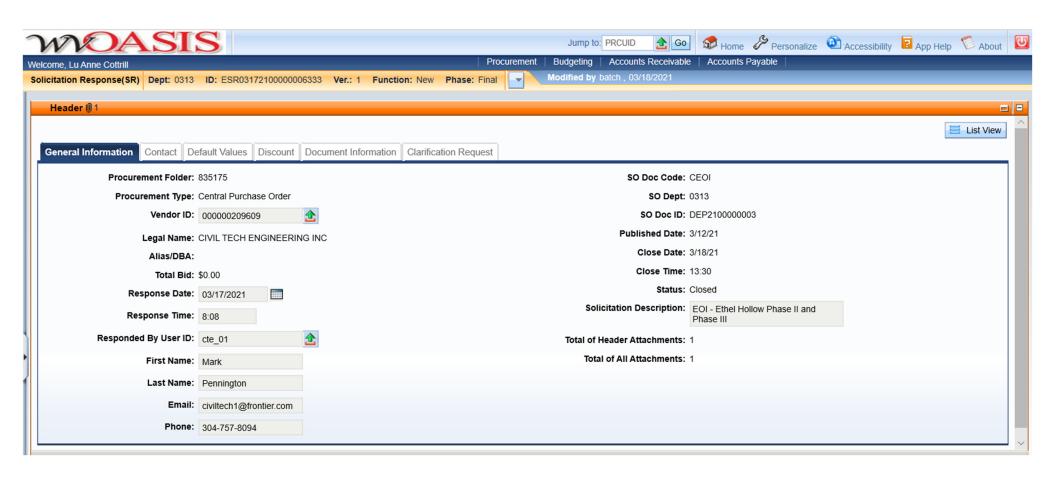


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

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





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

State of West Virginia **Solicitation Response**

Proc Folder: 835175

Solicitation Description: EOI - Ethel Hollow Phase II and Phase III

Proc Type: Central Purchase Order

Solicitation Closes Solicitation Response Version 2021-03-18 13:30 SR 0313 ESR03172100000006333 1

VENDOR

000000209609

CIVIL TECH ENGINEERING INC

Solicitation Number: CEOI 0313 DEP2100000003

Total Bid: 0 **Response Date:** Response Time: 2021-03-17 08:08:06

Comments:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III (304) 558-2306 joseph.e.hageriii@wv.gov

Vendor FEIN# DATE Signature X

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

FORM ID: WV-PRC-SR-001 2020/05 Date Printed: Mar 18, 2021 Page: 1

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Engineering Design Services				0.00

Comm Code	Manufacturer	Specification	Model #	
81100000				

Commodity Line Comments: Expression of Interest Only - No bid cost provided. Fee will be negotiated with successful firm.

Extended Description:

*Dates of Service are estimated for bidding purposes only.

 Date Printed:
 Mar 18, 2021
 Page: 2
 FORM ID: WV-PRC-SR-001 2020/05

DEP2100000003 EXPRESSION OF INTEREST TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR ETHEL HOLLOW PHASE II AND III

SUBMITTED TO: WVDEP – OFFICE OF AML & R

SUBMITTED BY: CIVIL TECH ENGINEERING INC. 300A PRESTIGE DRIVE HURRICANE, WV 25526

> Phone: 304-757-8094 Fax: 304-757-8095 civiltech1@frontier.com

> > **MARCH 18, 2021**

PHOTO: SUNRISE SANITATION MINE DRAIN

CIVIL TECH ENGINEERING, INC.

300A Prestige Drive Hurricane, West Virginia 25526 Phone: 304-757-8094 Fax: 304-757-8095 civiltech1@frontier.com

March 18, 2021

Department of Administration Purchasing Division 2019 Washington Street East P.O. Box 50130 Charleston, West Virginia 25305-0130

Subject: Expression of Interest for DEP21*03

Ethel Hollow Phase II and III, Logan County, WV

To Whom it May Concern:

CIVIL TECH ENGINEERING INC. is pleased to present this EOI for the subject Project. This EOI has been prepared to illustrate our recent and pertinent experience with AML and civil design projects. Important and pertinent AML experience is summarized below:

- □ 50 + years of combined experience with AML projects.
- ☐ 25 AML projects completed since 2008.
- ☐ All projects completed on time and within budget.

Our firm and principals have been responsible for remediation of all types of AML projects including portals, AMD, landslides, drainage and erosion, subsidence, refuse, mine spoil, highwalls, burning refuse and mine fires throughout West Virginia. Most recent experience includes:

- Lake (Bell) Portals, Logan County, WV
- Pine Bluff (Wilson) Refuse, Harrison County, WV
- Chaffey Run, Tucker County, Davis, WV

<u>Me believe our past and recent experience makes our company uniquely qualified for AML design projects.</u> We look forward to meeting with the selection committee to discuss the project and our qualifications.

Very truly yours,

CIVIL TECH ENGINEERING INC.

Mark E. Pennington MS, PE Principal Engineer

CIVIL TECH ENGINEERING, INC. 300A Prestige Drive Hurricane, West Virginia 25526 Phone: 304-757-8094 Fax: 304-757-8095 civiltech1@frontier.com

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	Page No.s
Section A – AML Experience Project Photographs Sample Drawings	1A-4A
Section B.1 History of Firm Office, Staff, and Equipment Resumes	1B.1-2B.1
Section B.2 – Civil Design Project Photographs Sample Drawings	1B.2-2B.2
Section B.3 – Dam Safety Project Photographs Sample Drawings	1B.3-3B.3
Section B.4 – Geotechnical/Surveying Project Photographs	1B.4-2B.4



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

State of West Virginia **Centralized Expression of Interest** Architect/Engr

Proc Folder:

835175

Doc Description: EOI - Ethel Hollow Phase II and Phase III

Reason for Modification:

Addendum #1 issued to publish agency responses to vendor

questions.

Proc Type:

Central Purchase Order

Date Issued

Solicitation Closes

Solicitation No.

Version

2021-03-12

2021-03-18 13:30

CEOL 0313

DEP2100000003

2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

VENDOR

Vendor Customer Code: WVOASIS Vender #000000209609

Vendor Name: Civil Tech Engineering Inc.

Address:

300A

Street:

Prestige Drive

City:

Hurricane

State:

WV

Country: USA

Zip: 25526

Principal Contact:

Vendor Contact Phone: 304-757-8094

Extension:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III (304) 558-2306

joseph.e.hageriii@wv.gov

Vendor Signature X

FEIN# 55-0757403

March 18, 2021 DATE

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

Date Printed: Mar 12, 2021

Page: 1

FORM ID: WV-PRC-CEOI-002 2020/05

ADDITIONAL INFORMATION

Addendum

Addendum #1 issued to distribute the attached documentation to the vendor community.

The Acquisitions and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) ("Agency"), from qualified firms to provide architectural/engineering services

The mission or purpose of the project for which bids are being solicited is to provide the following design services for the Ethel Hollow Phase II and Phase III projects ("Project").

- .Perform site investigation.
- .Design access for construction and future maintenance access.
- .Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off site. .Refuse reclamation.
- .Condition and revegetate all disturbed areas.

Per the bid requirements, specifications and terms and conditions attached hereto.

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

Comm Code	Manufacturer	Specification	Model #	
81100000				

Extended Description:

SCHEDULE OF EVENTS

Line Event

Event Date

^{*}Dates of Service are estimated for bidding purposes only.

SOLICITATION NUMBER: CEOI 0310 DEP21000000003 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.

I)	Modify bid opening date and time
I	l	Modify specifications of product or service being sought
[•	1	Attachment of vendor questions and responses
[1	Attachment of pre-bid sign-in sheet
[l	Correction of error
ſ	Ĭ	Other

Description of Modification to Solicitation:

Applicable Addendum Category:

Addendum issued to publish and distribute the information listed below.

1. Agency responses to all vendor submitted questions and attached site pictures.

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

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CEOI DEP21*03

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)

	x]	Addendum No. 1	[]	Addendum No. 6
[]	Addendum No. 2	[]	Addendum No. 7
[]	Addendum No. 3	[]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
[]	Addendum No. 5]]	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.

Civil Tech Engineering Inc.

Company

Authorized Signature

March 18, 2021

Date

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

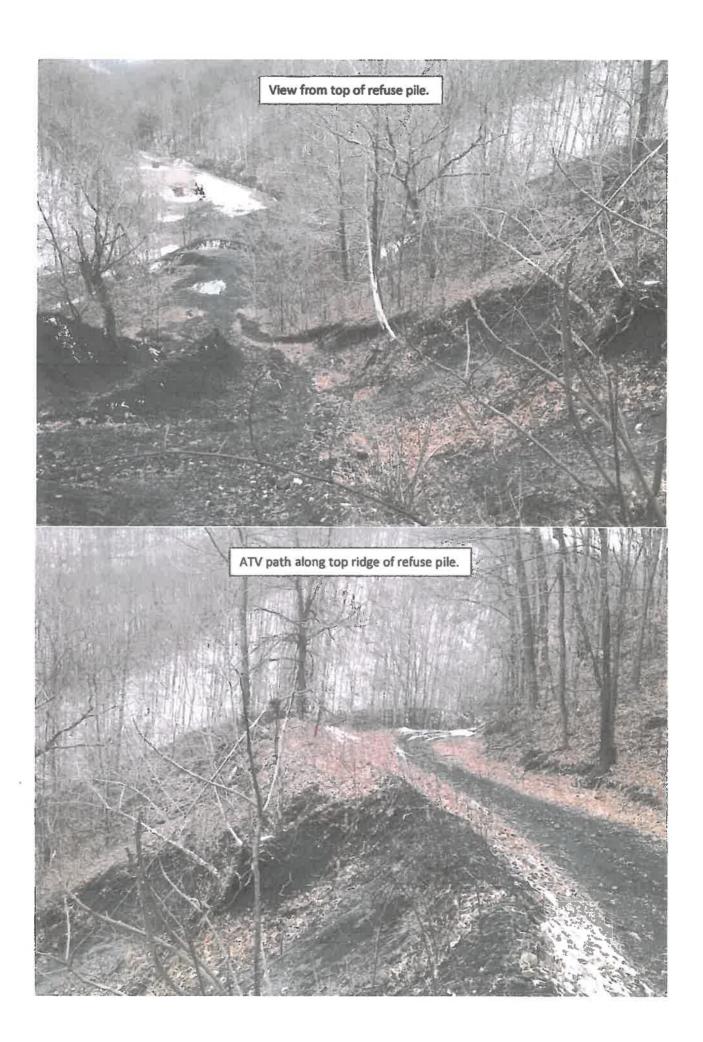
Revised 6/8/2012

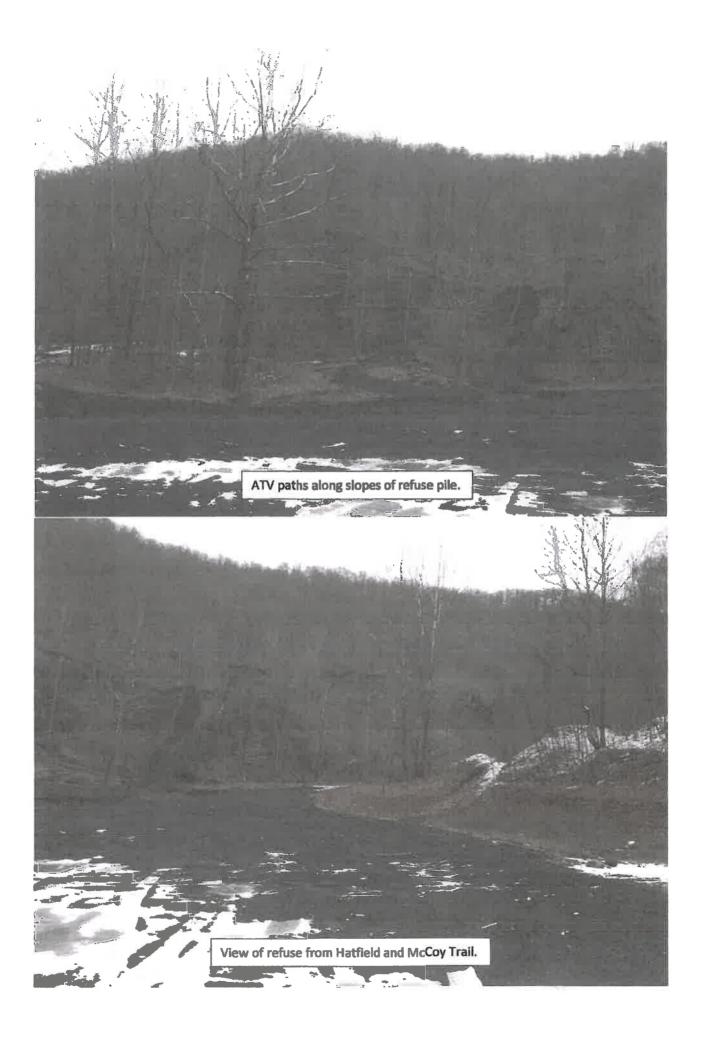
CEOI DEP 21*03 Ethel Hollow Phase II and Phase III Vendor Ouestions w/Response

