
Expression of Interest, Sardis (Saas) Landslide Project
August 28, 2020
Page 2

We appreciate your consideration of our qualifications and look forward to an opportunity to work with the WVDEP on this project. We hope that the selection committee would consider our smaller, yet qualified firm for this work.

If you have any questions or need additional information, please let us know.

Yours truly,

HORNOR BROTHERS ENGINEERS

A handwritten signature in blue ink, reading "Trey Hornor". The signature is fluid and cursive, with the first name "Trey" and last name "Hornor" clearly distinguishable.

Trey Hornor, P.E.
PRESIDENT

**CENTRALIZED EXPRESSION OF
INTEREST AND ADDENDUM
ACKNOWLEDGMENT**



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: 755110

Doc Description: Addendum No.01 EOI - Sardis (Saas) Landslide Project

Proc Type: Central Purchase Order

| Date Issued | Solicitation Closes | Solicitation No | Version |
|-------------|------------------------|-------------------------|---------|
| 2020-08-14 | 2020-09-03 13:30:00 | CEOI 0313 DEP2100000001 | 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:

FOR INFORMATION CONTACT THE BUYER

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

Signature X

FEIN # 55-0197150

DATE AUG. 27, 2020

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

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. HORNER III, PRESIDENT
 (Name, Title)
PAUL A. HORNER III, PRESIDENT
 (Printed Name and Title)
P.O. Box 386
 (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.

HORNER BROTHERS ENGINEERS
 (Company)
PAUL A. HORNER III, PRESIDENT
 (Authorized Signature) (Representative Name, Title)
PAUL A. HORNER III
 (Printed Name and Title of Authorized Representative)
AUG 27, 2020
 (Date)
304-624-6445 / 304-624-6448
 (Phone Number) (Fax Number)

ADDITIONAL INFORMATION:**Addendum**

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

Expression of Interest
(WV DEP Sardis (Saas) Landslide Project)

In accordance with West Virginia Code: 5A-3 and WV Code 5G-1-3, The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The WV. Department of Environmental Protection (WVDEP) from qualified firms to provide architectural/engineering services; Aspects of the design are to include, but not be limited to; Civil, Geological and Hydrological.

Firm will be responsible for Design of the following:

- . Access or accesses as required.
- . Geotechnical analysis.
- . Stabilize landslide.
- . Hydrologic and hydraulic analyses.
- . Clear and grub affected areas.
- . Regrade as necessary.
- . Install drainage channels, underdrains, and/or other controls to safely convey water off-site.
- . Condition and revegetate all disturbed areas.
- . Obtain required permits as determined

and other related professional services to design and specify for construction as well as provide construction contract administration, in Harrison County, West Virginia. per the bid requirements, specifications and terms and conditions as attached hereto.

| INVOICE TO | | SHIP TO | |
|---|--|--|--|
| ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV25304 US | | ENVIRONMENTAL PROTECTION OFFICE OF AML&R 601 57TH ST SE CHARLESTON WV 25304 US | |

| Line | Comm Ln Desc | Qty | Unit Issue |
|------|---------------------------------|---------|------------|
| 1 | EOI Engineering Design Services | 0.00000 | |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 81100000 | | | |

Extended Description :

*Dates of Service are estimated for bidding purposes only.

SOLICITATION NUMBER: CEOI 0313 DEP2100000001

Addendum Number: No.01

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

Applicable Addendum Category:

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

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. Vendor question and agency response.

No other Changes.

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

Terms and Conditions:

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

ATTACHMENT A

CEOI 0313 DEP2100000001

**Sardis (Saas) Landslide Project
Vendor submitted Questions and Agency Responses
August 13th, 2020**

- 1) You referenced AMD mitigation design on page 3 of the EOI, do you know if the AMD is due to the impoundment or some other variable?
 - A. It is believed that impoundments are the primary issue at both sites. The statement for "Design to Mitigate AMD drainage, including possible horizontal borings", was included as differentiating between the sites and for referring to the potential repair, retrofit and/or replacement of an existing AML mine seal and conveyance system, mitigate seeps, etc.

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CE01 0313 DEP 2100000001

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 A. Hornor III

Authorized Signature

AUG 27, 2020

Date

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

PROJECT TEAM INFORMATION



Civil, Environmental and Consulting Engineering

Main & Third Streets · P.O. Box 386 · Clarksburg, West Virginia 26302 ·
(304) 624-6445 · Fax (304) 624-6448 · www.HornorBrosEng.com

PROFILE

EDUCATION

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

REGISTRATION

Professional Engineer, West Virginia, 1987; Ohio, 2013;
Pennsylvania, 2019; Maryland, 2019
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

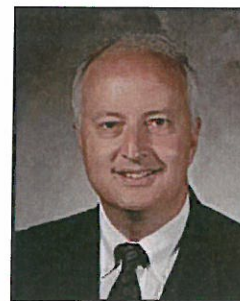
Years Experience with HBE: 35
Years Experience with Other Firms: 3

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 | 8 Projects |
| Century-Volga PSD | Barbour | 4 Projects |
| Town of West Union | Doddridge | 3 Projects |
| Mannington PSD | Marion | 4 Projects |
| Whitmer Water Association | Randolph | |
| Wetzel County PSD No. 1 | Wetzel | 5 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.



Civil, Environmental and Consulting Engineering

Main & Third Streets · P.O. Box 386 · Clarksburg, West Virginia 26302 ·
(304) 624-6445 · Fax (304) 624-6448 · www.HBE1902.com

PROFILE

EDUCATION

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

REGISTRATION

Professional Engineer, West Virginia, 1999
Ohio, 2013; Pennsylvania, 2019; Maryland, 2019
Professional Surveyor, West Virginia, 1990

EXPERIENCE

Years Experience with HBE: 37
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 |
| Road Improvements for Oversized Loads | Multi-State |
| City of Clarksburg | Harrison |
| WYK Associates/Bank of Gassaway | Braxton |
| WYK Associates/VA Hospital | Harrison |



Civil, Environmental and Consulting Engineering

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(304) 624-6445 · Fax (304) 624-6448 · www.HonorBrosEng.com

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: 4

Years Experience with Other Firms: 0

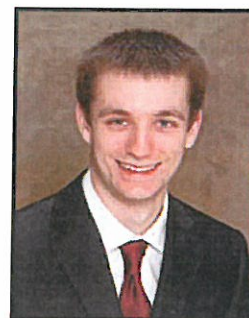
Elijah Meyer, Project Designer for HBE, has experience in many facets of civil engineering design. Elijah is knowledgeable and capable of performing design, estimation and management of projects ranging from oil and gas well site development to the hydraulic analysis and design of public water distribution systems. Elijah's commitment to quality deliverables and customer service is a valuable asset to Honor 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, truck turn analysis for super-sized loads, and project cost estimation.

Elijah D. Meyer, E.I.
Project Designer



WORK EXPERIENCE

Project Designer

Honor 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.
- Road improvement designs for windmill blades transport

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 |
| Logisticus Windmill Transport/Road Improvements | Multit-State |



Civil, Environmental and Consulting Engineering

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(304) 624-6445 · Fax (304) 624-6448 · www.HornorBrosEng.com

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: 28
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 |

ATTACHMENT A
HORNOR BROTHERS ENGINEERS

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

| | | | | | | | | | |
|---|--|--|---|---|--|--|--|--|---|
| PROJECT NAME Sardis (Saas) Landslide Project | | DATE (DAY, MONTH, YEAR) 27 August 2020 | | FEIN 55-0197150 | | | | | |
| 1. FIRM NAME Hornor Brothers Engineers | | 2. HOME OFFICE BUSINESS ADDRESS P.O.Box 386, Clarksburg, WV 26302-0386 | | 3. FORMER FIRM NAME N/A | | | | | |
| 4. HOME OFFICE TELEPHONE 304-624-6445 | 5. ESTABLISHED (YEAR) 1902 | 6. TYPE OWNERSHIP Individual <u>Corporation</u> Partnership <u>Joint-Venture</u> | | 6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <u>NO</u> | | | | | |
| 7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE Hornor Brothers Engineers/P.O. Box 386, Clarksburg, WV 26302-0386/304-624-6445/Paul A. Hornor III/4 | | | | | | | | | |
| 8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Paul A. Hornor III | | | 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS John W. Hornor, P.S. Survey Manager 304-624-6445 Marshall W. Robinson, P.S. 304-649-8606 | | | | | | |
| 9. PERSONNEL BY DISCIPLINE | | | | | | | | | |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <u>2</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>2</u> CIVIL ENGINEERS — CONSTRUCTION INSPECTORS <u>1</u> DESIGNERS — DRAFTSMEN </td> <td style="width: 33%; vertical-align: top;"> — ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS — ENVIRONMENTALISTS — ESTIMATORS — GEOLOGISTS — HISTORIANS — HYDROLOGISTS </td> <td style="width: 33%; vertical-align: top;"> — LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS — SOILS ENGINEERS — SPECIFICATION WRITERS </td> <td style="width: 33%; vertical-align: top;"> — STRUCTURAL ENGINEERS <u>3</u> SURVEYORS — TRAFFIC ENGINEERS — OTHER 9 — TOTAL PERSONNEL </td> </tr> </table> | | | | | | <u>2</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>2</u> CIVIL ENGINEERS — CONSTRUCTION INSPECTORS <u>1</u> DESIGNERS — DRAFTSMEN | — ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS — ENVIRONMENTALISTS — ESTIMATORS — GEOLOGISTS — HISTORIANS — HYDROLOGISTS | — LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS — SOILS ENGINEERS — SPECIFICATION WRITERS | — STRUCTURAL ENGINEERS <u>3</u> SURVEYORS — TRAFFIC ENGINEERS — OTHER 9 — TOTAL PERSONNEL |
| <u>2</u> ADMINISTRATIVE — ARCHITECTS — BIOLOGIST <u>1</u> CADD OPERATORS — CHEMICAL ENGINEERS <u>2</u> CIVIL ENGINEERS — CONSTRUCTION INSPECTORS <u>1</u> DESIGNERS — DRAFTSMEN | — ECOLOGISTS — ECONOMISTS — ELECTRICAL ENGINEERS — ENVIRONMENTALISTS — ESTIMATORS — GEOLOGISTS — HISTORIANS — HYDROLOGISTS | — LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS — MINING ENGINEERS — PHOTOGRAMMETRISTS — PLANNERS: URBAN/REGIONAL — SANITARY ENGINEERS — SOILS ENGINEERS — SPECIFICATION WRITERS | — STRUCTURAL ENGINEERS <u>3</u> SURVEYORS — TRAFFIC ENGINEERS — OTHER 9 — TOTAL PERSONNEL | | | | | | |
| TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>2</u> *RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO N/A | | | | | | | | | |