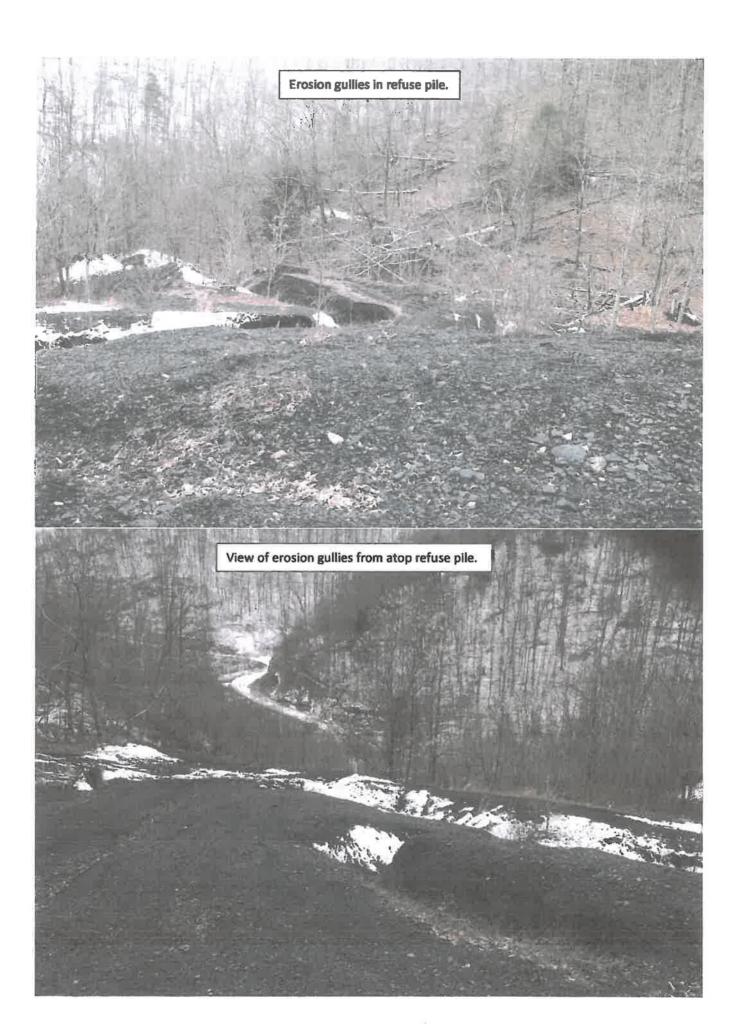
- Q.1. Are you able to share with us who did the Phase I work and if so, when it was completed and what were their findings?
- A. Phase I is a mine portals reclamation project currently in the design phase by AML staff.
- Q.2. What type of refuse is on the sites?
- A. Coal refuse is on both sites.
- **Q.3.** What is the size of each area?
- A. The Phase II area is approximately 4 acres and the Phase III area is approximately 5 acres.
- Q.4. Are there any specific plans for the reuse of the sites?
- A. No, there are no specific plans for the reuse of the sites.
- Q.5. Are there any water/wetland features adjacent to the sites that may be impacted?
- **A.** Yes, there are some water features that will be impacted and require a permit from the ACOE which will be the responsibility of the A/E firm and will be incorporated into the agreement.
- Q.6. Do you have any images of the sites (other than the Aerial Project Map) that you are able to share?
- A. Yes, images are attached.
- Q.7. Is the property accessible to allow for a site visit prior to submitting the EOI response in order to aid in the development of the proposed methods of approach? Is the A/E firm allowed to visit the site prior to submittal?
- A. Yes, the sites are accessible, and the A/E firm is allowed to visit the site prior to submittal.
 - Directions to Site: From Charleston, WV: Take US 119 S approximately 52 miles to Logan Exit (Rt. 73). Turn left onto Rt. 73 and travel approximately 2.5 miles to intersection with WV Rt. 10 & WV Rt. 44. Take left at intersection onto WV 10 and travel approximately 3 miles to

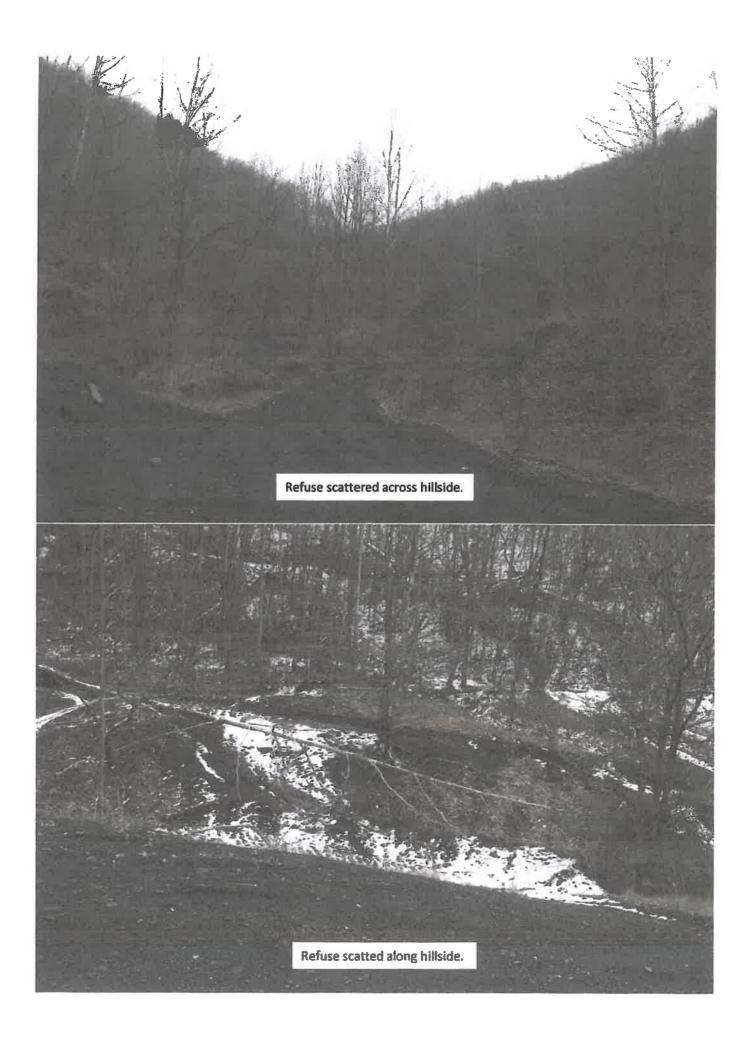
Stollings. Make a left at traffic light and go beneath underpass onto WV Rt. 17 and travel approximately 5 miles to Ethel Hollow Rd on left. Wide meeting spot approximately 100 yards up the hollow on the right.

- **Q.8.** Does AML have existing survey and/or mapping of the site or will that need to be obtained by the A/E firm that is awarded the project?
- A. AML will provide mapping.
- Q.9. Does the reclamation design and earth disturbance associated with the project need to stay within the NEPA Boundary as shown on the Aerial Project Map provided in the EOI documents?
- A. It is preferable to stay within the limits. AML staff will be responsible to adjust the boundaries if necessary.
- Q.10. For the Fixed Period Contract under Section five: Terms and Conditions, Section 3 states, "This contract becomes effective upon Vendor's receipt of the notices to process and must be completed with One thousand ninety five (1,095) calendar days." Does this mean the project needs designed and construction completed within that time frame or is this purely the design time frame? If this time frame includes both design and construction, is there a targeted design and permit submittal time frame?
- **A.** 1,095 calendar days is standard language. These projects are scheduled for construction to begin in Spring 2022. Final plans and permits should be complete around the beginning of 2022. The dates and timelines will be incorporated into the agreement.
- Q.11. Will the A/E firm that is awarded the project be required to provide construction stakeout and as-built survey?
- A. No, the Contractor will be responsible for stakeout and as-builts.
- Q.12. Does the A/E firm that is awarded the project need to provide Construction Quality Assurance (CQA) services or will the contractor be required to provide CQA on the project?
- A. No, the A/E firm will not need to provide CQA services.











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

State of West Virginia Centralized Expression of Interest Architect/Engr

Proc Folder: 835175 Reason for Modification: Doc Description: EOI - Ethel Hollow Phase II and Phase III Proc Type: Central Purchase Order Date Issued Solicitation Closes **Solicitation No** Version 2021-02-17 2021-03-18 13:30 CEOL 0313 DEP2100000003

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON WV 25305

US

VENDOR

Vendor Customer Code: wvOASIS vendor #000000209609

Vendor Name: CIVIL TECH ENGINEERING INC.

Address: 300A Prestige Drive

Street:

City: Hurricane

State: WV Country: USA Zip: 25526

Principal Contact: Mark E. Pennington

Vendor Contact Phone: 304-757-8094 Extension: NA

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III (304) 558-2306

joseph.e.hageriii@wv.gov

Vendor Signature X

FEIN# 55-0757403

DATE 3.18.21

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

Date Printed: Feb 17, 2021

Page: 1

FORM ID: WV-PRC-CEOI-002 2020/05

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) ("Agency"), from qualified firms to provide architectural/engineering services

The mission or purpose of the project for which bids are being solicited is to provide the following design services for the Ethel Hollow Phase II and Phase III projects ("Project").

Perform site investigation.

- .Design access for construction and future maintenance access.
- .Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off site. .Refuse reclamation.
- .Condition and revegetate all disturbed areas.

Per the bid requirements, specifications and terms and conditions attached hereto.

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

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

Comm Code	Manufacturer	Specification	Model #	
81100000				

Extended Description:

*Dates of Service are estimated for bidding purposes only.

SCHEDULE OF EVENTS

Line Event Date

Date Printed: Feb 17, 2021 Page: 2 FORM ID: WV-PRC-CEOI-002 2020/05

Ethel Hollow Phase II and Phase III CRQS: DEP21*12

Disclaimer: Effective July 1, 2020, the Purchasing Division will accept electronic proposals for Expressions of Interest via the Vendor Self-Service portal within wvOASIS. Paper submissions after this date are still acceptable.

TABLE OF CONTENTS:

- 1. Table of Contents
- 2. Section One: General Information
- 3. Section Two: Instructions to Vendors Submitting Bids
- 4. Section Three: Project Specifications
- 5. Section Four: Vendor Proposal, Evaluation, and Award
- 6. Section Five: Terms and Conditions
- 7. Certification and Signature Page

SECTION ONE: GENERAL INFORMATION

- 1. PURPOSE: The Acquisitions and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation (WVDEP-DLR-AML) ("Agency"), from qualified firms to provide architectural/engineering services ("Vendors") as defined herein.
- 2. PROJECT: The mission or purpose of the project for which bids are being solicited is to provide the following design services for the Ethel Hollow Phase II and Phase III projects ("Project").
 - Perform site investigation.
 - Design access for construction and future maintenance access.
 - Design of drainage conveyances, including drainage channels, underdrains, and/or other controls to safely convey water off site.
 - Refuse reclamation.
 - Condition and revegetate all disturbed areas.

Ethel Hollow Phase II and Phase III CRQS: DEP21*12

3. SCHEDULE OF EVENTS:

Release of the EOI	02/17/2021
Written Questions Submission Deadline.	
Addendum Issued	
Expressions of Interest Opening Date	
Evaluation Committee List of Three Highest Qualified Firms Provided	lTBD
Estimated Date for Interviews of Three Firms	
Price Negotiations Commence with Highest Ranked Firm	TBD

Ethel Hollow Phase II and Phase III CRQS: DEP21*12

SECTION TWO: INSTRUCTIONS TO VENDORS SUBMITTING BIDS

Instructions begin on the next page.

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

- 1. REVIEW DOCUMENTS THOROUGHLY: The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
- 2. MANDATORY TERMS: The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.

3. PREBID MEETING: The item identified below shall apply to this Solicitation.
A pre-bid meeting will not be held prior to bid opening
A MANDATORY PRE-BID meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing.

Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting Revised 01/09/2020

are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. VENDOR QUESTION DEADLINE: Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are nonbinding.

Submitted e-mails should have solicitation number in the subject line.

Question Submission Deadline: 03/10/2021 @ 4:00 PM ET

Submit Questions to: Josh Hager 2019 Washington Street, East Charleston, WV 25305

Fax: (304) 558-4115 (Vendors should not use this fax number for bid submission)

Email: Joseph.E.Hagerlll@wv.gov

- 5. VERBAL COMMUNICATION: Any verbal communication between the Vendor and any State personnel is not binding, including verbal communication at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
- 6. BID SUBMISSION: All bids must be submitted electronically through wvOASIS or signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The Purchasing Division will not accept bids, modification of bids, or addendum acknowledgment forms via e-mail. Acceptable delivery methods include electronic submission via wvOASIS, hand delivery, delivery by courier, or facsimile.

The bid delivery address is: Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

A bid that is not submitted electronically through wvOASIS should contain the information listed below on the face of the envelope or the bid may be rejected by the Purchasing Division.:

SEALED BID: EOI - Ethel Hollow Phase II and Phase III

BUYER: Josh Hager

SOLICITATION NO.: CEOI 0313 DEP2100000003

BID OPENING DATE: See next page BID OPENING TIME: See next page

FAX NUMBER: 304-558-3970

The Purchasing Division may prohibit the submission of bids electronically through wvOASIS at its sole discretion. Such a prohibition will be contained and communicated in the wvOASIS system resulting in the Vendor's inability to submit bids through wvOASIS. Submission of a response to an Expression or Interest or Request for Proposal is not permitted in wvOASIS.

	P") Responses Only: In the event that Vendor is responding
	dor shall submit one original technical and one original cost
proposal plus NA	_convenience copies of each to the Purchasing Division at the
address shown above. Additional	ly, the Vendor should identify the bid type as either a technical
or cost proposal on the face of each	ch bid envelope submitted in response to a request for proposal
as follows:	
BID TYPE: (This only applies to	CRFP)
☐ Technical	
Cost	
_	

7. BID OPENING: Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when confirmation of delivery is provided by wvOASIS (in the case of electronic submission) or when the bid is time stamped by the official Purchasing Division time clock (in the case of hand delivery).

Bid Opening Date and Time: 03/18/2021 @ 1:30 PM ET

Bid Opening Location: Department of Administration, Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

- 8. ADDENDUM ACKNOWLEDGEMENT: Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, 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.
- **9. BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.
- 10. ALTERNATE MODEL OR BRAND: Unless the box below is checked, any model, brand, or specification listed in this Solicitation establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the

equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

This Solicitation is based upon a standardized commodity established under W. Va. Code § 5A-3-61. Vendors are expected to bid the standardized commodity identified. Failure to bid the standardized commodity will result in your firm's bid being rejected.

- 11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.
- 12. COMMUNICATION LIMITATIONS: In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 13. REGISTRATION: Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee, if applicable.
- 14. UNIT PRICE: Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 15. PREFERENCE: Vendor Preference may be requested in purchases of motor vehicles or construction and maintenance equipment and machinery used in highway and other infrastructure projects. Any request for preference must be submitted in writing with the bid, must specifically identify the preference requested with reference to the applicable subsection of West Virginia Code § 5A-3-37, and must include with the bid any information necessary to evaluate and confirm the applicability of the requested preference. A request form to help facilitate the request can be found at:
- http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf.
- 15A. RECIPROCAL PREFERENCE: The State of West Virginia applies a reciprocal preference to all solicitations for commodities and printing in accordance with W. Va. Code § 5A-3-37(b). In effect, non-resident vendors receiving a preference in their home states, will see that same preference granted to West Virginia resident vendors bidding against them in West Virginia. Any request for reciprocal preference must include with the bid any information necessary to evaluate and confirm the applicability of the preference. A request form to help facilitate the request can be found at: http://www.state.wv.us/admin/purchase/vrc/Venpref.pdf.
- 16. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES: For any solicitations publicly advertised for bid, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, womenowned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or

minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to contract award to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority owned business shall be applied in accordance with W. Va. CSR § 148-22-9.

- 17. WAIVER OF MINOR IRREGULARITIES: The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 18. ELECTRONIC FILE ACCESS RESTRICTIONS: Vendor must ensure that its submission in wvOASIS can be accessed and viewed by the Purchasing Division staff immediately upon bid opening. The Purchasing Division will consider any file that cannot be immediately accessed and viewed at the time of the bid opening (such as, encrypted files, password protected files, or incompatible files) to be blank or incomplete as context requires, and are therefore unacceptable. A vendor will not be permitted to unencrypt files, remove password protections, or resubmit documents after bid opening to make a file viewable if those documents are required with the bid. A Vendor may be required to provide document passwords or remove access restrictions to allow the Purchasing Division to print or electronically save documents provided that those documents are viewable by the Purchasing Division prior to obtaining the password or removing the access restriction.
- 19. NON-RESPONSIBLE: The Purchasing Division Director reserves the right to reject the bid of any vendor as Non-Responsible in accordance with W. Va. Code of State Rules § 148-1-5.3, when the Director determines that the vendor submitting the bid does not have the capability to fully perform, or lacks the integrity and reliability to assure good-faith performance."
- 20. ACCEPTANCE/REJECTION: The State may accept or reject any bid in whole, or in part in accordance with W. Va. Code of State Rules § 148-1-4.5. and § 148-1-6.4.b."
- 21. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

- 22. INTERESTED PARTY DISCLOSURE: West Virginia Code § 6D-1-2 requires that the vendor submit to the Purchasing Division a disclosure of interested parties to the contract for all contracts with an actual or estimated value of at least \$1 Million. That disclosure must occur on the form prescribed and approved by the WV Ethics Commission prior to contract award. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.
- 23. WITH THE BID REQUIREMENTS: In instances where these specifications require documentation or other information with the bid, and a vendor fails to provide it with the bid, the Director of the Purchasing Division reserves the right to request those items after bid opening and prior to contract award pursuant to the authority to waive minor irregularities in bids or specifications under W. Va. CSR § 148-1-4.6. This authority does not apply to instances where state law mandates receipt with the bid.

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SECTION THREE: PROJECT SPECIFICATIONS

1. Background: Firms are to be licensed Architectural/Engineering Firms (A/E) in the State of West Virginia and should be familiar with and have successful track record of design of similar projects. The anticipated contract will be for "full service" A/E design. Aspects of the design are to include, but not be limited to; Civil, Geological and Hydrological.

The successful A/E Firm will be responsible for Design of the following:

- Access or accesses as required.
- Geotechnical analysis.
- 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 at the pre-design meeting.

Preliminary design documents will be due 60 days from the issuance of the Purchase Order.

This project is located near the community of Ethel, West Virginia, in Logan County. A site visit will be performed with the highest scoring Vendor during the negotiation phase of this solicitation.

- 2. Project and Goals: The project goals and objectives are listed below. Vendors should discuss any anticipated concepts and proposed methods of approach for achieving each of the listed goals and objectives:
 - 2.1. Develop construction plans and technical specifications to reclaim refuse piles.
 - 2.2. Design plans and develop specifications to control any associated water with the site.
 - 2.3. Design plans and develop specifications for limits of disturbance, storm water control and erosion and sediment prevention. All disturbed areas are to be regraded and revegetated.
 - 2.4. Obtain all required permits as determined at the pre-design meeting.

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3. Qualifications, Experience, and Past Performance: Vendors should provide information regarding its employees, such as staff qualifications and experience in completing similar projects; references; copies of any staff certifications or degrees applicable to this project; proposed staffing plan; descriptions of past projects completed entailing the location of the project, project manager name and contact information, type of project, and the project goals and objectives and how they were met.

The response should be presented in concise format which defines the corporation history and the experience, qualifications, and performance data of the firm's staff as requested by the AML Consultant Qualification Questionnaire (CQQ), Attachment "A" and the AML and Related Project Experience Matrix (RPEM), Attachment "B".

AML Consultant Qualification Questionnaire (CQQ) should be completed and submitted with Vendor's submitted response to be eligible (See Attachment "A"). AML and Related Project Experience Matrix (RPEM) should also be completed and submitted with Vendor's submitted response to be eligible (See Attachment "B").

- 4. Oral Presentations/Interviews: The Agency will conduct individual interviews with the three vendors that are determined to be the most qualified to provide the required service. During oral presentations/interviews, vendors may not alter or add to their submitted proposal, but only clarify information already submitted. A description of the materials and information to be presented is provided below:
 - 4.1. Materials and Information Required at Oral Presentation/Interviews:

An Oral Presentation will be conducted with the three firms selected as the most qualified by the WVDEP Selection Committee. The Committee will schedule the interviews. The format for the interviews will be a 15-30 minute PowerPoint presentation consisting, at a minimum, of the following:

- Corporate/personnel experience as it relates to the project or projects
- Proposed project management plan
- Key personnel available for the proposed work
- Proposed subcontractors (mapping, geotechnical, etc.)
- Product quality control
- Project cost control
- Project Schedule

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SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD

- 1. Economy of Preparation: EOIs should be prepared simply and economically, providing a straight-forward, concise description of the firm's abilities to satisfy the requirements and goals and objectives of the EOI. Emphasis should be placed on completeness and clarity of content. The response sections should be labeled for ease of evaluation.
- 2. BIDS MUST NOT CONTAIN PRICE INFORMATION: The State shall select the best value solution according to W. Va. Code §5G-1-3. In accordance with Code requirements, no "price" or "fee" information is permitted in the Vendor's EOI response.
- 3. Evaluation and Award Process: Expressions of Interest for projects estimated to cost \$250,000 or more will be evaluated and awarded in accordance with W.Va. Code §5G-1-3. That Code section requires the following related to evaluation and award:
 - 3.1. Selection Committee Evaluation and Negotiation: A committee comprised of three to five representatives of the agency initiating the request shall:
 - 3.1.1. evaluate the statements of qualifications and performance data and other material submitted by the interested firms and select three firms which in their opinion are the best qualified to perform the desired service.
 - 3.1.2. conduct interviews with each of the three firms selected.
 - 3.1.3. rank the three selected firms in order of preference
 - 3.1.4. and commence scope of service and price negotiations with the highest qualified professional firm.

If negotiations are successful, the contract documents will be forwarded to the WV Purchasing Division for review and approval, and then to the WV Attorney General's office for review and approval as to form. Once approved, a formal contract will be issued to the Vendor.

Should the agency be unable to negotiate a satisfactory contract with the professional

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firm considered to be the most qualified at a fee determined to be fair and reasonable, the agency will then commence negotiations with the second most qualified firm, and so on, until an agreement is reached or the solicitation is cancelled.

- 3.2. Three Firm Evaluation Rankings: The Agency will evaluate the three firms that have been determined most qualified to perform the desired service. The evaluation criteria are defined in the Procurement Specifications section and based on a 100 point total score. Points shall be assigned based upon the Vendor's response to the evaluation criteria as follows:
 - Qualifications, Experience, and Past Performance

Points Possible

- Goals and Objectives: –
 Anticipated Concepts and Methods of Approach
- Points Possible
- Oral Interview

Points Possible

Total 100

3.3 Contractor Information Form (AVS): Vendor must complete an AVS (Applicant Violator System) form to request an eligibility evaluation from the Office of Surface Mining Reclamation and Enforcement. This requirement applies to contractors and their sub-contractors and is found under OSMRE's regulations at 30 CFR 874.16. Vendor must sign and date it. Form must be completed within 30 days of award to be considered for award. The completion of the form will be requested by the Agency after evaluation and prior to award of the purchase order.

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SECTION FIVE: TERMS AND CONDITIONS

Terms and conditions begin on the next page.

GENERAL TERMS AND CONDITIONS:

- 1. CONTRACTUAL AGREEMENT: Issuance of a Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
- 2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
- 2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
- 2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.
- 2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.
- **2.4. "Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
- 2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.
- **2.6. "Award Document"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.
- 2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
- 2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
- **2.9. "Vendor"** or "**Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

determined in accordance with the category that has been identified as applicable to this Contract below:
☐ Term Contract
Initial Contract Term: Initial Contract Term: This Contract becomes effective on and extends for a period ofyear(s).
Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)
Alternate Renewal Term – This contract may be renewed for
Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.
Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within One thousand ninety five (1,095) calendar days.
Fixed Period Contract with Renewals: This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within days. Upon completion of the work covered by the preceding sentence, the vendor agrees that maintenance, monitoring, or warranty services will be provided for year(s) thereafter.
One Time Purchase: The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.
Other: See attached.
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upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.
5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
☐ Open End Contract: Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
Service: The scope of the service to be provided will be more clearly defined in the specifications included herewith.
Combined Service and Goods: The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
One Time Purchase: This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
7. REQUIRED DOCUMENTS: All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.
BID BOND (Construction Only): Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.
PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Purchasing Division prior to Contract award.

LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be delivered to the Purchasing Division prior to Contract award.
In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable. Notwithstanding the foregoing, West Virginia Code § 5-22-1 (d) mandates that a vendor provide a performance and labor/material payment bond for construction projects. Accordingly, substitutions for the performance and labor/material payment bonds for construction projects is not permitted.
MAINTENANCE BOND: The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.
LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.
The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

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8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below and must include the State as an additional insured on each policy prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed in this section.

The state of the s	
✓ Commercial General Liability Insurance in at least an amount of: \$1,000, occurrence.	,000.00 per
Automobile Liability Insurance in at least an amount of: \$1,000,000.00	per occurrence.
Professional/Malpractice/Errors and Omission Insurance in at least an a \$1,000,000.00 per occurrence. Notwithstanding the forgoing, Vendor list the State as an additional insured for this type of policy.	amount of: 's are not required to
Commercial Crime and Third Party Fidelity Insurance in an amount of per occurrence.	:
Cyber Liability Insurance in an amount of:	per occurrence.
Builders Risk Insurance in an amount equal to 100% of the amount of the	Contract.
Pollution Insurance in an amount of: per occurrence	·•
Aircraft Liability in an amount of: per occurrence.	

Vendor must maintain.

Notwithstanding anything contained in this section to the contrary, the Director of the Purchasing Division reserves the right to waive the requirement that the State be named as an additional insured on one or more of the Vendor's insurance policies if the Director finds that doing so is in the State's best interest.

9. WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. [Reserved]

not limit the State or A	MAGES: This clause shall in no way be considered exclusive and sharency's right to pursue any other available remedy. Vendor shall pay a amount specified below or as described in the specifications:	ιIJ
Δ	for	
Liquidated Da	ages Contained in the Specifications	

- 12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.
- 13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.
- **14. PAYMENT IN ARREARS:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears.
- 15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

- 16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.
- 18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.
- 19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.
- 20. TIME: Time is of the essence with regard to all matters of time and performance in this Contract.
- 21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.
 - SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.
- 23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

- 24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.
- 25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.
- 28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- **30. PRIVACY, SECURITY, AND CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/default.html.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR CERTIFICATIONS: By signing its bid or entering into this Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this Solicitation in its entirety; understands the requirements, terms and conditions, and other information contained herein.

Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

- 37. PURCHASING AFFIDAVIT: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Purchasing Division affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.
- 38. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE: This Contract may be utilized by other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"), provided that both the Other Government Entity and the Vendor agree. Any extension of this Contract to the aforementioned Other Government Entities must be on the same prices, terms, and conditions as those offered and agreed to in this Contract, provided that such extension is in compliance with the applicable laws, rules, and ordinances of the Other Government Entity. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 39. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- 40. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.
Quarterly reports detailing the total quantity of purchases in units and dollars, along with a isting of purchases by agency. Quarterly reports should be delivered to the Purchasing Division

41. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision. The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Revised 01/09/2020

via email at purchasing requisitions@wv.gov.

Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

- 42. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:
 - a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
 - b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 - c. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 - d. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.
- 43. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a

"substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

- 44. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the vendor must submit to the Agency a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original preaward interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.
- 45. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

ADDITIONAL TERMS AND CONDITIONS (Architectural and Engineering Contracts Only)

- 1. PLAN AND DRAWING DISTRIBUTION: All plans and drawings must be completed and available for distribution at least five business days prior to a scheduled pre-bid meeting for the construction or other work related to the plans and drawings.
- 2. PROJECT ADDENDA REQUIREMENTS: The Architect/Engineer and/or Agency shall be required to abide by the following schedule in issuing construction project addenda. The Architect/Engineer shall prepare any addendum materials for which it is responsible, and a list of all vendors that have obtained drawings and specifications for the project. The Architect/Engineer shall then send a copy of the addendum materials and the list of vendors to the State Agency for which the contract is issued to allow the Agency to make any necessary modifications. The addendum and list shall then be forwarded to the Purchasing Division buyer by the Agency. The Purchasing Division buyer shall send the addendum to all interested vendors and, if necessary, extend the bid opening date. Any addendum should be received by the Purchasing Division at least fourteen (14) days prior to the bid opening date.
- 3. PRE-BID MEETING RESPONSIBILITIES: The Architect/Engineer shall be available to attend any pre-bid meeting for the construction or other work resulting from the plans, drawings, or specifications prepared by the Architect/Engineer.
- **4. AIA DOCUMENTS:** All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the attached AIA documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein. The terms and conditions of this document shall prevail over anything contained in the AIA Documents or the Supplementary Conditions.
- 5. GREEN BUILDINGS MINIMUM ENERGY STANDARDS: In accordance with West Virginia Code § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: Provided, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

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. President (Name, Title) Mark E. Pennington, President (Printed Name and Title) Civil Tech Engineering Inc., 300A Prestige Drive, Hurricane, WV 25526 (Address) 304-757-8094/304-757-8095 (Phone Number) / (Fax Number) civiltech1@frontier.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. Civil Tech Engineering Inc. (Company) President (Authorized Signature) (Representative Name, Title) Mark E. Pennington, President (Printed Name and Title of Authorized Representative) March 18, 2021 (Date) 304-757-8094/304-757-8095

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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

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

Addendum Numbers Received: (Check the box next to each addendum received)	red)
Addendum No. 1 Addendum No. 2 Addendum No. 3 Addendum No. 4 Addendum No. 5	☐ Addendum No. 6 ☐ Addendum No. 7 ☐ Addendum No. 8 ☐ Addendum No. 9 ☐ Addendum No. 10
I further understand that any verbal representa	t of addenda may be cause for rejection of this bid ation made or assumed to be made during any oral ives and any state personnel is not binding. Only the specifications by an official addendum is
Civil Tech Engineering Inc.	
Company	
Authorized Signature	
March 18, 2021	
Date	

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

	WEST VIRGINIA DEPARTM AML CONSULTANT CONF	MENT OF ENVIRONMENTA IDENTIAL QUALIFICATI		Attachment "B"
PROJECT NAME Ethel Hollow Phase II and III DEP21*03	DATE (DAY, MONTE March 18, 2021	H, YEAR)	FEIN 55-0757403	
1. FIRM NAME CIVIL TECH ENGINEERING INC.	300A Prestige D	BUSINESS ADDRESS rive Virginia 25526	3. FORMER FIRM NAME NA	
4. HOME OFFICE TELEPHONE 304-757-8094	5. ESTABLISHED (YEAR) 1996		Venture Enterprise) YES	nged Business
7. PRIMARY AML DESIGN OFFICE: 300A Prestige Drive, Hurri	ADDRESS/ TELEPHONE/ PERSOI .cane, WV 25526/Mark E. Per		SIGN PERSONNEL EACH OFF	ICE
8. NAMES OF PRINCIPAL OFFICER Mark E. Pennington MS, E Jennifer E. Pennington E	PE	8a. NAME, TITLE, & TELI	EPHONE NUMBER - OTHER I	RINCIPALS
	- ECOLOGISTS - ECONOMISTS - ELECTRICAL ENGINEERS 1 ENVIRONMENTALISTS - ESTIMATORS 1 GEOLOGISTS - HISTORIANS - HYDROLOGISTS STERED PROFESSIONAL ENGINES and Mining must provide sugginist type of work.		NEERS 1 SURVEYO RS — TRAFFIC TS OTHER (Te YREGIONAL ERS 12	
10. HAS THIS JOINT-VENTURE WO		□ YES □ NO NA		
11. OUTSIDE KEY CONSULTANTS/S	SUB-CONSULTANTS ANTICIPATED	TO BE USED. Attach "AN	ML Consultant Confident	ial Qualification

Questionnaire".

NAME AND ADDRESS: Novel Geo-Environmental PLLC 806 B Street St. Albans, WV 25177 NAME AND ADDRESS: Triad Engineering Inc. 219 Hartman Run Road Morgantown, WV 26505 NAME AND ADDRESS: SPECIALTY: Drilling and Laboratory Soils Testing SPECIALTY: Drilling and Laboratory Soils Testing SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY:		WORKED WITH BEFORE No WORKED WITH BEFORE Yes No WORKED WITH BEFORE	
		Yes No	
	Abandoned Mine Lands Remediation/Mine Re of Projects: See Section A 162 AML Projects - Personn 50+ Subsidence Claims - Co	uel & Corporate Experience	
NO			
B. Is your firm experienced in YES Description and Number	of Projects: See Sections B.2, B.3, and	B.4 and Personnel Experience.	
NO			
C. Is your firm experienced in	hydrology and hydraulics?		
YES Description and Number	Number of Projects: See Sections B.2, B.3, and B.4 100+ Projects involving storm water controls and dam spillway Design/analysis.		
NO			
D. Does your firm produce its o	wn Aerial Photography and Develop Contou	r Mapping?	
YES			
NO XX			

Ε.		d in domestic waterline design? egradation as a result of minir		ar firm has in
	YES Description and Nu	umber of Projects:Douglas V	Water line_(DEP ID#303)	
	NO			
F.	Is your firm experienced Evaluation and Abatement	5		
	YES Description and Nu	umber of Projects:_ Design of I	Liming station and dams for Cr	ranberry River
	NO			
	L HISTORY STATEMENT OF PR t keep to essentials)	RINCIPALS AND ASSOCIATES RESPON	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLI	E (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Pennington,	, Mark E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
President -	- Principal Engineer	25	EXPERIENCE: 45	WATERLINE DESIGN EXPERIENCE: 9

Brief Explanation of Responsibilities:		
Brief Explanation of Responsibilities:	ı 	
PROJECT RESPONSIBILITIES	COMPANY RESPONSIBIL	TIES RECENT AND ONGOING PROJECTS
□ LANDSLIDE ANALYSIS AND DESIGN □ ENVIRONMENTAL PERMITTING □ TOPOGRAPHIC MAPPING □ HYDROLOGY AND HYDRAULICS □ FLOOD ASSESSMENT □ EROSION CONTROL □ STORM WATER CONTROLS □ SANITARY SEWER DESIGN □ GEOTECHNICAL ANALYSIS □ SUBSIDENCE ABATEMENT □ RETAINING WALL DESIGN □ DAM MODIFICATIONS □ ANNUAL DAM INSPECTIONS □ COMMERCIAL CIVIL SITE □ DEVELOPMENT □ CONSTRUCTION CONTRACT ADMINISTRATION	☐ COMPANY MANAGE ☐ BUSINESS DEVELOR ☐ PROJECT PLANNING SUPERVISION	MENT PROSPECT VALLEY HIGHWALL #4 – AML
gained a broad knowledge of most civil controls, dams, as well as private, indanalysis, and civil site development. many large commercial, private, and independent.	engineering disciplines invustrial, and municipal proj He has been responsible for ustrial projects. Mr. Penn	g and a founder of Civil Tech, Mr. Pennington has olving abandoned mine lands, storm water and erosion ects involving topographic mapping, geotechnical 162 AML projects, 65 dam modification projects, and ington has a working knowledge of AML projects
		shafts, burning refuse, and surface/subsurface
		e 2008. These projects have included; the Thomas
		ambria Portals, Winifrede Portals, Douglas WL,
		complete and all have been successfully completed
		uction experience gained while administering the
		e Assistant Project Manager on the USACE Moorefield
Flood Levee Project as an employee of H	_	er, West Virginia.
EDUCATION (Degree, Year, Specialization)	
BSCE/1977/Civil Engineering Undergradua MSCE/1985/Soils and Foundations/WVCOG	te Degree - WVU	
MEMBERSHIP IN PROFESSIONAL ORGANIZATION	S	REGISTRATION (Type, Year, State)
American Society of Civil Engineers (AS	CE)	CE/1981/WV CE/1995/NC CE/1988/KY CE/1988/OH
Association of State Dam Safety Officia		CE/2013/VA PS/1995/WV
Apportation of place Dam parety Official	TB (ADDDO)	CB/ 2013/ VA FB/ 1993/ MV
13. PERSONAL HISTORY STATEMENT OF PRINC	IPALS AND ASSOCIATES RESPON	SIBLE FOR AML PROJECT DESIGN (Furnish complete

data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	I	YEARS OF EXPERIENCE	
Pennington, Jennifer E. Vice President - Principal Engineer	YEARS OF AML DESIGN EXPERIENCE:		YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0
Brief Explanation of Responsibilitie	es		
COMPANY RESPONSIBILITIES PROJECT RESPONSIBILITIES			
□ COMPANY MANAGEMENT □ PROJECT PLANNING AND □ DIRECTION □ FLOOD ASSESSMENT □ EROSION CONTROL □ STORM WATER CONTROLS □ GEOTECHNICAL ANALYSIS □ RETAINING WALL DESIGN □ DAM MODIFICATIONS □ ANNUAL DAM INSPECTIONS □ COMMERCIAL CIVIL SITE DEVELOPMENT			
Ms. Pennington is a multi-discipline geotechnical engineering projects in design/rehabilitation, civil site de Engineering. While with Triad, she for the analysis of the Rock Branch design engineering associated with role Zebb's Creek, Birds Creek, Oldhouse Pennington's duties and responsibilitanalysis, civil site design, dam mod of HEC1, HEC2, Dams2, Flowmaster, Hy	evolving subsurface investigate velopment, storm water controperformed geotechnical analystandslide Project in Kanawha ecent AML projects including Branch, Little Daycamp, Montesties at Civil Tech include plaification design, and hydrologydrocad, SPW911, PCstable 5 and analystored stored	ion, geotechnical analysis, ls, etc. She is a former sen is for many AML projects and County. Ms. Pennington has Thomas Sunrise Sanitation, Pcarlo, Chaffey Run, and Boot anning, direction, and perfogic/hydraulic analysis. She	dam ior engineer with Triad was directly responsible also been responsible for rospect Valley, Cambria, hs Creek. Ms. rmance of geotechnical has expertise in the use
BSCE/1988/Civil Engineering Undergra		Kentucky	
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	TIONS	REGISTRATION (Type, Year, State)	
American Society of Civil Engineers (ASCE) Association of State Dam Safety Officials (ASDSO)		CE/1992/WV PS/1995/WV	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIG	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Kessler, Robert R Geologist	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities	s:		
Mr. Kessler is responsible for all g Tech. Projects include mining subsi modifications throughout West Virgin	idence investigations, blastir ia.		
EDUCATION (Degree, Year, Specializat:	ion)		
B.S Mathematics - 1980 - Universi	to 1966 - Geology - Ohio University of Charleston		
MEMBERSHIP IN PROFESSIONAL ORGANIZAT	IONS	REGISTRATION (Type, Year, St	ate)
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	INCIPALS AND ASSOCIATES RESPO	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
NAME & IIIDE (Dase, FIISE, MIGGIE INC.,	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF EMPERIENCE YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC
Arthur, Charles D CADD Designer		EXPERIENCE:	WATERLINE DESIGN
& Survey Crew Party Chief	12	20	EXPERIENCE: 2
Senior designer responsible for direct Eagle Point modeling software, survey as a senior designer for the following. Thomas Mine Drainage and Bloword. Prospect Valley Highwall No. 4 Winifred McFann Portals, Winification Portals, Cambria Portals, Harrison County. Cambria Portals, Harrison County. Hawkinberry Hollow Portals, Manual Thomas Sewer-Stormwater Segregate. Thomas Stormwater Improvements. Nearly 40 dam modification promoder Holiday Inn Express, Mineral Wellow. Fairfield Inn & Suites, Weirton. Birds Creek Portals, Preston County. Witcher Creek Portals, Kanawha. Montecarlo Complex, Wyoming County. Grafton#4 Refuse and Highwall, Little Daycamp Branch, McDowell. Oldhouse Branch Refuse - Wyoming. Booths Creek Browning Farm Mineral. Rt. 49 Goolsby Landslide, Mingal. Chaffey Run Strip, Tucker County.	y party chief, and evaluation ng recent projects. ut AML Projects, Thomas, WV , Shinnston, WV rede, Kanawha County, WV s, WV nty, WV ty, WV rion County, WV ation Project, Thomas, WV , Thomas, WV jects throughout WV ells, WV n, WV county, WV unty, WV County, WV Unty, WV Taylor County, WV l County, WV ng County, WV es, Marion County, WV o County, WV		

Mr. Arthur also performs field surveying necessary to support engineering services and develop topographic mapping required for all civil project performed by our company. EDUCATION (Degree, Year, Specialization) Pre-blast Surveyor Training - May 2003 - WVDEP Computer-aided Drafting/1080 hours - June 2000 - Ben Franklin Career and Tech. Ed. Ctr., Dunbar, WV Welding/1,320 hours - June 1997 - Ben Franklin Career and Tech. Ed. Ctr., Dunbar, WV Welding/72 hours - Dec 1993 - Richmond Technical Center, Richmond, VA 14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES Software: ☐ Autocad Civil3D ☐ Microstation ☐ Eaglepoint 2009 ☐ HEC-1 ☐ HEC-2 ☐ HECRAS ☐ HEC-HMS ☐ Dams2 ☐ Hydrocad version 9 ☐ Flowmaster ☐ Sewercad ☐ Watercad ☐ PCstable ☐ SPW911 - Pile Buck Sheet Pile Wall Design Program ☐ Word Perfect, Excel, and other office support programs. Equipment: ☐ 2 4WD Pickup ☐ 1 Jeep Grand Cherokee ☐ 1 Jeep Cherokee ☐ 4 Desktop Computers ☐ 5 Laptop Computers ☐ 4 Digital Cameras ☐ 1 HP Designjet 1050C Plotter ☐ 4 HP Deskjet Printers ☐ 1 Color Laser Printer ☐ 1 Topcon Total Station & Carlson Controller ☐ 1 Leica Level ☐ Rods, prisms, tripods, targets, and survey support equipment 15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD PROJECT NAME, TYPE AND NAME AND ADDRESS OF NATURE OF YOUR FIRM'S ESTIMATED CONSTRUCTION PERCENT COMPLETE LOCATION OWNER RESPONSIBILITY COST