[illegible][illegible]

12. A. Is your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects: Three (3) projects, Stanley Subsidence II AML Enhancement Project, Harrison County, (construction complete; Century-Volga PSD Brushy Fork Waterline Extension Project, Barbour County (Construction Complete; Summit Park PSD Waterline Replacement Project, Harrison County (construction complete)

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: _____

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: We have performed waterline pipe hydraulic analysis as part of the design process for more than 50 water system expansion or replacement projects. We have also performed hydrological studies of pre and post runoff and storm water management for many site development projects. This would include the new United Hospital Center in Harrison County. Please see the site development section of our company profile for additional projects that required hydrological and hydraulic analysis associated with surface and storm water management.

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: _____

Our firm does not have in-house aerial photography. However, we coordinate aerial photography and mapping, and provide the ground control associated with it using RTK. We also have an in-house land surveying crew that provides boundary feature location and contour surveys.

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: Domestic waterline design comprises a significant part of our business. Hornor Brothers has experience with the design and project administration for more than 50 new or replacement waterline projects. Please see the waterline section of our company profile for a detailed description and photographs of more recent projects which are attached as a part of this proposal. NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: _____

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| | | | |
|--|--------------------------------------|---|---|
| NAME & TITLE (Last, First, Middle Int.) Hornor III, Paul A., President | YEARS OF EXPERIENCE | | |
| | YEARS OF AML DESIGN EXPERIENCE: 3 | YEARS OF AML RELATED DESIGN EXPERIENCE: 35 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 35 |
| Brief Explanation of Responsibilities Paul A. Hornor III is responsible for the management and execution of the firm's assignments. Primary activities includes the overall planning, design and project management of water, sewer, and land development projects in West Virginia | | | |
| EDUCATION (Degree, Year, Specialization) BS, 1982, Civil Engineering | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers; National Society of Professional Engineers; WV Rural Water Association; American Council of Engineering Companies of WV; WV Association of Land Surveyors | | REGISTRATION (Type, Year, State) Professional Engineer, 1987, WV Professional Engineer, 2013, OH Professional Engineer, 2019, MD Professional Engineer, 2019, PA Professional Surveyor, 1995, WV | |

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| | | | |
|--|--------------------------------------|---|---|
| NAME & TITLE (Last, First, Middle Int.) Corathers, Thomas D., P.E. | YEARS OF EXPERIENCE | | |
| | YEARS OF AML DESIGN EXPERIENCE: 3 | YEARS OF AML RELATED DESIGN EXPERIENCE: 37 | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 37 |
| Brief Explanation of Responsibilities Thomas D. Corathers, Project Manager, is responsible for the general oversight of the office engineering and technical work. His Primary activities include planning, design, review and project management of land development, earthwork, drainage, site design, sidewalk, streetscape and paving projects. He also coordinates and reviews the site development designs for oil/gas drill pads and associated access roads and impoundments. | | | |
| EDUCATION (Degree, Year, Specialization) BSET, 1982, Civil Engineering Technology | | | |
| MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Professional Engineers; WV Association of Land Surveyors | | REGISTRATION (Type, Year, State) Professional Surveyor, 1990, WV Professional Engineer, 1999, WV Professional Engineer, 2013, OH Professional Engineer, 2019, MD Professional Engineer, 2019, PA | |

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| | | | |
|--|---------------------------------|---|--|
| NAME & TITLE (Last, First, Middle Int.) N/A | YEARS OF EXPERIENCE | | |
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN EXPERIENCE: | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: |

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| | | | |
|--|---------------------------------|---|--|
| NAME & TITLE (Last, First, Middle Int.) N/A | YEARS OF EXPERIENCE | | |
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN EXPERIENCE: | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: |

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Office Software - AutoDesk Civil 3D 2020, AutoDesk Land Desktop, Hydrocad, Google Earth, Microsoft Office (Word, Excel, Powerpoint, etc.)

Field Equipment - Topcon and Nikon Total Stations, Data Collectors, Trimble GPS GEO Explorer, Trimble RTK GPS system, Levels

Office Equipment - Various desktop computers, HP Plotter, Cannon Plotter, Color and Black and White Copiers

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | NATURE OF YOUR FIRM'S RESPONSIBILITY | ESTIMATED CONSTRUCTION COST | PERCENT COMPLETE |
|---|---|--|-----------------------------|--|
| Adrian PSD VIII Waterline Ext. Project Upshur County, WV | Adrian PSD P.O. Box 87 French Creek, WV 26218 | Complete project design and construction phase engineering, observation and administration | \$7,145,000 | Design 98%; Construction not anticipated to start until 2021 |
| Monumental PSD Waterline Ext. and Improvement Project Marion County, WV | Monumental PSD 862 Husky Highway Ste.1 Fairmont, WV 26554 | Complete project design and construction phase engineering, observation and administration | \$10,323,000 | Design 100%; Construction not anticipated to start until 2020 |
| Mannington PSD Waterline Ext. Project Marion County, WV | Mannington PSD P.O. Box 205 Mannington, WV 26582 | Complete project design and construction phase engineering, observation and administration | \$2,345,000 | Design 100%; Construction is 70% complete and will be fully complete by November 2020 |
| Austin Avenue Retaining Wall Replacement | City of Clarksburg 222 West Main Street Clarksburg, WV 26301 | Complete project design and construction phase engineering and observation | \$278,000 | Design 100% construction will start in September 2020 and be completed by the end of the year |
| Road improvement designs including widenings and drainage | Logisticus Project Group 237 King Street, Suite 3A Charleston, SC 29401 | Various road improvements to accommodate the passage of super-sized loads in WV, OH, and MD. | \$250,000 | Several projects are continuously progressing through the design and construction phases |
| | | | | |
| | | | | |

TOTAL NUMBER OF PROJECTS: 5

TOTAL ESTIMATED CONSTRUCTION COSTS: \$20,341,000

[illegible][illegible]

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | ESTIMATED CONSTRUCTION COST | YEAR | CONSTRUCTED (YES OR NO) |
|--|--|-----------------------------|------|----------------------------|
| City of Clarksburg Road Slip Repairs Harrison County, WV | City of Clarksburg 222 West Main Street Clarksburg, WV 26301 | \$510,000.00 | 2019 | YES |
| Adrian PSD, Phase VII Water Tanks Project Upshur County, WV | Adrian PSD P.O. Box 87 French Creek, WV 26218 | \$772,468.00 | 2018 | YES |
| Downs PSD Waterline Relocation Project Marion County, WV | Downs PSD 862 Husky Highway, Ste. 1 Fairmont, WV 26554 | \$200,000.00 | 2018 | YES |
| Huttonsville PSD, Phase II Waterline Ext. Project Randolph County, WV | Huttonsville PSD P.O. Box 277 Mill Creek, WV 26280 | \$5,217,181.54 | 2017 | YES |
| Adrian PSD Phase VI Waterline Ext. Project Upshur County, WV | Adrian PSD P.O. Box 87 French Creek, WV 26218 | \$4,427,562.12 | 2017 | YES |
| Wetzel Co. PSD No. 1 Phase IV Waterline Ext. Project Wetzel County, WV | Wetzel County PSD No. 1 P.O. Box 456 Reader, WV 26167 | \$2,918,132.57 | 2016 | YES |
| Mt. Hope Water Association New Booster Pump Station Project Upshur County, WV | Mt. Hope Water Association P.O. Box 684 Buckhannon, WV 26201 | \$246,694.72 | 2015 | YES |
| | | | | |