Six Dam Modifications Rollins 1 and 2 Fairfax Pond Upper Decker 3 and 7 Dams Turkey Run Dam	Brad Leslie WVDNR Parks & Recreation Section 324 Fourth Ave. South Charleston, WV 25303	Topographic Mapping Design Permitting Bidding Construction Monitoring Contract Administration		\$ 4,000,000 to 5,000,000 (Estimated)	Mapping 100% Design 100% Permitting 100% Bidding 100% Const. Monitoring 50% Contract Admin 50% Construction ongoing						
Chaffey Run Strip Tucker County, WV	Sheldon Holbert WVDEP-AML Bridgeport, WV	Subsurface In Design Permitting Bidding Construction	-	\$ 2,000,000 - 3,000,000 (Estimated)	Design 90% (scope revised) Permitting 90% Bidding 0% Const. Assistance 0% Construction expected 2021.						
MS Lake Access Improvements Grant County, WV	Brad Leslie WVDNR Parks & Recreation Section 324 Fourth Ave. South Charleston, WV 25303	Design Permitting Bidding Construction	Design 50% Permitting 0% Bidding 0% Const. Assistance 0% Construction expected 2021.								
Winfield Water Supply Dam Modification	Mr. Gary Young G&G Builders 135 Corporate Center Drive Scott Depot, WV 25526	Design Permitting Bidding Construction	nitting		Mapping 100% Design 90% Permitting 100% Bidding 0% Const. Monitoring 0% Contract Admin 0% Construction expected 2021						
Hazel Run Dam Modification Preston County, WV	Mr. James Collins 1316 Summers School Road Morgantown, WV 26508	Topographic Mapping Design Permitting Bidding Construction Monitoring Contract Administration		\$ 250,000 (Estimated)	Mapping 100% Design 50% Permitting 50% Bidding 0% Const. Monitoring 0% Contract Admin 0% Construction TBA						
Lake Dredging Project Beech Fork Lake Beech Fork State Park	Brad Leslie WVDNR Parks & Recreation Section 324 Fourth Ave. South Charleston, WV 25303	Mapping Design Permitting Bidding		Design Permitting		Design Permitting		Design Permitting		\$ 1,000,000 (Estimated)	Mapping 100% Design 100% Permitting 100% Bidding 0% Const. Monitoring 0% Contract Admin 0% Construction expected 2021-2024
Dickinson & Brood Pond Dam Modifications FMC Sportsman's Club Hurricane, WV TOTAL NUMBER OF PROJECTS	Mr. James Pringle FMC Sportsman's Club Hurricane, WV	Topographic M Design Permitting Bidding Construction Contract Admi	Monitoring inistration	\$ 300,000 (Estimated) ATED CONSTRUCTION COSTS:	Mapping 100% Design 100% Permitting 100% Bidding 0% Const. Monitoring 40% Contract Admin 0% Construction underway \$ 10,800,000						

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					
 17. COMPLETED WORK WI	THIN LAST 5 YEARS	 ON WHICH YOUR FIRM W	AS THE DESIGNATED ENG	SINEER OF RECORD						
PROJECT NAME, TYPI AND LOCATION	0	AND ADDRESS F OWNER	ESTIMATED CONSTRUCT: COST	ION YEAR	CONSTRUCTED (YES OR NO)					
Conaway Run Dam Modifica Tyler County, WV	WVDNR Parks & 324 Fourth Av South Charles	Recreation Section e. ton, WV 25303 B. C. C.	opographic Mapping esign ermitting idding onstruction Monitoring ontract Administration	2017	YES					
Lake Bell Portals Kanawha County, WV	Jonathan Holb WVDEP-AML Charleston, W	V Pe	esign ermitting idding onstruction Assistance	2019	YES					
Reservoir Dam Breach Rep Palestine Fish Hatchery Wirt County, WV	WVDNR Parks & 324 Fourth Av	Recreation Section e. B. ton, WV 25303	esign ermitting idding onstruction Monitoring ontract Administration	2018	YES					
MM16 Culvert Collapse Re North Bend Rail Trail Wirt County, WV	WVDNR Parks & 324 Fourth Av	Recreation Section Pe	esign ermitting idding onstruction Monitoring	2019	YES					
Cacapon Dam Modification Park and Reservoir Dams	WVDNR	creation Section	1,700,000	2017	YES					
Culloden PSD Dam Modification Reduction Below Jurisdic Culloden, WV	Mr. Brian Tuc WV American W	ker \$ ater	500,000	2017	YES					

Booths Creek(Browning Farm) Mines	Gregg Smith WVDEP-AML	\$ 750,000 (Estimated)	2017	YES
Marion County, WV	Bridgeport, WV			
Grafton #4 Refuse & HW Taylor County, WV	Gregg Smith WVDEP-AML Bridgeport, WV	\$ 750,000 (Estimated)	2016	YES
Oldhouse Branch Refuse Piles Wyoming County, WV	Mark Proctor WVDEP-AML Oak Hill, WV	\$ 750,000 (Estimated)	2017	YES
Erosion and Landslide Repairs North Bend Rail Trail	Mr. Brad Leslie WVDNR Parks and Recreation Section 324 4 th Avenue South Charleston, WV	\$ 200,000	2016	YES
Erosion and Landslide Repairs Greenbrier River Trail	Mr. Brad Leslie WVDNR Parks and Recreation Section 324 4 th Avenue South Charleston, WV	\$ 200,000	2016	YES
Railroad Embankment Repair McGuire Nuclear Station Huntersville, NC	Mr. Evan Katzke Duke Power McGuire Nuclear Station Huntersville, NC	\$ 1,500,000	2013	YES
Stowe Refuse Piles Logan County, WV	Roger Earle WVDEP - AML Charleston, WV	\$ 750,000	2013	YES
Ridenour Complex Monongalia County, WV	Gregg Smith WVDEP-AML Bridgeport, WV	\$ 250,000	2013	YES
Braeholm (Evans) Portals and Drainage Logan County, WV	Roger Earle WVDEP - AML Charleston, WV	\$ 250,000	2013	YES
Douglas Waterline Extension Tucker County, WV	Jonathan Holbert WVDEP-AML Charleston, WV	\$ 250,000	2013	YES
ı			1	

	N LAST 5 YEARS ON WHICH YOUR FIRM WAS RESPONSIBLE)	OUR FIRM HAS BEEN A SUB-CONSULTA	ANT TO OT	HER FIRMS (INDI	CATE PHASE
PROJECT NAME, TYPE	NAME AND ADDRESS	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED	FIRM ASSOCIATED
AND LOCATION	OF OWNER		(YES OR NO)	WITH	
10 77 11		mation or description of resource			
City of Bridgeport, Ne Duke Power, Huntersvil Water, and other priva Portals, Subsidence Ak breach/reclamation, ci	ewPage Corporation, Mt. To lle, NC, WVDNR Parks and Nate concerns and contracto patement, landslides, and livil site design, infrast	arleston, and Fayetteville Office op PSD, Dominion Generation - Mi Wildlife Sections, American Electors. Current and recent AML proparation our expression. Our expression waterline extension. Our expression was a site grading combined irm most qualified for AML Design	t. Storm ctric Pow jects inc perience l with ou	& North Branch er - John Amos lude AMD, Highw with impoundmen r AML experienc	Power Stations, Plant, WV American vall Reclamation, uts, dam
20. The foregoing is a sta		IIM MOSE qualified for AML Design	gn Projec	cs.	
				Date: March 18	2021
				pace: March 10	, 2021
Signature:		Title: President			
Printed Name: Mark E. Per	nnington				

AML and RELATED PR	OJECT E	XPERIENC	CE MAT	RIX																			
	PROJECT EXPERIENCE REQUIREMENTS									PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional													
PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s)	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/Nitigation/ Replacement	Construction Inspection/Manageme nt	Water Treatment	Eq;uipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Mark Pennington	Jennifer Pennington	Robert Kessler	Charles Arthur Jr.	H. Thomas Brown	
Thomas Sunrise Sanitation Mine Drain	С	Α		X		X					Х		X					M/P	Р		Р		
Thomas Sunrise Sanitation Mine Blowout	С	А		Х	Х	Х					X		Х				Х	M/P	Р		Р	Р	
Prospect Valley Highwall #4	С	Α	Х	Х	X	Х					X		X				X	M/P	Р	Р	Р	Р	
Winifred (McFann) Portals	С	Α		х	Χ	х					X		Х					M/P	Р	Р	Р	Р	
Douglas WL Extension	С	Α									X	X	Х					M/P	Р	Р	Р	Р	
Pines CC Subsidence	С	Α				х			Х		X	X	Х				Х	M/P	Р	Р	Р	Р	
Cambria Portals & Drainage	С	Α		Х	Х	Х					X	Х	X				X	M/P	Р	Р	Р	Р	
Zebbs Creek HW#2	С	Α	Х			Х					X		X				X	M/P	Р	Р	Р	Р	
Nellis (Smith) Drainage	С	Α				х					X		Х					M/P	Р	Р	Р	Р	
Hawkinberry Hollow	С	Α	X	х	X	х			Х		X	X	Х					M/P	Р	Р	Р	Р	
Birds Creek Portals	С	Α	X	х	X	х					X	X	X				X	M/P	Р	Р	Р	Р	
Stowe Refuse Piles	С	Α	X	X		Х					X		X				X	M/P	Р	Р	Р	Р	
Ridenour Complex	С	Α	X	х	X	Х			Х		X		X				X	M/P	Р	Р	Р	Р	
Breaholm (Evans) Portals	С	Α	X	Х	X	Х					X		X				X	M/P	Р	Р	Р	Р	
Witcher Creek Portals	С	Α	X	Х	X	Х					X	X	X		X	X	X	M/P	Р	Р	Р	Р	
Turner Slide	Р	Α	X	X		Х					X						X	M/P	Р				
Montecarlo Complex	С	Α	X	х	X	Х			Х		X		Х				X	M/P	Р	Р	Р	Р	
Grafton #4 Refuse and HW	С	Α	X	х	X	х			Х		X		Х				X	M/P	Р	Р	Р	Р	
Little Daycamp Branch	С	Α	X	X	X	х					X		X				X	M/P	Р	Р	Р	Р	
Oldhouse Branch	С	Α	X	X	X	х					X				X		X	M/P	Р	Р	Р		
Booths Creek Mines	С	Α		X	X	х			X		X				X		X	M/P	Р	Р	Р		
Lake Bell Portals	С	Α	Х	Х	Х	Х					X		X				X	M/P	Р	Р	Р		

^{*} 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.

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

Title

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.

Civil Tech Engineering Inc.

Part A: General Information

Business Name:

Date

Dusiness maine.	
Tax ID#:	55-0757403
Address:	300A Prestige Drive
City, State, & Zip:	Hurricane, WV 25526
Phone Number:	304-757-8094
Email Address:	304-757-8095
	rganizational Family Tree (OFT) from the Applicant Violator System (AVS)
To obtain an OFT, you https://avss.osmre.gov	he existing AVS information or submit updates under Part C, you must include an OFT. u may contact the AVS Office at 800-643-9748 or from the AVS website at: v/v. Instructions for how to download an OFT from the AVS can be found at: v/programs/AVS/aml-instructions.pdf.
Part C: Certifying an	nd updating information in the AVS
Select only one of the	following options, follow the instructions for that option, and sign and date below.
I, Mark E. Penningto (Print Name)	on, have express authority to certify that:
	s in the AVS and is accurate, complete, and up-to-date. If you select this option, you must y OFT from the AVS to this form. <u>Do not</u> complete Part D.
<i>*</i>	s in the AVS but needs to be updated. If you select this option you must attach an Entity AVS to this form. Use Part D to provide the missing or corrected information.
3. Our business is	s not in the AVS and needs to be added. Complete Part D.
3.18.21	President

Signature

OMB # 1029-0119

Expiration Date: 10/31/2021

Part D: OFT Information

Contractor's Business Name:	Civil Tech Engineering Inc.
-	

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.

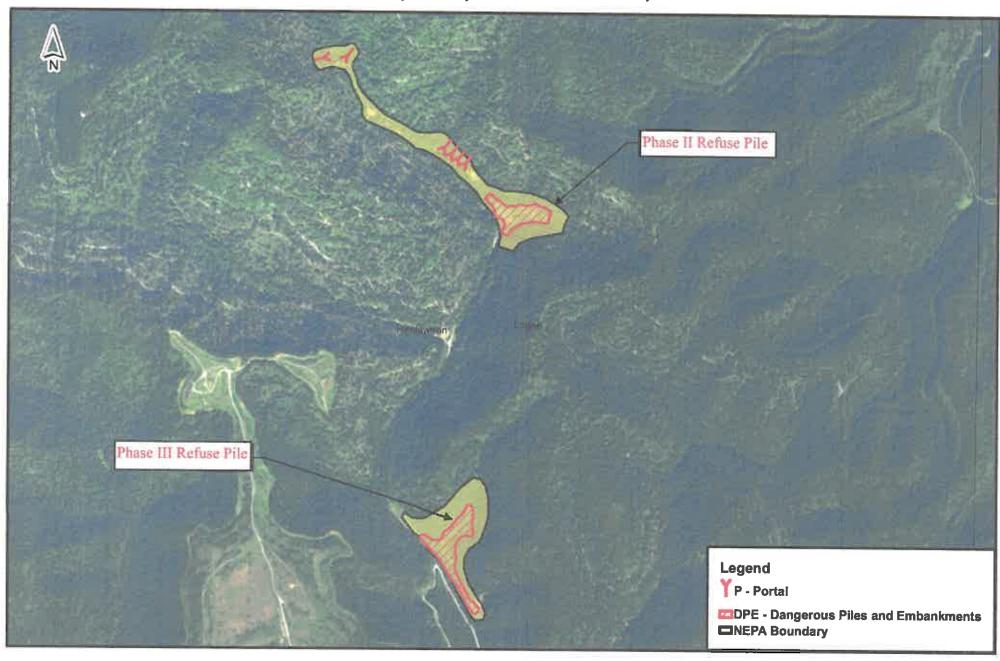
Name:	Mark E. Pennington		Name:	
Address:	300A Prestige Drive, Hurrica	ane, WV	Address:	
Begin Date:	February 1996	25526	Begin Date:	
End Date:	Not Applicable		End Date:	
% Ownership:	100%		% Ownership:	
Position/Title:	President		Position/Title:	
Phone Number:	304-757-8094		Phone Number:	
Name:			Name:	
Address:			Address:	
Begin Date:			Begin Date:	_
End Date:			End Date:	
% Ownership:			% Ownership:	
Position/Title:			Position/Title:	
Phone Number:			Phone Number:	

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.