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION | YEAR | CONSTRUCTED (YES OR NO) | FIRM ASSOCIATED WITH |
|---|--|--|------------|-------------------------|-------------------------|
| Various Marcellus Shale Well Site Developments Harrison, Doddridge and Ritchie Counties, WV | EQT Production Co. 115 Professional Place Bridgeport, WV 26330 | 10,000,000 | Open-Ended | YES | Allegheny Surveys, Inc. |
| Robinson Grand Performing Arts Theater Harrison County, WV | City of Clarksburg 222 West Main Street Clarksburg, WV 26301 | 200,000 | 2017 | YES | WYK Associates |
| Pinewood Medical Center Taylor County, WV | United Hospital Center 327 Medical Park Drive Bridgeport, WV 26330 | 150,000 | 2020 | YES | WYK Associates |
| | | | | | |
| | | | | | |

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Hornor Brothers Engineers has performed countless site development designs over many decades. This includes a 10 million cubic yard embankment at Benedum Airport in Harrison County, and more than 100 gas well site access roads and pad embankments throughout north-central West Virginia over the past nine (9) years. These projects have included all the related design elements, including drainage, sediment and erosion control, access roads, retaining walls, etc... Therefore, we have a wealth of expertise that could be applied to the similar requirements of this project. The staff of our proposed sub-contractor, NGE, has considerable experience with AML projects, and we have worked together several times previously.

20. The foregoing is a statement of facts.

Signature: Paul A. Hornor III
Printed Name: PAUL A. HORNOR III

Title: PRESIDENT

Date: AUG. 27, 2020

**NOVEL GEO-ENVIRONMENTAL, LLC
SUB-CONSULTANT**

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**

Attachment "A"

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------------|---|--|-----------------------------------|--|------------------|--------------|------------------------|------------------------|--------------|--------------|------------------------|-------------|-------------|------------------------|--------------------|---------------------|--------------------------------|-----------------------------------|---------------------|--|----------------------|--------------|----------------------------|---------------------------------|---------------------------------|----------------------------|----------------------|--|----------------------------------|--------------|-------------------|--|-------------|----------------|-------------------------|--|-------------|--|--|---------------------------|
| PROJECT NAME: | | DATE: August 26, 2020 | | FEIN: 52-2365940 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. FIRM NAME: Novel Geo-Environmental, LLC | | 2. HOME OFFICE BUSINESS ADDRESS: 171 Montour Road Moon Township, PA 15108 | | 3. FORMER FIRM NAME: NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. HOME OFFICE TELEPHONE: (412) 722-1970 | | 5. ESTABLISHED: 2002 | 6. TYPE OWNERSHIP Limited Liability Corporation | 6a. WV REGISTERED DBE: YES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE: <div style="display: flex; justify-content: space-between;"> <div style="width: 33%;"> 650 Macorkle Ave SW St. Albans, WV 25177 304-201-5180 </div> <div style="width: 66%;"> Office Manager: John E. Nottingham, P.E. No. AML Design Personnel in St. Albans, WV: 5 No. AML Design Personnel in Moon Township, PA : 5 </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM: Amy L. Veltri - CEO John E. Nottingham - President | | | 8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">— ADMINISTRATIVE</td> <td style="width: 33%;">— ECOLOGISTS</td> <td style="width: 33%;">— LANDSCAPE ARCHITECTS</td> <td style="width: 33%;">— STRUCTURAL ENGINEERS</td> </tr> <tr> <td>— ARCHITECTS</td> <td>— ECONOMISTS</td> <td>— MECHANICAL ENGINEERS</td> <td>— SURVEYORS</td> </tr> <tr> <td>— BIOLOGIST</td> <td>— ELECTRICAL ENGINEERS</td> <td>— MINING ENGINEERS</td> <td>— TRAFFIC ENGINEERS</td> </tr> <tr> <td><u>1</u> CADD OPERATORS</td> <td><u>2</u> ENVIRONMENTALISTS</td> <td>— PHOTOGRAMMETRISTS</td> <td><u>6</u> DRILLERS & HELPERS</td> </tr> <tr> <td>— CHEMICAL ENGINEERS</td> <td>— ESTIMATORS</td> <td>— PLANNERS: URBAN/REGIONAL</td> <td><u>4</u> OTHER PERSONNEL</td> </tr> <tr> <td><u>6</u> CIVIL ENGINEERS</td> <td><u>2</u> GEOLOGISTS</td> <td>— SANITARY ENGINEERS</td> <td></td> </tr> <tr> <td><u>3</u> CONSTRUCTION INSPECTORS</td> <td>— HISTORIANS</td> <td>2 SOILS ENGINEERS</td> <td></td> </tr> <tr> <td>— DESIGNERS</td> <td>— HYDROLOGISTS</td> <td>— SPECIFICATION WRITERS</td> <td></td> </tr> <tr> <td>— DRAFTSMEN</td> <td></td> <td></td> <td><u>24</u> TOTAL PERSONNEL</td> </tr> </table> | | | | | | — ADMINISTRATIVE | — ECOLOGISTS | — LANDSCAPE ARCHITECTS | — STRUCTURAL ENGINEERS | — ARCHITECTS | — ECONOMISTS | — MECHANICAL ENGINEERS | — SURVEYORS | — BIOLOGIST | — ELECTRICAL ENGINEERS | — MINING ENGINEERS | — TRAFFIC ENGINEERS | <u>1</u> CADD OPERATORS | <u>2</u> ENVIRONMENTALISTS | — PHOTOGRAMMETRISTS | <u>6</u> DRILLERS & HELPERS | — CHEMICAL ENGINEERS | — ESTIMATORS | — PLANNERS: URBAN/REGIONAL | <u>4</u> OTHER PERSONNEL | <u>6</u> CIVIL ENGINEERS | <u>2</u> GEOLOGISTS | — SANITARY ENGINEERS | | <u>3</u> CONSTRUCTION INSPECTORS | — HISTORIANS | 2 SOILS ENGINEERS | | — DESIGNERS | — HYDROLOGISTS | — SPECIFICATION WRITERS | | — DRAFTSMEN | | | <u>24</u> TOTAL PERSONNEL |
| — ADMINISTRATIVE | — ECOLOGISTS | — LANDSCAPE ARCHITECTS | — STRUCTURAL ENGINEERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — ARCHITECTS | — ECONOMISTS | — MECHANICAL ENGINEERS | — SURVEYORS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — BIOLOGIST | — ELECTRICAL ENGINEERS | — MINING ENGINEERS | — TRAFFIC ENGINEERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>1</u> CADD OPERATORS | <u>2</u> ENVIRONMENTALISTS | — PHOTOGRAMMETRISTS | <u>6</u> DRILLERS & HELPERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — CHEMICAL ENGINEERS | — ESTIMATORS | — PLANNERS: URBAN/REGIONAL | <u>4</u> OTHER PERSONNEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>6</u> CIVIL ENGINEERS | <u>2</u> GEOLOGISTS | — SANITARY ENGINEERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>3</u> CONSTRUCTION INSPECTORS | — HISTORIANS | 2 SOILS ENGINEERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — DESIGNERS | — HYDROLOGISTS | — SPECIFICATION WRITERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — DRAFTSMEN | | | <u>24</u> TOTAL PERSONNEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>4</u> *RPes other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire" for each if copy is not on file with AML.

[illegible]

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

NO: Note that Novel Geo-Environmental (NGE) has not performed any AML design work to date, but our WV Office Manager (John E. Nottingham) and project geologist (Chuck Montgomery) have extensive AML experience with their former firm. Additionally, NGE has held contracts with WVDEP-AML for geotechnical drilling for the northern and southern districts of WV and has completed several drilling projects under this contract.

B. Is your firm experienced in Soil Analysis?

YES: NGE specializes in Geotechnical Engineering including foundation investigations, subsurface investigations, cut slope design, fill embankment analysis and design, slope stability analysis, landslide analysis and corrective design, mine subsidence investigations, geologic studies, groundwater seepage analysis, foundation design, retaining wall design, pavement design, subsurface drilling and monitoring well installation. NGE has performed a total of several thousand geotechnical engineering related projects since the company was formed in 2002.

C. Is your firm experienced in hydrology and hydraulics?

NO: While our firm has not performed any hydrology/hydraulics projects to date, our personnel have experience with former employers.

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| NAME & TITLE (Last, First, Middle Int.) | YEARS OF EXPERIENCE | | |
|---|---------------------------------|---|--|
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN EXPERIENCE: | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: |
| Nottingham, John, E. | 12 | 4 | 0 |

Brief Explanation of Responsibilities

Mr. Nottingham was responsible for supervising field and design work for numerous AML related landslide abatement projects for the WVDEP while under the employment of Triad Engineering, Inc. In addition to landslide abatement projects, Mr. Nottingham was involved in subsidence determination investigations and subsidence abatement projects. Mr. Nottingham worked extensively on "emergency" projects which required quick field investigations and corrective designs.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science in Civil Engineering, 1987, WVU, Specialization - Civil and Geotechnical Engineering
Masters of Science in Civil Engineering, 1995, WVU, Specialization - Geotechnical Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineering (ASCE)
West Virginia Chapter of AIA

REGISTRATION (Type, Year, State)

Professional Engineering, 1994, WV
Professional Engineering, 2007, VA
Professional Surveyor, 1996, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

| NAME & TITLE (Last, First, Middle Int.) | YEARS OF EXPERIENCE | | |
|---|---------------------------------|---|--|
| | YEARS OF AML DESIGN EXPERIENCE: | YEARS OF AML RELATED DESIGN EXPERIENCE: | YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: |
| Montgomery, Charles, E. | 10 | 4 | 0 |

Brief Explanation of Responsibilities

Mr. Montgomery was responsible for coordinating field activities for AML landslide abatement projects for the WVDEP while employed with Triad Engineering, Inc. Mr. Montgomery has also participated in all project phases for other AML work involving subsidence determinations/abatement and impounded mine pools.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science, Geology, 1991, Marshall University

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of Engineering Geologists
Geological Society of America

REGISTRATION (Type, Year, State)

Professional Geologist, 1999, Kentucky

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)

Nottingham, Larry C.

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:
15

YEARS OF AML RELATED DESIGN
EXPERIENCE: 5

YEARS OF DOMESTIC
WATERLINE DESIGN
EXPERIENCE: 0

Brief Explanation of Responsibilities

Dr. Nottingham planned and supervised several AML investigation and reclamation projects for WVDEP while employed by Triad Engineering. Projects included burning refuse pile investigations, unstable refuse pile investigations and remedial designs, landslide investigations and remedial designs, subsidence investigations, and underground mine fire investigations.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science in Civil Engineering, 1965, Civil Engineering, West Virginia Institute of Technology
Master of Science in Civil Engineering, 1966, Geotechnical Engineering, University of Pittsburgh
Doctor of Philosophy, 1975, Geotechnical Engineering, University of Florida

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Member, American Society of Civil Engineers
Member, National Society of Professional Engineers

REGISTRATION (Type, Year, State)

Professional Engineer, 1969, WV
Professional Engineer, 1985, KY
Professional Engineer, 1985, OH
Professional Engineer, 2006, PA

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)

YEARS OF EXPERIENCE

YEARS OF AML DESIGN EXPERIENCE:

YEARS OF AML RELATED DESIGN
EXPERIENCE:

YEARS OF DOMESTIC
WATERLINE DESIGN
EXPERIENCE:

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Four rotary track-mounted drill rigs. Drills are equipped with hollow stem augers, split-spoon soil sampling equipment, and rock coring tools.

Portable dynamic cone penetrometer.

Electric concrete coring drill.

Two rollback trucks, one road tractor with trailer and two equipment hauling trailers.

Software includes: Word processing, PCSTABL - Slope Stability Analysis, LPILE Plus 4.0 - Pile Foundation Analysis, PYWALL 2.0 - Retaining Wall Analysis, ReSSA 2.0 - Reinforced Soil Slope Analysis, ReSlope 3.0 - Reinforced Soil Slope Design

Soil Laboratory Equipment: Soil Oven, Scales, Sieves, Liquid and Plastic Limits Machine, Direct Shear Machine

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | NATURE OF YOUR FIRM'S RESPONSIBILITY | ESTIMATED CONSTRUCTION COST | PERCENT COMPLETE |
|--|--|--|--|------------------|
| Piney Knob Tower Slide, Geotechnical Investigation, Boone County, WV | Shentel, Edinburg, VA | Perform subsurface investigation, pile wall design and construction drawings. | \$360,000 | 100 |
| Annual Geotechnical Drilling Contract, West Virginia DOT | West Virginia Department of Transportation | Perform geotechnical (drilling) investigations as directed by WVDOT personnel. | Unknown | 70 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| TOTAL NUMBER OF PROJECTS: 2 | | | TOTAL ESTIMATED CONSTRUCTION COSTS: \$ Unknown | |

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

| PROJECT NAME, TYPE AND LOCATION | NATURE OF FIRMS RESPONSIBILITY | NAME AND ADDRESS OF OWNER | ESTIMATED COMPLETION DATE | ESTIMATED CONSTRUCTION COST | |
|---|--|---|------------------------------|-----------------------------|------------------------------|
| | | | | ENTIRE PROJECT | YOUR FIRMS RESPONSIBILITY |
| Isaac Creek Landslide, Geotechnical Investigations, Harrison Co, WV | Determine Site Subsurface Conditions, Provide Remediation Design Recommendations. | WV DEP AML | Current | Unknown | Fee \$30,000 |
| Cash Well Pad, Geotechnical Investigations, Wetzel Co, WV | Determine Site Subsurface Conditions, Provide Construction Recommendations | EQT | June, 2020 | Unknown | Fee ≈ \$64,000 |
| Doddridge Co Annex Geotechnical Investigations, Doddridge Co, WV | Geotechnical Investigation for New Building Structure | Doddridge Co, WV | May, 2020 | Unknown | Fee \$15,000 |
| Doddridge Co Pre-K Geotechnical Investigations, Doddridge Co, WV | Determine Site Subsurface Conditions, Provide Foundation Design Recommendations. | Doddridge Co BOE | August, 2020 | Unknown | Fee ≈ \$30,000 |
| Pineville Bridge, Geotechnical Investigation, Pineville, WV | Determine Site Subsurface Conditions, Provide Foundation Design Recommendations | West Virginia Dept. of Highways, Charleston, WV | May, 2020 | Unknown | Fee \$20,000 |
| I-64 Merriots Creek Design, Geotechnical Investigation, Cabell County, WV | Perform subsurface investigation, develop and provide recommendations for bridge foundations and roadway design | West Virginia Dept. of Highways, Charleston, WV | Current | Unknown | Fee ≈ \$340,000 |
| | | | | | |

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

[illegible]

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

| PROJECT NAME, TYPE AND LOCATION | NAME AND ADDRESS OF OWNER | ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION | YEAR | CONSTRUCTED (YES OR NO) | FIRM ASSOCIATED WITH |
|--|---|--|------|-------------------------|-----------------------------|
| Gerald R Freeman Bridge, Geotechnical Investigation, Braxton Co, WV | WV Department of Highways Charleston, WV | \$5,000,000 | 2019 | In Process | Mead and Hunt |
| Parkersburg Flood Wall and Levee, Geotechnical Investigation, Parkersburg, WV | City of Parkersburg | Unknown | 2019 | No | Mead and Hunt |
| Runway improvements Geotechnical Investigation, Wood County, WV | Mid-Ohio Valley Regional Airport | Unknown | 2019 | Yes | Michael Baker International |
| North Central WV Airport Development, Geotechnical Investigation, Bridgeport, WV | North Central WV Airport Bridgeport, WV | Unknown | 2020 | In Progress | The Thrasher Group |
| Water Tanks, Geotechnical Investigation, St. Albans, WV | WV American Water Charleston, WV | \$2,000,000 | 2017 | Yes | Chapman Technical Group |
| | | | | | |

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

20. The foregoing is a statement of facts.

Signature: John E. Nottingham

Title: President

Date: August 26, 2020

Printed Name: John E. Nottingham

NOTE: THIS DOCUMENT WILL BECOME VOID AFTER DECEMBER 31 IN CALENDAR YEAR OF DATE HEREON.