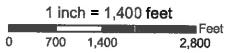
Public reporting burden for this form is estimated to range from 15 minutes to one hour, with an average of 30 minutes per response, including time for reviewing instructions, gather and maintaining data, and completing and reviewing the form. You may direct comments regarding the burden estimate or 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.

Aerial Project Map Ethel Hollow (Vance) Refuse & Portals; WV-2129



USGS Quadrangle: Henlawson

Latitude: 37° 52' 56" N



County: Logan

Longitude: 81° 54' 05" W

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

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

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

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

"Interested party" or "Interested parties" means:

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

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

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

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

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Civil Tech Engineering	Address: 300A Prestige Drive
	Hurricane, WV 25526
Name of Authorized Agent: Mark E. Pennington	Address: Same
Contract Number: DEP21-03 Contr	act Description: Ethel Hollow Phase II and III
Governmental agency awarding contract: WVDEP	
☐ Check here if this is a Supplemental Disclosure	
List the Names of Interested Parties to the contract which are know entity for each category below (attach additional pages if necessary)	n or reasonably anticipated by the contracting business
 Subcontractors or other entities performing work or servi ☐ Check here if none, otherwise list entity/individual names be 	
2. Any person or entity who owns 25% or more of contracting ☐ Check here if none, otherwise list entity/individual names be Mark E. Pennington 100%	
\mathcal{O}	cable contract)
Notary Verification	
State of West Virginia County of	Putnam:
I, Mark E. Pennington entity listed above, being duly sworn, acknowledge that the Disclopenalty of perjury.	, the authorized agent of the contracting business bare herein is being made under oath and under the
Taken, sworn to and subscribed before me this	day of MAICH . 2021.
To be completed by State Agency: Date Received by State Agency: Date submitted to Ethics Commission: Governmental agency submitting Disclosure:	Notary Public's Signature OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Medical Control of the control of
	Madison Cottrill Refusettion & No Poplar Fork Rd Scott Depot, WV 25560 My Commission Expires October 24, 2025

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:

WITHERO THE FOLLOWING CIGNATURE.

My Commission Expires October 24, 2025

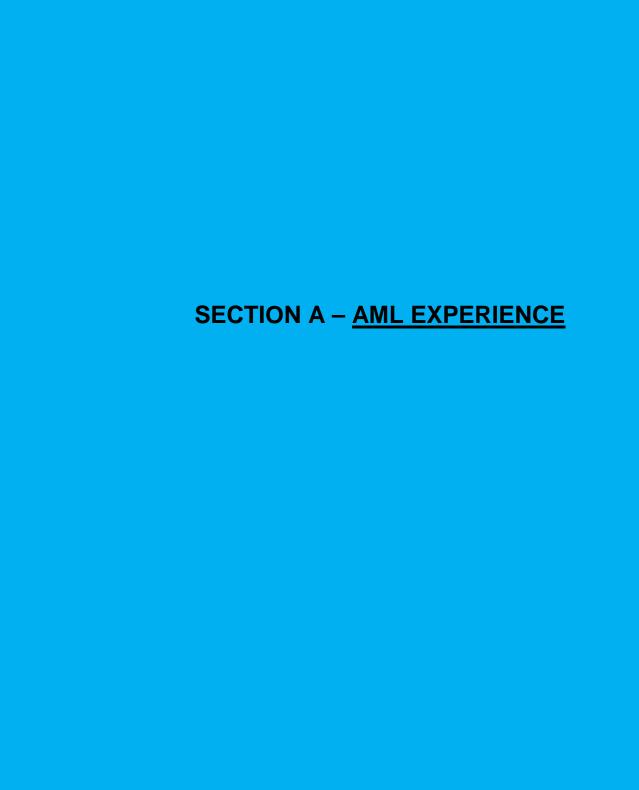
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due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

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

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

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

WITHESS THE POLLOWING SIGNATURE:
Vendor's Name:Civil Tech Engineering Inc.
Authorized Signature: Date: 3/5/21
State of
County of Atnam, to-wit:
Taken, subscribed, and sworn to before me this 15th day of March , 20_2.
My Commission expires 10 24 2025
APPLO FICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Madison Cottrill City National Bank 100 Poplar Fork Rd Scott Depot, WV 25560
Scott Depot, vv Services of Citober 24, 2025



SECTION A - ABANDONED MINE LANDS EXPERIENCE

Thomas (Sunrise Sanitation) Mine Drainage Project (DEP14171). Complete June, 2010.
Thomas Sunrise Sanitation Mine Blowout (Emergency Project). Complete Spring, 2009.
Prospect Valley Highwall #4 (DEP 14433). Complete 2011.
Winifrede (McFann) Portals (DEP 14479). Complete 2011.
Pines County Club (Ponds) Subsidence (DEP14633). Preliminary Design – Project Cancelled.
Douglas Water Line Extension (DEP14951). Construction Complete 2013.
Cambria Portals & Drainage Design (DEP 14845). Construction Complete 2012.
Birds Creek Portals (DEP 15065). Construction complete 2012.
Nellis (Smith) Drainage (DEP15002). Construction complete 2012
Zebb's Creek Highwall #2 (DEP14991). Construction complete 2011.
Hawkinberry Hollow Portals and Drainage (DEP 15220). Construction complete 2012.
Stowe Refuse Piles (DEP15586). Construction Complete 2014.
Witcher Creek Portals and Refuse (DEP15601). Construction Complete 2014.
Ridenour Complex (DEP15598). Construction complete 2013.
Braeholm (Evans) Portals & Drainage (DEP15634). Construction complete 2013.
Montecarlo Complex (DEP16032). Complete through bidding 2014 Cancelled after bidding.
Grafton #4 Refuse & Highwall (DEP16073) – Construction Complete.
Little Daycamp Project (DEP16033) – Construction Complete 2015
Oldhouse Branch Refuse (DEP16395) - Construction Complete
Booths Creek Browning Farm Mines (DEP16430) – Construction Complete
Rt. 49 (Goolsby) Landslide (Emergency Project) – Construction Complete
Monarch Portals – Construction Complete
Chaffey Run Strip – Construction Anticipated 2021
Lake Bell Portals – Construction Complete 2019
Pine Bluff (Wilson) Refuse - Design Complete, Permitting Underway - Construction Complete 2020

- 2. Principals of Civil Tech were responsible for planning, performing, and managing past AML work performed by Triad prior to February of 1996: Prior to forming Civil Tech, Mark Pennington managed the branch office of Triad Engineering in St. Albans, West Virginia. Jennifer Pennington was a senior engineer in that office. While employed by Triad, our principals were responsible for the performance and/or management of virtually all AML projects performed until February of 1996 when we resigned from Triad. A total of approximately 137 AML projects were completed during the period of 1990 to early 1996.
- 3. **Civil Tech Mine Subsidence Determinations:** Our corporate AML experience is detailed on the enclosed CCQQ forms. Our recent corporate experience includes examination of structures to determine cause of damage and mining relatedness. We have performed these mine subsidence determinations using information on file with the WVGS, and with the assistance of AML personnel and records. Services have been provided for insurance companies and BRIM.
- 4. Civil Tech has demonstrated experience and professional capability in all aspects of engineering and support services required to successfully complete AML

Projects. Since forming Civil Tech, our staff has successfully completed nearly 2000 projects. Services provided have included: surveying and mapping, subsurface investigations, laboratory analysis,

Statement of Qualifications Civil Tech Engineering, Inc. Last Revised March 2021

geotechnical engineering, structural design and assessment, environmental engineering, sewer & stormwater projects, land use/planning, reclamation, hydraulic/hydrologic studies, flood routing, dam break analysis and risk assessment, design engineering, plans, specifications, bidding, contract administration, and construction monitoring. See enclosed CCQQ forms for Civil Tech Engineering, Inc. and Sections B.1 thru B.4.

5. As highlighted in this submittal, our experience with the design of civil infrastructure and dam design combined with our AML experience makes our company uniquely qualified for AML Design Projects.

A partial listing of AML experience gained while employed by Triad during 1990 to 1996 is presented in this submittal along with other related projects which include photographs to showcase our capability to provide services for AML projects.

AML Projects Performed in 1990	
	Approximately 20 projects were completed.
	These projects included: mine drainage, subsidence, and landslides.
	Typical Projects included:
Carbo	ondale Portals, Smithers, WV
<	AML Representative: Neil Robinson
<	Services Provided: Drilling, Sampling, Engineering
Tuppers Creek (Burford) Landslide, Kanawha Co., WV	
<	AML Representative: Michael Richardson
<	Services Provided: Surveying, Mapping, Drilling, Stability Analysis, Mine Drainage Control, Mine Seals, Plans, Specifications, Bidding Assistance.
AML Projects Performed in 1991	
	Approximately 20 projects were completed.
	These projects included: landslides, mine shafts, subsidence, mine and refuse
	fires, and mine drainage.
	Typical Projects included:
Pine Creek Mine Shaft, Logan Co., WV	
<	Work Performed for AML
<	Services Provided: Surveying, Mapping, Drilling, Plans, Specifications, Bidding Assistance.
Monaville School Subsidence Determination, Logan Co., WV	
<	Work Performed for AML
<	Services Provided: Drilling and Engineering
AML Projects Performed in 1992	
	Approximately 25 projects were completed.
	These projects included: landslides, subsidence, mine shafts, refuse fires, and
	mine drainage.
	Typical Projects included:

McMillian Drainage, Davis Creek, Kanawha Co., WV

- < Work Performed for AML
- Services Provided: Surveying, Mapping, Drilling, Lab, Engineering.

Millburn Burning Refuse, Kanawha Co., WV

- < Work Performed for AML
- Services Provided: Surveying, Mapping, Drilling, Lab, and Engineering

AML Projects Performed in 1993

- ☐ Approximately 26 projects were completed.
- These projects included: aerial surveying and mapping, landslides, subsidence, and mine drainage.
- ☐ Typical Projects included:

Eckman Refuse Pile, McDowell Co., WV

- < Work Performed for AML
- Services Provided: Ground Control, Aerial Photography, Aerial Mapping.

Oxley Subsidence and Slide, Davis Creek, Kanawha Co., WV

- < AML Representative: Michael Richardson
- Services Provided: Surveying, Drilling, Engineering

AML Projects Performed in 1994

- ☐ Approximately 27 projects were completed.
- These projects included: aerial surveying and mapping, landslides, subsidence, and mine drainage.
- ☐ Typical Projects included:

Turner Landslide, Belle, WV

- < Work Performed for AML
- < Services Provided: Surveying, Mapping, Drilling, Sampling, Plans, Specifications, Bidding Assistance

Sammons Drainage, Chauncey, WV

- < Work Performed for AML
- < Services Provided: Drilling and Engineering

AML Projects Performed in 1995

- ☐ Approximately 19 projects were completed.
- These projects included: aerial surveying and mapping, landslides, subsidence, burning refuse, and mine drainage.
- ☐ Typical Projects included:

Mullins Subsidence, Crab Orchard, WV

- < AML Representative: Michael Richardson
- Services Provided: Drilling, Sampling and Engineering

Big Cub Creek Refuse Pile

- < AML Representative: Dean Stiltner
- < Services Provided: Aerial Photography, Ground Control, Aerial Mapping

Sample design drawings and photographs from our recent AML Projects follow this page.