ATTACHMENT C

AML and RELATED PROJECT EXPERIENCE MATRIX

| PROJECT | Exp. Basis C=Corp. P=Personal | Additional Info Provided in Section (s) ** | PROJECT EXPERIENCE REQUIREMENTS | | | | | | | | | | | | | | | PRIMARY STAFF PARTICIPATION/CAPACITY M=Management P=Professional *** | | | | |
|---|-------------------------------------|---|---------------------------------------|------------------------------------|----------------------|--------------------------------------|---------------------|-------------------------------|--|--------------------------|------------------------|--|---------------------------------------|-----------------|--------------------------------|--------------------|------------------------|--|---------------------------------|--------------|----------------------|---------------------|
| | | | Abandoned Surface Mine Reclamation | Abandoned Deep Mine Reclamation | Portal/Shaft Closure | Hydrologic/Hydraulic Design/Eval. | Remining Evaluation | Mine/Refuse Fire Abatement | Subsidence Investigation Mitigation | Hazardous Waste Disposal | Project Specifications | Water Quality Evaluation/Mitigation/Repla cement | Construction Inspection/Management | Water Treatment | Equipment/Structure Removal | Stream Restoration | Geotechnical/Stability | Paul A. Horner, P.E., P.S. | Tom C. Corathers, P.E., P.S. | Elijah Meyer | John W. Horner, P.S. | Tom Childers (CADD) |
| Stanley Subsidence II AML Enhancement Project | C, P | | | X | X | | X | | X | | X | | | | | | | M, P | | | P | P |
| Century-Volga PSD Waterline Ext. for AML | C, P | | | | | X | | | | | X | X | X | | | | | M, P | | | P | P |
| UHC Replacement Hospital Site Design | C, P | Yes | | | | X | | | | | X | X | X | | | X | X | M, P | P | | P | P |
| Benedum Airport Runway Extension, Bridgeport, WV | C, P | Yes | | | | X | | | | | X | X | X | | X | X | X | P | P | | P | |
| Heritage Farms Subdivision, Bridgeport, WV | C, P | Yes | | | | X | | | | | X | X | | | | | | | M, P | | P | P |
| Army National Guard Fixed Wing Training Site, Harrison | C, P | Yes | | | | X | | | | | X | X | X | | | | X | P | P | | P | P |
| Fed Ex Ground Facility, Harrison County | C, P | Yes | | | | X | | | | | X | X | | | | | | M, P | | | P | P |
| Route 279 North Bridgeport Bypass, Harrison County | C, P | Yes | | | | X | | | | | X | | | | | | X | P | P | | P | P |
| Physician's Office Building Site on UHC New Campus | C, P | | | | | X | | | | | X | X | X | | | | X | M, P | P | | P | P |
| Bridgeport Public Safety Substation | C, P | | | | | X | | | | | X | | | | | | | | M, P | | P | P |
| Summit Park PSD Waterline Replacement Project (AML) | C, P | | | | | X | | | | | X | | X | | X | | | M, P | P | | P | P |
| G.A.L. Company Industrial Site Development | C, P | | | | | X | | | | | X | | X | | | | X | P | M, P | | P | P |
| Lakeside Place Apartments | C, P | Yes | | | | X | | | | | X | | | | | | | M | P | P | P | |
| Timberbrook Apartments | C, P | Yes | | | | X | | | | | X | | | | | | | M | P | P | P | |
| R.G. Motorsports | C, P | Yes | | | | X | | | | | X | | | | | | | M | P | P | P | |
| GAL Land Industrial Site | C, P | Yes | | | | X | | | | | X | | | | | | | M | M, P | | P | |
| Numerous (100±) Gas Well Site Developments | C, P | Yes | | | | X | | | | | X | X | | | | | X | M, P | P | P | | P |

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.

Attachment "C"

ATTACHMENT C
ABANDONED MINE LANDS (AML)
CONTRACTOR INFORMATION FORM

Attachment "C"

34

OMB # 1029-0119
Expiration Date: 10/31/2021

ABANDONED MINE LANDS (AML) CONTRACTOR INFORMATION FORM

You must complete this form for your AML contracting officer to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement (OSMRE) to determine if you are eligible to receive an AML contract. This requirement applies to contractors and their sub-contractors and can be found under OSMRE's regulations at 30 CFR 874.16. NOTE: This form must be signed and dated within 30 days of submission to be considered for a current bid.

Part A: General Information

Business Name: Horner Brothers Engineers
Tax ID #: 55-0197150
Address: P.O. Box 386
City, State, & Zip: Clarksburg, WV 26302-0386
Phone Number: 304-62406445
Email Address: Trey@hbc1902.com

Part B: Obtain an Organizational Family Tree (OFT) from the Applicant Violator System (AVS)

If you plan to certify the existing AVS information or submit updates under Part C, you must include an OFT. To obtain an OFT, you may contact the AVS Office at 800-643-9748 or from the AVS website at: <https://avss.osmre.gov/>. Instructions for how to download an OFT from the AVS can be found at: <https://www.osmre.gov/programs/AVS/aml-instructions.pdf>.

Part C: Certifying and updating information in the AVS

Select only one of the following options, follow the instructions for that option, and sign and date below.

I, PAUL A. HORNER III, have express authority to certify that:
(Print Name)

- ☒ 1. Our business is in the AVS and is accurate, complete, and up-to-date. If you select this option, you must attach an Entity OFT from the AVS to this form. Do not complete Part D.
- ☐ 2. Our business is in the AVS but needs to be updated. If you select this option you must attach an Entity OFT from the AVS to this form. Use Part D to provide the missing or corrected information.
- ☒ 3. Our business is not in the AVS and needs to be added. Complete Part D.

8-27-20
Date

Paul A. Horner III
Signature

PRESIDENT
Title

Part D: OFT InformationContractor's Business Name: HORNER BROTHERS ENGINEERS

If the current Entity OFT information for your business is incomplete in the AVS, or if there is no information in the AVS for your business, you must provide all of the following information as it applies to your business. Please include additional copies of this page if the space below is not sufficient to capture all information.

- Every officer (President, Vice President, Secretary, Treasurer, etc.);
- All Directors, Partners, and Members;
- All persons performing a function similar to a Director;
- Every person or business that owns 10% or more of the voting stock in your business;
- Any other person(s) who has the ability to determine the manner in which the AML reclamation project is being conducted.
- Please list an end date for any person no longer with your business.

Name: Paul A. Horner III
 Address: P.O. Box 386, Clarksburg, WV 26302
 Begin Date: 4/11/1985
 End Date: N/A
 % Ownership: 20%
 Position/Title: President
 Phone Number: 304-624-6445

Name: Cheri Hershman
 Address: P.O. Box 386, Clarksburg, WV 26302
 Begin Date: 9/11/2013
 End Date: N/A
 % Ownership: 0
 Position/Title: Sec/Treas
 Phone Number: 304-624-6445

Name: John W. Horner
 Address: P.O. Box 386, Clarksburg, WV 26302
 Begin Date: 3/10/1992
 End Date: N/A
 % Ownership: 5%
 Position/Title: Vice President
 Phone Number: 304-624-6445

Name: Marshall W. Robinson
 Address: 237 Birch River Rd., Birch River, WV 26610
 Begin Date: N/A
 End Date: N/A
 % Ownership: 75%
 Position/Title: Shareholder
 Phone Number: 304-649-8606

PAPERWORK REDUCTION STATEMENT

The Paperwork Reduction Act of 1995 (44 U.S.C 3501) requires us to inform you that: Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a current valid OMB control number. This information is necessary for all successful bidders prior to the distribution of AML funds, and is required to obtain a benefit.

Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Office of Surface Mining Reclamation and Enforcement, 1849 C Street, NW, Room 4559, Washington, DC 20240.

**DISCLOSURE OF INTERESTED
PARTY TO CONTRACT
&
PURCHASING AFFIDAVIT**

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

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

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

Contract Number: _____ Contract Description: SARDIS (SAAS) LANDSLIDE

Governmental agency awarding contract: WVDEP - AML

☐ 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.

NGE (NOVEL GEO-ENVIRONMENTAL, LLC)

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: AUG 27, 2020

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 27th day of AUGUST, 2020

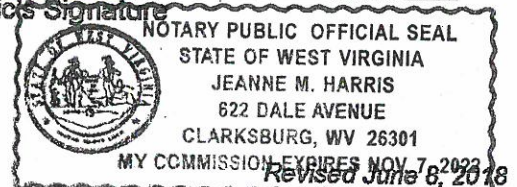
Jeanne M. Harris
 Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



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 §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: HORNER BROTHERS ENGINEERS

Authorized Signature: Philip A. Horn III

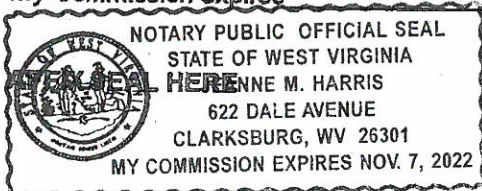
Date: AUG 27, 2020

State of WEST VIRGINIA

County of HARRISON, to-wit:

Taken, subscribed, and sworn to before me this 27 day of August, 2020

My Commission expires _____, 20____.



NOTARY PUBLIC

Jeanne M. Harris

Purchasing Affidavit (Revised 01/19/2018)

COMPANY INFORMATION

HORNOR *Since 1902* **BROTHERS** **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 • www.HornorBrosEng.com

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



EXPRESSION OF INTEREST

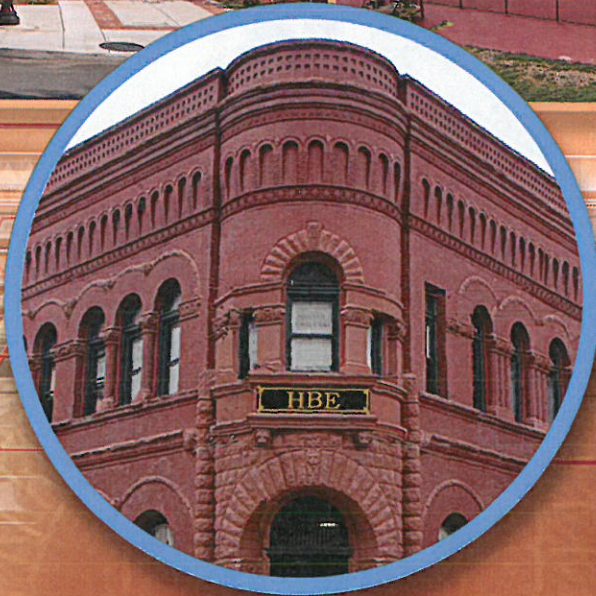
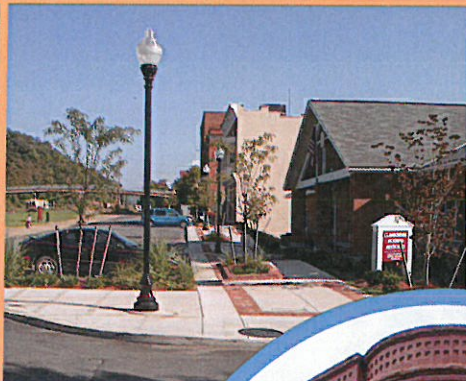
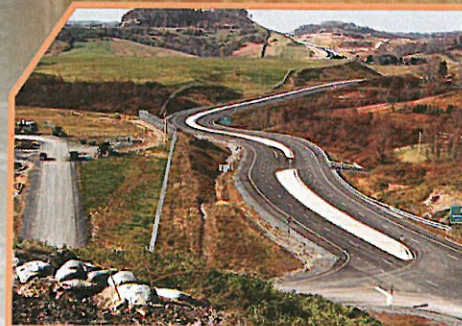
West Virginia DEP

Sardis (Saas) Landslide Project Harrison County, WV
CEOI 0313 DEP21000000001

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

HORNOR BROTHERS ENGINEERS

**Main and Third Streets
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140 South Third Street
Clarksburg, West Virginia 26302**

Phone: 304/624-6445
Fax: 304/624-6448
Website: www.HBE1902.com
EMAIL: Trey@HBE1902.com

Professional Engineering Services Since 1902

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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 management of 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 | Truck Turn Analysis |

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.

MUNICIPAL PROJECTS

Hornor Brothers Engineers has performed a wide range of municipal services including the design and construction phase services for small dams and reservoirs, tennis courts, city streets, conventional sidewalks, drainage systems, and all the project components associated with downtown streetscape improvements. The firm has also prepared multiple parking lot project designs, for United Hospital Center, Fairmont State College, and the City of Clarksburg among others.

Our history of successive projects with Fairmont State College, the United Hospital Center, and the cities of Clarksburg and Bridgeport and others is a reflection of our quality of performance in this area of development.

SITE DEVELOPMENT

Hornor Brothers Engineers also provides complete engineering services for the development of industrial parks and residential subdivisions. Our services include staking out the lots and designing the earth moving, streets, sidewalks, drainage systems, and water and sewer systems for the industrial or residential client. Hornor Brothers Engineers has been involved in the development of numerous industrial parks and subdivisions around north-central West Virginia. Sometimes this requires the complete turnkey services described above, and in other cases just the layout of lots or the design of water and wastewater systems. A listing of representative site development projects includes the following:

| Industrial/Commercial Site Projects | County |
|--|---------------|
| UHC New Hospital Site | Harrison |
| Fed Ex Site | Harrison |
| Harrison-Marion Regional Airport | Harrison |
| Benedum Airport Industrial Park | Harrison |
| Midway Industrial Park | Harrison |
| Lewis County Industrial Park | Lewis |
| Bridgeport Public Safety Facility | Harrison |
| G.A.L. Land (various sites) | Harrison |

| Subdivision Projects | County |
|-----------------------------|---------------|
| Heritage Farms | Harrison |
| Deerbrook | Barbour |
| Bennett Manor | Harrison |
| Auburn Village | Harrison |
| Heavenly Trails | Marion |
| Timber Ridge | Marion |

On the following pages, see representative photographs and descriptions for several of the firm's various site development projects.

**FED EX GROUND DISTRIBUTION FACILITY
HARRISON COUNTY, WEST VIRGINIA**



HERITAGE FARMS RESIDENTIAL DEVELOPMENT



**FRANKLIN ELEMENTARY SCHOOL
FRANKLIN, WEST VIRGINIA
2013-2015**

Honor Brothers Engineers was part of the consultant team retained by the Pendleton County Board of Education to evaluate site selection and develop the project criteria for one of the first design-build new schools in West Virginia. Our role focused on the site criteria development portion of the project, including NPDES permitting.



**Left: Undisturbed six
(6) acre project site**



**Below: Finished
school and site**

**UHC REPLACEMENT HOSPITAL SITE DEVELOPMENT
BRIDGEPORT, WEST VIRGINIA
2006 – 2010**

In 2002, Hornor Brothers Engineers teamed with Gresham, Smith & Partners of Nashville, Tennessee to serve as the civil design firm for the new United Hospital Center. This project started construction in 2006 and the facility is slated to open in 2010.

Hornor Brothers Engineers was responsible for the initial surveys, preparation of the site plans, design of 2.1 million cubic yard engineered embankment and excavation, temporary and permanent erosion, sediment and storm water management systems, site infrastructure, consisting of paved roadways, paved parking, storm drainage, water distribution system and sanitary sewer system. The civil site development also included sidewalks and several decorative block retaining walls. Pictures of the site work in various stages can be seen on the following pages.

**EMBANKMENT CONSTRUCTION PHASE
FALL 2007**



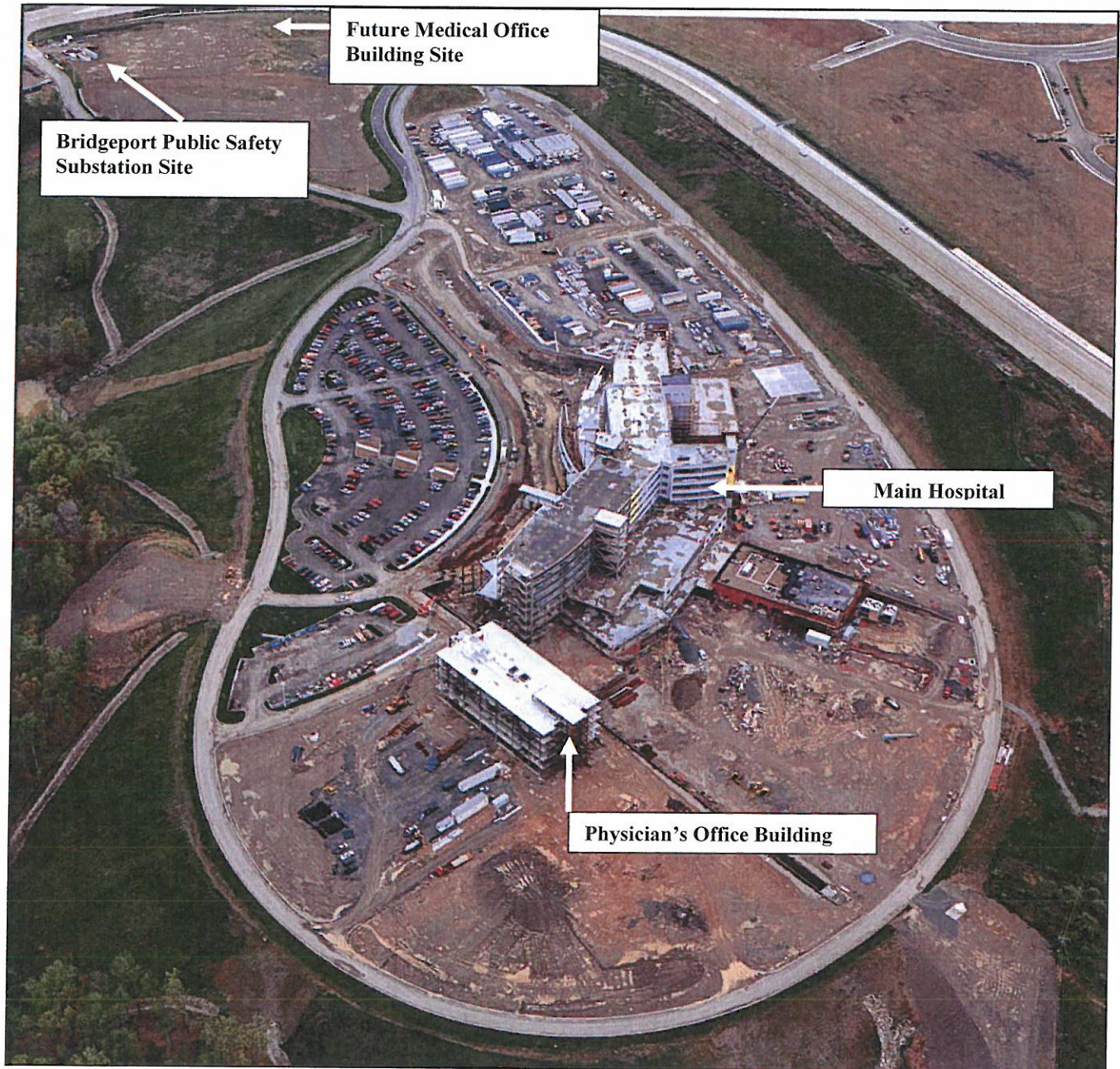
**INFRASTRUCTURE PHASE
SUMMER 2008**



**EAST/WEST VIEW
SPRING 2009**



**NORTH-SOUTH VIEW
SPRING 2009**



JANUARY 2010



OCTOBER 2010



LAKESIDE PLACE APARTMENTS

Hornor Brothers Engineers performed the civil site design for the development of an upscale apartment complex near Hinkle Lake just south of Bridgeport, WV. There are two buildings with eight apartments in each. HBE's services included mapping of the property and all related surveying and construction stakeout. Design services included the coordination of geotechnical investigations, earthwork, highway access and roadways, parking, drainage, permitting, and water and sanitary sewer utility extensions.