Thomas Sunrise Sanitation – DEP14171



Thomas Sunrise Sanitation – DEP14171



Prospect Valley Highwall #4 – DEP14433



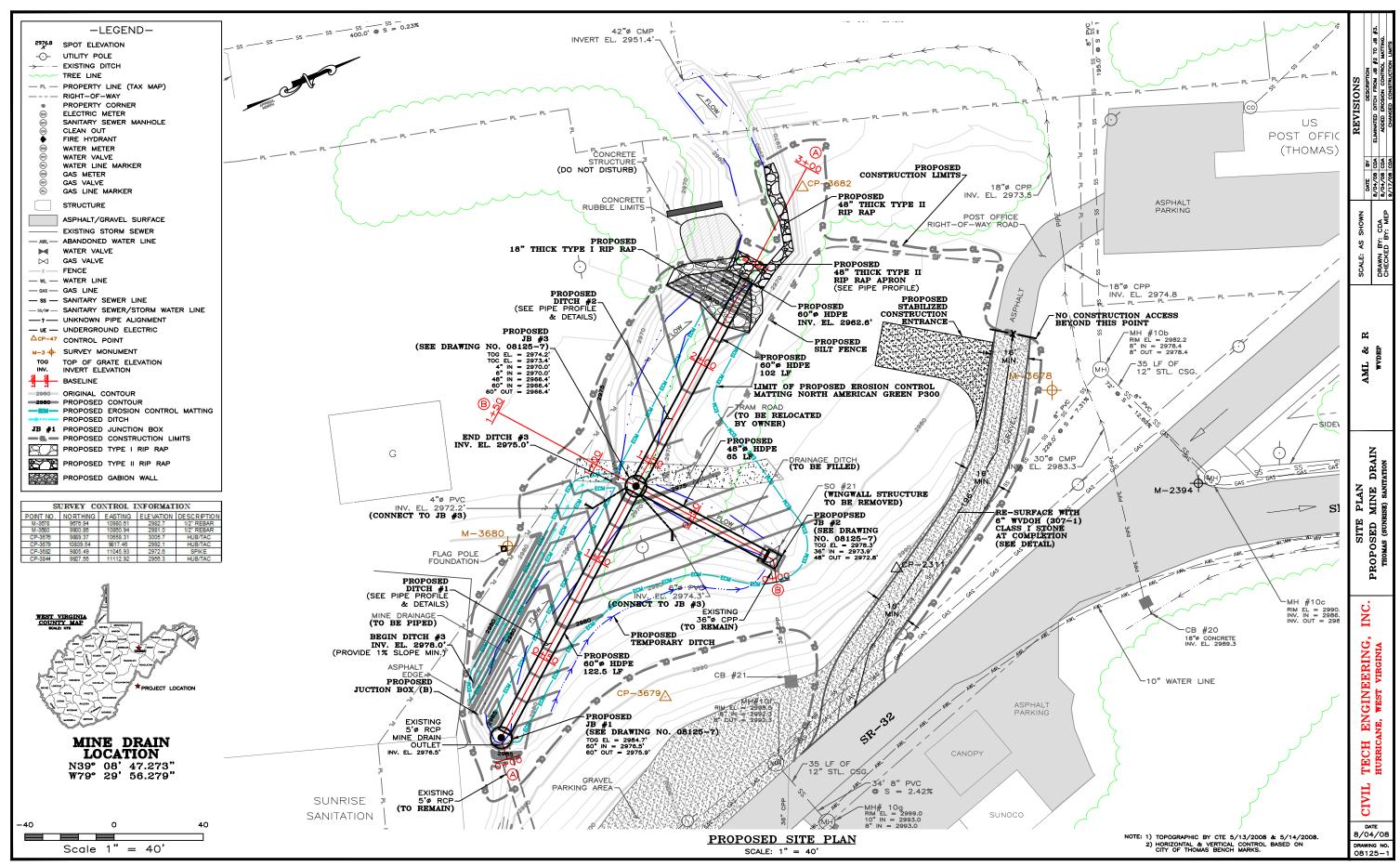
Prospect Valley Highwall #4 – DEP14433

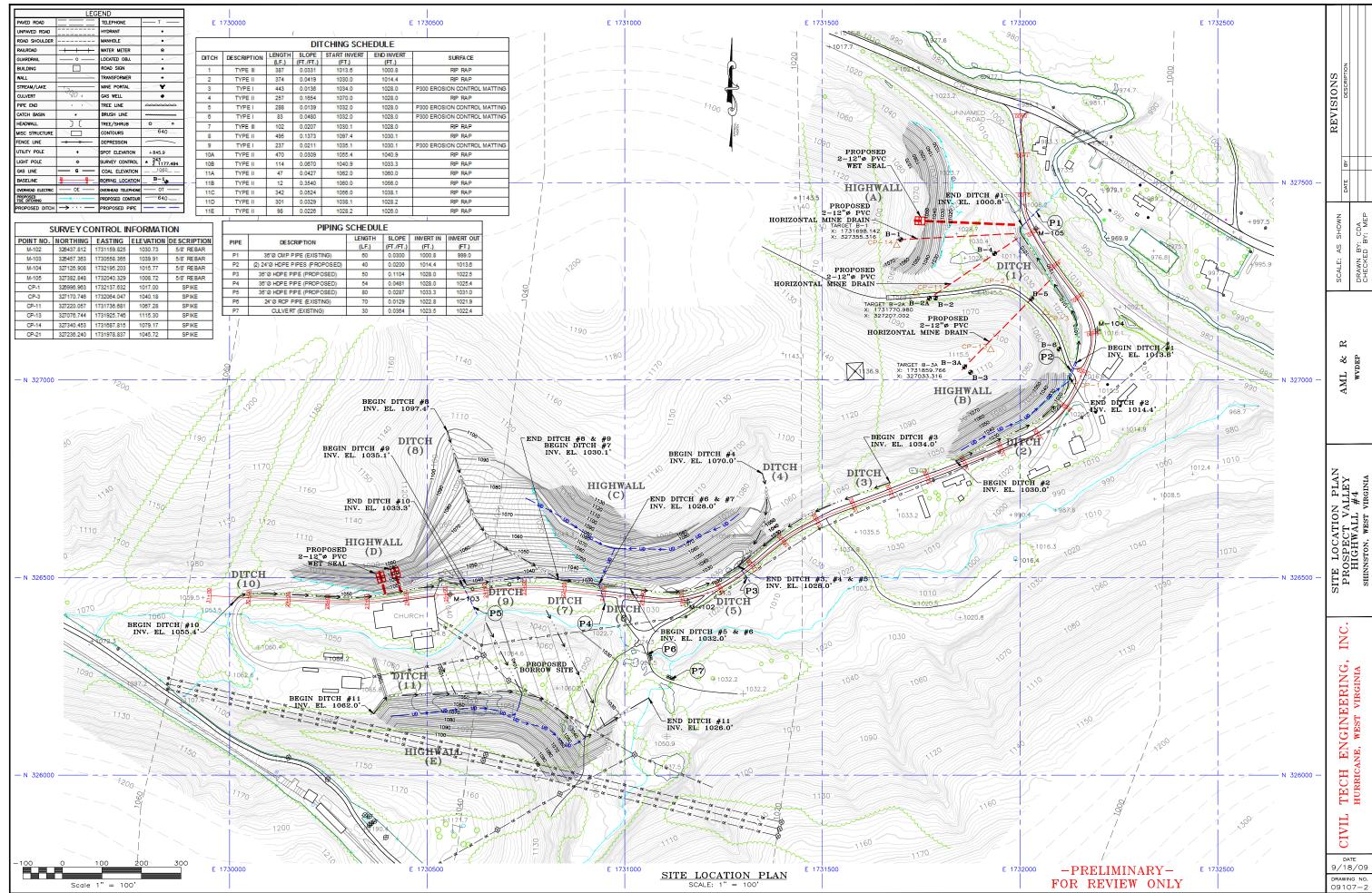


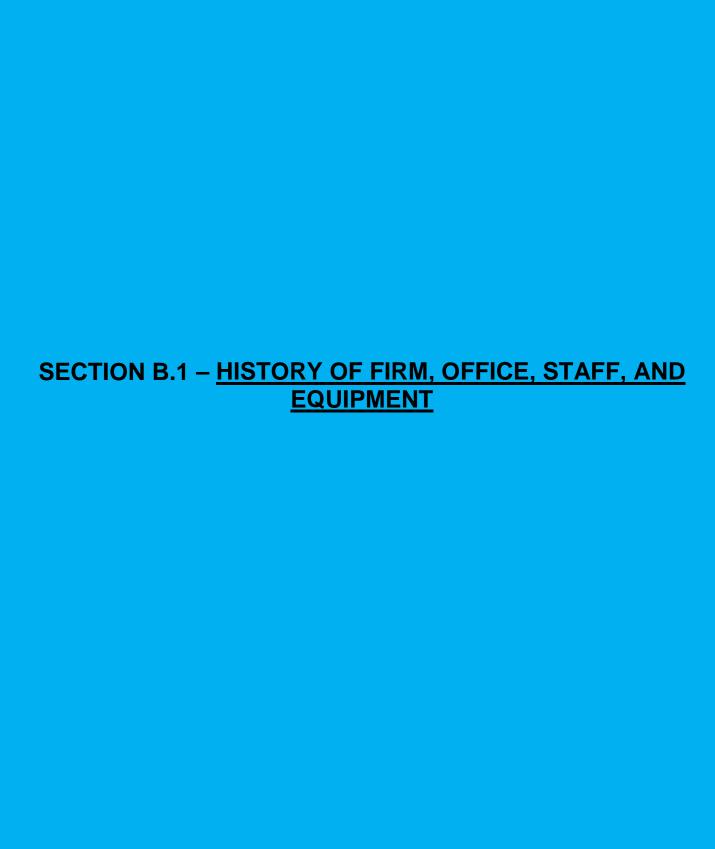
Prospect Valley Highwall #4 – DEP14433



Prospect Valley Highwall #4 – DEP14433







SECTION B.1 - HISTORY OF FIRM

<u>Services:</u> Civil Tech Engineering, Inc. has provided in-house professional engineering services since 1996 in the following areas of expertise.			
□ AML Design Services			
☐ Civil Design/Consulting			
☐ Wastewater Treatment and Collection			
□ Dam Safety, Design, and Rehabilitation			
Geotechnical Engineering			
 □ Surveying & Mapping □ Construction Contract Administration/Construction Monitoring 			
<u>Background:</u> Civil Tech Engineering Inc. was formed in 1996 by our principals, Mark and Jennifer Pennington. Prior to forming Civil Tech, Mark Pennington managed the branch office of Triad Engineering in St. Albans, West Virginia. Jennifer Pennington was a senior engineer at Triad. <u>Our principals have a combined experience of more than 70 years in civil and geotechnical engineering.</u>			
<u>Typical Projects and Capability:</u> Since forming Civil Tech, our staff has provided professional engineering services for a variety of clients and projects involving:			
□ AML Design Services			
□ 60 Dam rehabilitation and design projects			
☐ Site planning, development, and permitting			
Sanitary sewer/storm water segregation			
Storm water evaluation and design			
 □ Foundation investigation and design for buildings, water tanks, etc. □ Landslide investigation and design 			
□ Construction storm water pollution prevention plans and permitting			
☐ USACOE 404 Permitting.			
□ Topographic mapping to support our engineering projects			
□ Construction monitoring and testing for our design projects			
☐ Construction contract administration for our design projects			
☐ Cause of damage assessment of residential and commercial structures for insurance companies			
□ Subsidence Claims for BRIM			
<u>Submittal</u> : We have prepared this submittal to illustrate our complete capabilities in civil engineering. The reader will find information on a variety of projects intended to illustrate the quality of our work, complete capability, and qualifications to provide the engineering services for most civil engineering projects.			

SECTION B.1 - OFFICE, STAFF, & EQUIPMENT

Office: All work is performed from our office located in Hurricane, West Virginia. The physical address, telephone number, email address and staff information is provided below:

CIVIL TECH ENGINEERING, INC. 300A Prestige Drive Hurricane, West Virginia 25526

Phone 304-757-8094 Fax 304-757-8095

email <u>civiltech1@frontier.com</u>



Mark E. Pennington MS, PE, PLS Jennifer E. Pennington PE, PLS

Staff:

H Tom Brown PE – Senior Engineer Robert Kessler - Senior Geologist Charles Arthur Jr. - CADD H Neal Craig – CADD Scott Barnes – Senior Engineering Technician



- Resumes: Resumes for key personnel and staff follow this section.
- Equipment: Civil Tech Engineering, Inc. maintains complete in-house computer equipment and software to support our engineering services. This equipment is complimented by our electronic survey instruments and data collectors.

RESUME OF MARK E. PENNINGTON PRESIDENT – CIVIL TECH ENGINEERING INC. 11 - 20 - 17

EDUCATION:

B.S.C.E. - Civil Engineering - 1977 - West Virginia University M.S.C.E. - Civil Engineering - 1985 - West Virginia College of Graduate Studies

PROFESSIONAL REGISTRATION:

Registered Professional Engineer - West Virginia, Virginia, Ohio, and North Carolina Professional Surveyor - West Virginia

EMPLOYMENT HISTORY:

Principal Engineer -CIVIL TECH ENGINEERING, INC.

President February 1996 to Present

Chief Engineer -Heeter Construction, Inc., Spencer, WV

Vice President February 1996 to April 1997

Principal Engineer -Triad Engineering, Inc., St. Albans, WV

Vice President September 1980 to February 1996

Staff Engineer - American Electric Power Service Corporation

Civil Engineering Laboratory - May 1977 thru July 1978 Ash Utilization & Research - August 1978 to Sept. 1980

PERTINENT EXPERIENCE:

<u>General:</u> Mr. Pennington is one of the founders and president of Civil Tech Engineering Inc. In this capacity, he is responsible for overall management of the company, business development, proposal preparation, and the direction/technical review of all engineering work produced by the company.

After graduation from college, Mr. Pennington worked as a staff engineer for American Electric Power. He initially performed various engineering tasks for the Civil Engineering Lab in New Haven, West Virginia. He later joined the ash utilization and research section where was involved with landfill design and testing. Mr. Pennington authored the "Fly Ash Structural Fill Inspection and Training Manual" dated February 15, 1979 which is still in use today in the AEP system. Recently, Mr. Pennington managed compaction testing at the John Amos Plant Quarrier Landfill under contract with AEP.

Prior to establishing Civil Tech Engineering, Mr. Pennington served as Branch Manager of the St. Albans Office of Triad Engineering, Inc. In this capacity, he supervised and coordinated all projects performed by the St. Albans Office and managed over 60 employees including; engineers, geologists, technicians, designers, draftsmen, environmental technicians, surveyors, drillers, marketing, and clerical personnel. Mr. Pennington's areas of expertise include: general civil design, dam design/rehabilitation/safety, abandoned mine lands reclamation, geotechnical engineering, hazardous and municipal waste design/permitting, hydraulics, hydrology, groundwater studies, laboratory testing, surveying and mapping, drilling, construction inspection/testing, and construction project/contract administration. Mr. Pennington also reviewed and approved mine permits for the Logan Office of Triad Engineering.

RESUME OF MARK E. PENNINGTON CONTINUED

Mr. Pennington has provided and directed engineering services on nearly 2000 projects since forming Civil Tech Engineering, Inc. These projects have been performed for clients including: WVDEP-AML, BRIM, Steel of West Virginia, FMC, WVDNR, WVDEP, Dominion Generation, Duke Energy, Huntington Area Development Authority, City of Belington, Culloden PSD, City of South Charleston, City of Thomas, City of Pennsboro, Cedar Lakes Conference Center, Middleport Terminals, Contractors, Architects, Private Home Owners, and insurance companies. Mr. Pennington has been responsible for a wide range of engineering projects and services including:

- Non Nuclear Power Plant Civil Design Services
- Dam Inspection, Design, and Rehabilitation
- Surveying and Mapping
- Abandoned Mine Land Reclamation Projects
- Foundation Investigations for Industrial, Commercial, and Residential Structures
- Civil Design for Residential/Commercial Projects.
- Damage Investigation/Evaluation of Commercial/Residential Structures.
- Mine Subsidence Claims
- Municipal Landfill Design/Permitting
- Municipal Sewage Design and Permitting
- Water Line Extension
- Hazardous Waste Landfill Design/Permitting
- Groundwater Contamination Studies
- Stormwater Design and Control
- Erosion and Sediment Control Design and Permitting
- Construction Quality Control
- Construction Contract Administration

Non-Nuclear Power Plant Engineering Services: Mr. Pennington started his career as an employee of AEP working as a staff engineer in the civil engineering lab and ash utilization sections where he gained experience with civil design, materials testing, and geotechnical engineering associated with dam and power plant construction. Since forming Civil Tech he has been the engineer of record on power plant projects for clients including AEP, Dominion Generation, and Duke Energy. Typical services have included civil design, geotechnical engineering, surveying, permitting, and construction phase services. Projects have included: dams, railroad spurs, pavements, walls, dams, ammonia unloading, coal handling, ponds, cooling towers, and ash landfills. Mr. Pennington has also managed projects for Dominion at Mt. Storm Power Station since 2000.