View Looking North



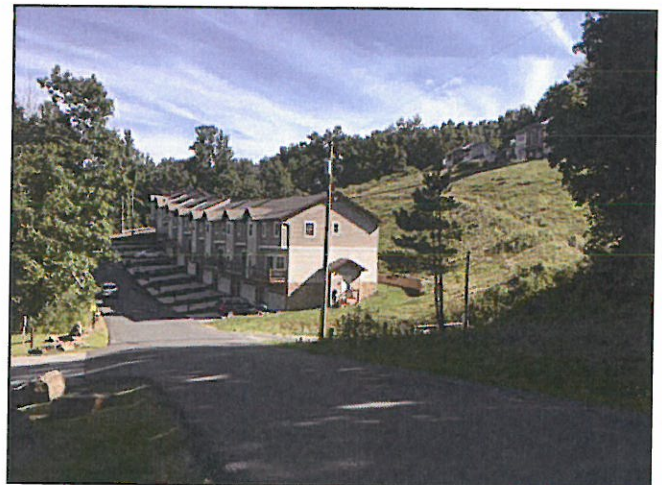
View Looking South

TIMBERBROOK APARTMENTS

Located near Deegan Lake near Bridgeport, WV, the Timberbrook Apartment Complex features ten apartments with lake views. Hornor Brothers Engineers' services for the developer included coordination with the building architect, mapping of the property and all related surveying and construction stakeout. Design services included various conceptual plans, earthwork, permitting, access, drainage, and water and sanitary sewer extensions.



Initial Site Development



Finished Apartment Site

R.G. MOTORSPORTS

Hornor Brothers Engineers worked with the owner of R.G. Motorsports, who desired to enlarge and relocate his business closer to I-79 near Bridgeport, WV. HBE performed all of the mapping and related surveying, as well as the conceptual site design, sanitary sewer service with lift station, and water distribution system.



Site and Building Near Completion

GAL LAND INDUSTRIAL SITE



Hornor Brothers Engineers performed the civil site design for the development of an industrial park located near the intersections of U.S. Route 50 and Route 76 east of the City of Bridgeport, WV. Our services included mapping of the property and all related surveying, the design of three building pads ranging in size from four to seven acres each, access and connecting roadways, drainage, stormwater management, water and sanitary sewer utility extensions and construction stakeout.

Aerial Image of Industrial Park with Developed Building Pads Bounded by U.S. Route 50 to the North and Route 76 to the East. Stormwater Management Ponds Shown on the West Side

INDUSTRIAL GAS WELL SITE DEVELOPMENT

Hornor Brothers Engineers prepares civil engineering design and construction documents associated with the development of Marcellus shale well sites. These services include the design of access roads, impoundments, drill pads, associated drainage facilities and erosion and sediment control features. Well site designs are performed in accordance with state requirements, and impoundments and pits are certified by a professional engineer, following field inspection(s), who reviewed and approved the design documents.

The firm also provides periodic on-site project representation during construction to monitor the work as it relates to the design drawings, as well as site surveying services and courthouse deed research. Clients in this area of industrial site development include EQT, Antero Resources and PDC Mountaineer. The following photographs reflect different representative sites at various stages of development.



**Frac Pit Site Preparation,
Ritchie County, WV**



**Lined Frac Pit and Drill Pad
Site, Ritchie County, WV**



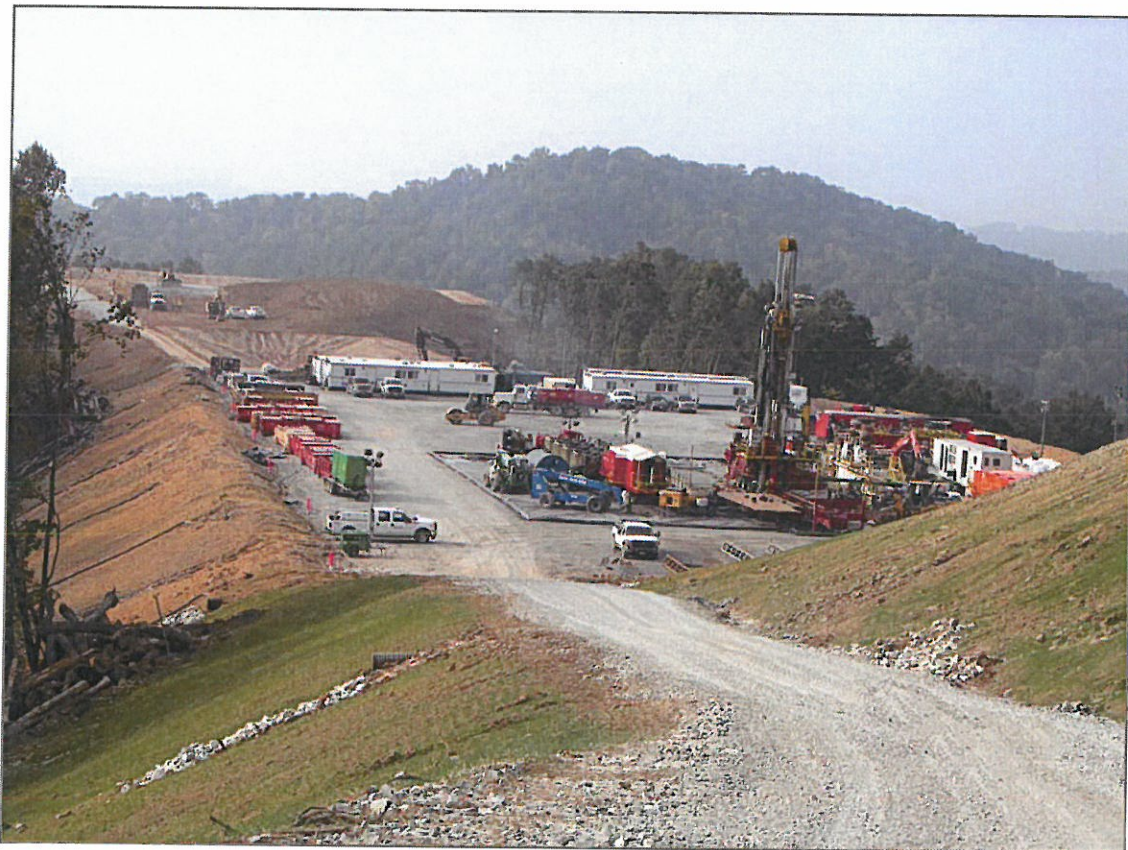
Drill Pad Site in Doddridge County, WV



Embankment Fill Keyway for Impoundment Site in Doddridge County, WV



New Access Road to Well Site in Doddridge County, WV



Access Road and Operating Drill Pad in Wetzel County

NORTH CENTRAL WEST VIRGINIA AIRPORT - BRIDGEPORT, WEST VIRGINIA

Hornor Brothers Engineers has a rich and long history of over 65 years with the North Central West Virginia Airport, which began as the Harrison County Airport in 1937. As the airport changed over the years, Hornor Brothers Engineers was the firm predominantly responsible for the improvements and additions to the facility. The years of 1960-1975 were the main development years for the airport. During this period of time there were nine major construction projects. From 1977 to 1995 there were 15 smaller projects, all funded primarily by the Federal Aviation Administration.

In 1993, Benedum Airport Authority embarked on a large and ambitious project to extend its main runway and parallel taxiway. Major design components of the project included a 10,000,000 cubic yard excavation and embankment; a 2,500 foot long, 72-inch structural steel culvert; runway and taxiway pavement and lighting; repaving the existing runway; fencing; utility line relocations; storm drainage system and a new instrument landing system.

The Benedum Airport Authority also hired Hornor Brothers Engineers to provide engineering design, inspection and construction management services for the construction of a 4,400 foot long (0.833 miles) access highway. This section of highway is known as Route 279, North Bridgeport Bypass.

Also, the West Virginia Army National Guard (ARNG) hired Hornor Brothers Engineers to provide all phases of engineering design and inspection for the construction of the Eastern ARNG Aviation Training Site Fixed Wing Detachment at Benedum Airport. This facility consisted of a 37,200 sq. ft. training facility hangar with classroom, administrative and aircraft maintenance space, flexible and rigid paving for aircraft parking, new taxiway access to the main runway and the existing Tee Hangars, all supporting utilities, drainage structures and new access highway from U.S. Route 50. Following are pictures of the above referenced projects.

BENEDUM AIRPORT VARIOUS PROJECTS

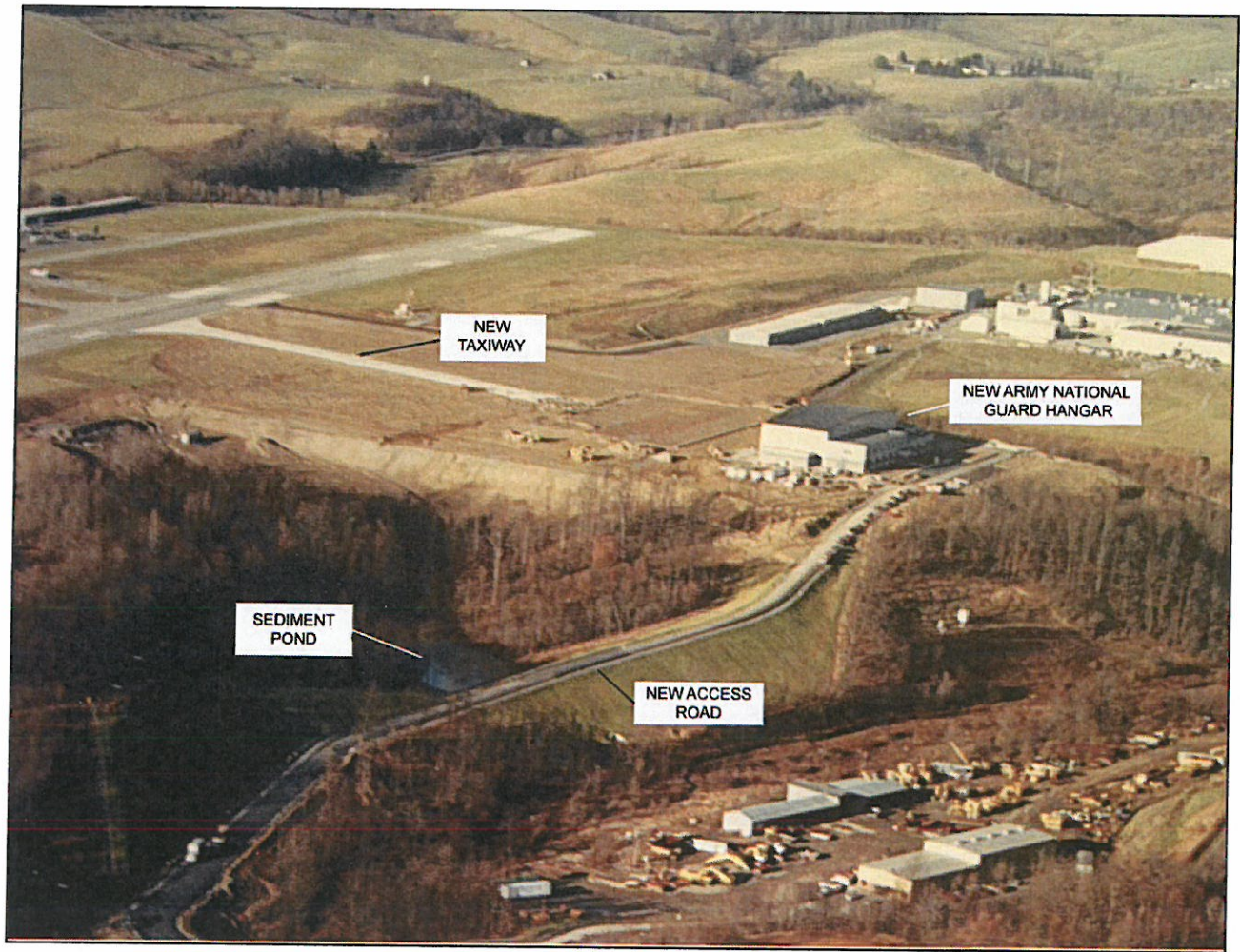




BENEDUM AIRPORT RUNWAY EXTENSION PROJECT



ROUTE 279, NORTH BRIDGEPORT BYPASS



EASTERN ARNG FIXED WING TRAINING SITE AT BENEDUM AIRPORT

SLIP REMEDIATION AND RELATED PROJECTS

Hornor Brothers Engineers is frequently called upon for the design of remedial site work or restoration, and related minor development. Typical design and construction elements can include pavement and sub-base repair, excavation and embankment, pile and lagging walls, subsurface drainage systems, surface drainage systems, erosion and sediment control, and landscaping.

The following are brief descriptions of several completed projects for which Hornor Brothers Engineers provided design only or both design and construction phase engineering services.

| 1. Project Name | Location | Owner | Contact Person | Cost |
|--|---------------------------------|-------------------------------------|--|---------------|
| Retaining Wall and Repairs Along Randolph Street | Salem Harrison County, WV | City of Salem 229 W. Main Street | City of Salem James Plaughter, Former Mayor 229 W. Main Street Salem, WV 26426 | \$ 146,982.00 |
| Project Description: This project was designed to remediate a slide area between Randolph Street and Salem Fork creek. The design involved steel H piles, concrete lagging, repairs and the widening of Randolph Street pavement. Piles were driven to solid rock and concrete lagging was installed to stabilize the slide area. | | | | |

| 2. Project Name | Location | Owner | Contact Person | Cost |
|---|--------------------------------------|--|--|---------------|
| United Hospital Center Retaining Wall and Widening of Emergency Room Access Road | Clarksburg Harrison County, WV | UHC 327 Medical Park Drive Bridgeport, WV | Geoff Marshall, V.P. Engineering Support Services (681) 342-1220 | \$ 166,590.00 |
| Project Description: This project was designed in order to widen the emergency room access road at the United Hospital Center campus. The design involved 90 lf of drilled and grouted piles with concrete lagging, wales, controlled fill, catch basin, drainage pipe, guardrails and safety fencing. | | | | |

| 3. Project Name | Location | Owner | Contact Person | Cost |
|---|---|--|--|---|
| City of Clarksburg Pile and Lagging Wall at 4 th Street | Glen Elk Section of Clarksburg Harrison County, WV | City of Clarksburg 222 W. Main Street Clarksburg, WV | Anthony Bellotte, Director of Public Works (304) 624-1681 | Unknown. This was part of a larger project. |
| Project Description: As part of Clarksburg's Phase III streetscape project, a driven pile and concrete lagging wall was designed to support a section of sidewalk along Clark Street and to prevent the failure of a portion of Hogan Alley at the intersection of Hogan Alley and Clark Street in the Glen Elk section of Clarksburg. | | | | |

| 4. Project Name | Location | Owner | Contact Person | Cost |
|---|---|---|------------------------------|---------------|
| Davis Funeral Home Slip Remediation Measures | Near WV Route 98 Between Clarksburg & Nutter Fort Harrison County, WV | Davis Funeral Home 1 Olen Thomas Dr. Clarksburg, WV | Randy Amos (304) 622-0270 | \$ 110,000.00 |
| Project Description: Hornor Brothers designed remedial measures to correct an embankment slip. These corrective measures included rock stabilization along the toe of the slip area, dump rock ditches, French drains and underdrains, repair of existing asphalt pavement and resetting existing preformed curb and gutter. | | | | |

| 5. Project Name | Location | Owner | Contact Person | Cost |
|---|--------------------------------------|--|---|---------------|
| United Hospital Center Embankment Project | Clarksburg Harrison County, WV | UHC 327 Medical Park Drive Bridgeport, WV | Geoff Marshall, V.P. Engineering Support Services (681) 342-1220 | \$ 108,000.00 |
| Project Description: This project was designed in order to restore an old borrow site to the original contour. The design involved approximately 4600 cubic yards of controlled fill, associated underdrains to alleviate groundwater problems and rock stabilization. Surface erosion concerns were addressed by utilizing vegetative cover (grass), trees and biodegradable matting. | | | | |

| 6. Project Name | Location | Owner | Contact Person | Cost |
|--|--------------------------------------|--|---|---------------|
| Ascension Street and Magnolia Avenue Slip Remediation Projects | Clarksburg Harrison County, WV | City of Clarksburg 222 W. Main Street Clarksburg, WV | Martin Howe, Former City Manager (304) 669-6554 | \$ 510,000.00 |
| Project Description: This project addressed two (2) slip areas adjacent to city streets in different areas of Clarksburg. The Ascension Street area required approximately 140 LF of steel pile and concrete lagging wall. The solution for the Magnolia Avenue slip was the design of a segmental block wall to stabilize the slip and slope above the street. | | | | |

See the following pages for photographs of various slip repair and wall design projects:

**City of Clarksburg
Ascension Street
Roadway Slip Repairs**

Description of Problem:
Design to correct and repair
a large slip which affected
the entire area between
Ascension Street and Ohio
Avenue.



Description of Work:
Pile and concrete lagging
retaining wall which
supports Ascension Street;
reggraded slope with proper
drainage between Ascension
Street and Ohio Avenue.



**City of Clarksburg
Magnolia Avenue
Roadway Slip Repairs**

Description of Work:

Modular concrete gravity retaining wall and safety fencing correcting the slip between Milford Street and Magnolia Avenue.



**City of Salem
Randolph Street
Slip Repair**

Description of Work:
Steel pile and concrete
lagging construction to
correct a slip which had
damaged much of
Randolph Street



REFERENCES

REFERENCES

WATER SYSTEM DEVELOPMENT

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