Civil Design, Municipal Sewage and Water Service: Mr. Pennington was the design engineer for a \$ 3,000,000 sanitary sewer/storm water segregation project for the City of Thomas, West Virginia. He routinely assists the City of Thomas with the evaluation of storm water problems and has been responsible for the design and construction of a \$ 750,000 storm water improvement project which was completed in 2006. Phase I of the sanitary sewer/stormwater segregation project for the City of Thomas was completed in 2009. Past experience with general civil engineering including utility and roadway infrastructure, site grading, storm water, and permitting has included large commercial and private projects such as Southridge Centre (100 acres), First Church of God (10 acres), Ridgeline Developments (100 acres), Dudley Farms (50 acres), and recent 2 acre developments for hotel sites in Mineral Wells, and Weirton, West Virginia. He was recently responsible for the design of a 1 ½ mile water service extension for the town of Douglas, West Virginia.

RESUME OF MARK E. PENNINGTON CONTINUED

<u>Dam Safety:</u> Mr. Pennington is qualified in the field of dam safety, rehabilitation, and design. He is responsible for performing over 70 annual safety inspections for various dams and clients throughout West Virginia and surrounding states. Mr. Pennington has been responsible for the design of over 48 dam rehabilitation projects. His areas of expertise include the use of Roller Compacted Concrete (RCC) in the rehabilitation of dams. Mr. Pennington made a presentation at the ASCE fall technical conference in 1994 discussing the use of Roller Compacted Concrete as overtopping protection at the Anawalt Lake Dam. A partial list of typical dam design and rehabilitation projects for which Mr. Pennington has been responsible is provided below:

- Cacapon Park and Reservoir Dams, Cacapon State Park
- No. 2 Impoundment Dam Modification Union Carbide, Sistersville, WV
- Anawalt Lake Dam (new construction) WVDNR McDowell Co, WV
- Warden Lake Dam Modification WVDNR Hardy Co., WV
- Seneca Lake Dam Modification WVDNR Pocahontas Co., WV
- Teter Creek Lake Dam Modifications WVDNR Barbour Co., WV
- Belington Water Supply Dam Modifications City of Belington Barbour Co., WV
- FMC Tailings Pond Dam Modifications FMC Corp.- Bessemer City, NC
- Water Supply Dam Modifications Culloden PSD Culloden, WV
- Joyce Lake Dam Modifications Joyce Properties Clarksburg, WV
- Handley Dam WVDNR Pocahontas Co., WV
- Thomas Dam Rehabilitation City of Thomas, WV
- Old Pond 11 McClintic Wildlife Management Area
- Wells Lock and Dam Emergency Repairs, Elizabeth, WV
- Rollins Dam Emergency Repairs, Ripley, WV
- Handley Dam Modifications, Pocahontas County, WV
- Winterplace Dam, Raleigh County, WV
- Anawalt Flood Damage Repairs, McDowell County, WV
- Bailey and Lemley Dams, Monongalia County, WV
- Wilson Big Hollow Dam, Hampshire County, WV
- Burches Run Dam Height Reduction, Marshall County, WV
- Mt. Storm Power Station Dam, Grant County, WV
- Deegan and Hinkle Dam Modifications, Bridgeport, WV
- Mill Run Water Supply Dam, Mt. Top PSD, Mt. Storm, WV
- Canaan Valley Resort Water Supply Reservoir, Davis, WV
- Dawson Dam Modification, Dawson, WV
- Plum Orchard Dam Seepage Collection and Maintenance Bench, Fayette Co. WV
- Palestine Hatchery Reservoir Dam Repair, Elizabeth, WV

Construction: Mr. Pennington provided engineering and construction management services to Heeter Construction of Spencer, West Virginia in 1996 and 1997. He assisted Heeter with bidding, project management, and any technical problems requiring engineering expertise. During 1996 and early 1997 while with Heeter Construction, he served as the assistant project manager for the construction of a 10 million dollar flood control levee designed by the US Army Corps of Engineers for the City of Moorefield, West Virginia. Mr. Pennington has recently provided bidding and construction consultation as well as value engineering proposals, waste site design, and other engineering services for Heeter Construction.

RESUME OF MARK E. PENNINGTON CONTINUED

<u>US Army Corps of Engineers:</u> While with Triad Engineering, Mr. Pennington managed the Huntington District Corps of Engineers indefinite delivery geotechnical contract for a period of 3 years. During this time, he was responsible for the design of Charleston Haddad Riverfront Park, certification of Pond 16 (a small dam designed by the COE at McClintic WMA), landslide investigations, seepage/stability analysis for flood levees, and numerous re-analysis investigations for dams including Dillon and Beech City Dams in the State of Ohio.

<u>Mine Permitting/Surveying:</u> While employed by Triad Engineering, Mr. Pennington was responsible for review and approval of mine permitting and surveying operations conducted in the Logan, West Virginia Office of Triad.

WVDEP-AML Experience: Mr. Pennington has been responsible for the completion of more than 25 AML projects for the WVDEP since 2008. These projects have ranged in size from under \$ 250,000 to over \$ 1,000,000. He was also responsible for all AML work produced by the St. Albans office of Triad Engineering prior to resigning from the company in early 1996. His work included proposal preparation, planning, direction, management, and performance of all engineering activity associated with Triad's AML contract. Mr. Pennington was responsible for the successful completion of approximately 137 projects during the period from 1990 to 1996. His expertise includes the abatement of mine related problems associated with subsidence, blasting, landslides, mine drainage, refuse fires, mine fires, mine shafts, drainage, impoundments, and groundwater/surface water pollution. Since leaving Triad and forming Civil Tech, he has also been responsible for the investigation of mine subsidence claims throughout West Virginia for the State Board of Risk and Insurance Management (BRIM) and various insurance companies including State Farm and Nationwide. Prior to working with the WVDEP - AML, he worked with the Federal Office of Surface Mining on similar projects.

<u>Insurance and BRIM Investigation:</u> During Mr. Pennington's career, he has provided professional engineering services to insurance companies including State Farm, Nationwide, St. Paul, Westfield, Travelers, Allstate, Prudential, Hartford, and others. From 2002 to 2005, Mr. Pennington also investigated numerous mine subsidence claims for BRIM. Services provided to insurance companies have included examination/evaluation of damage to various structures including:

- Light Commercial Buildings
- Residential Houses
- Manufactured Houses
- Small Bridges
- Retaining/Basement Walls
- Pavements/parking lot surfaces
- Chimneys/fireplaces
- Municipal Concerns

Mr. Pennington is experienced in the assessment of damage caused by wind, flood, snow, erosion, fire, leaking utility lines, earth movement (problem clay soils, settlement, landslides, etc.), vehicle impact, structural defects/failure, and manufacturing defects (related to housing), blasting and subsidence related to mining.

RESUME OF JENNIFER E. PENNINGTON

PRINCIPAL ENGINEER 11.20.17

EDUCATION

BSCE - Civil Engineering - 1988 - University of Kentucky

CERTIFICATION/REGISTRATION

Registered Professional Engineer - West Virginia Licensed Land Surveyor - West Virginia

EMPLOYMENT HISTORY

Principal Engineer Civil Tech Engineering, Inc., St. Albans, WV

March 1996 to Present

Senior Engineer Triad Engineering, Inc., St. Albans, WV, 1988 to 1996

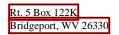
PERTINENT EXPERIENCE

Ms. Pennington has served as a team member and project manager on AML, civil design, and geotechnical projects involving abandoned mine land reclamation, subsurface investigation, geotechnical analysis, and dam design. She has been responsible for technical analysis and review of all AML projects completed by Civil Tech since 2008. She was responsible for all dam design and rehabilitation projects, and projects performed for the Huntington District Corps of Engineers (HDCOE) while employed by Triad Engineering during 1988- 1996. Work performed on those projects and current projects for which she is responsible at Civil Tech Engineering include:

- Geotechnical Investigation and Analysis
- Civil Design
- Hydrologic/hydraulic analysis using HEC-1, HEC-2, and Dams2 Computer Programs
- Stability Analysis using UTEXAS2, PCStable5, and HDCOE Hand Check Methods
- Seepage Analysis using graphical flow net and HDCOE mathematical methods
- Preparation of Project Narratives, Design Drawings, Specifications, Construction Schedules, Erosion and Sediment Control Plans, and Construction Cost Estimates.

Since the company was formed, Civil Tech Engineering has performed numerous dam safety inspections, dam breach analysis and risk assessments, geotechnical studies, and dam rehabilitation design projects. Civil Tech has also completed 20 AML projects since 2008. Ms. Pennington has been responsible for project management on these and many other large scale projects including geotechnical and foundation investigations. She is proficient in organizing and maintaining scheduling during the course of long term projects. She has complete familiarity with all of the above mentioned in house computer programs as well as Word, Excel, AutoCad, Eagle Point, Flowmaster, HEC-HMS, Dams2, HEC1 and II, HECRAS, and Hydrocad.

Ms. Pennington is responsible for technical review of all work produced by Civil Tech. In this capacity, she reviews and approves all work produced by the company including AML, civil design, and dam safety projects.



H. Thomas Brown

Objective

Engineering Management

Work experience

2004-2017 (Retired)

City of Bridgeport

Bridgeport, WV

Director of Community and Public Works

- Managed City Departments: Engineering & GIS, Public Works, Public Utilities, Community Development and Parks & Recreation.
- Employee Evaluations: GIS Manager, Office Manager, Department Directors
- Prepared Annual Budget for Engineering/GIS Department
- Reviewed and Recommended Department Directors Budgets
- Managed Engineering Consultants and Contracts
- Prepared, Reviewed, Managed and Inspected all Construction Contracts

1991-2003

Harman Construction, Inc/West Virginia Paving, Inc Grafton/Charleston, WV

Senior Estimator (2001-2004)

- Prepare and sign construction cost estimates: Paving, Roadway Repair & New Construction, Excavation, Utility (water, sewer & storm drainage) construction & repair and Retaining wall.
- Review and sign Contracts, Change orders, and Sub-Contracts
- Purchase Materials

Grafton Office Manager (1998-2001)

- Prepare, review, and sign: Cost proposals, Contracts, Change Orders, and Sub-Contracts
- Purchase Materials
- Schedule: Crews and Sub -Contractors
- Close Branch Office

Senior/Chief Estimator (1991-1998)

- Prepare, review and recommend for signature: Cost proposals, Contracts, Change Orders, and Sub-Contracts
- Manage: Company Safety Program, Equipment Maintenance and repair, and
- Schedule: Crews and Equipment

Project Engineer

- Prepare, review and recommend for signature: Engineering Proposals and Contracts
- Manage: Engineer, Technicians, inspectors and CAD system
- Schedule: Project designs, Project Inspections, and Sub-Consultants
- Prepare plans, specifications and contract documents: Commercial and Residential developments, Roadway and Intersection modifications and improvements, utility improvements and drainage improvements; including all studies and calculations required for excavation, grading, water, sewer, storm drain, storm water management, paving, side walk, curb and sediment control plans

1986-1987 Trible Construction, Inc.. Manassas, VA

Estimator

- Prepare, review and recommend for signature: Cost proposals, Contracts, Change Orders, and Sub-Contracts: Utility, Grading and Site Construction
- Purchase Materials
- Market Company

1986-1986 The Driggs Corporation. Capitol Heights, MD

Estimator

• Prepare, review and recommend for signature: Cost proposals for excavation and utility projects

1985-1986 Marvaco, Inc.. Capitol Heights, MD

Senior/Chief Estimator

 Prepare, review and recommend for signature: Cost proposals for excavation and utility projects

1984-1985 CMX Industrial Ceramics.. Bridgeport, WV

Manager

• Manage: Coal preparation plant rebuild shop

1983-1984 Hopke Company, Inc... Alexandria, VA

Estimator

Prepare, review and recommend for signature: Cost proposals for utility projects

1981-1983 Soil Conservation Service Morgantown, WV

Technician

· Economic and hydraulic study preparation

1972-1981 Various

• Construction, Retail and Church Service

Education	December 1982	West Virginia University	Morgantown, WV
	Civil Engineering		
	• BSCE		
Accreditations	West Virginia Profession	nal Engineer License	
	West Virginia Profession	nal Surveyor License	
	_	-	
Professional	American Society of Civ	il Engineers	
memberships	N 1 G . 1W . W		
	North Central West Virg	ınıa Hıghway Engineers	

RESUME OF ROBERT R. KESSLER GEOLOGIST 11 - 11 - 17

EDUCATION:

B.S. - Geology - 1965 - Ohio University

Post Graduate Work - 1965 to 1966 - Geology - Ohio University

B.S. - Mathematica - 1980 - University of Charleston

B.S. - Mathematics - 1980 - University of Charleston

CERTIFICATIONS:

Certified Aggregate Inspector - WVDOH Certified Concrete Inspector - WVDOH

Certificate of Completion - Wetland Training - WVDOH

Certificate of Completion - Techniques for Pavement Rehabilitation - WVDOH

Certificate of Completion - Aerial Photo Interpretation - WVDOH

Certificate of Completion - Alkali Silica Reactivity in Concrete - FHWA

EMPLOYMENT HISTORY:

Geologist - Civil Tech Engineering, Inc. 1996 – present

Responsible for all geologic studies/investigations.

Typical projects include mining subsidence investigations, Teter Creek Dam, Thomas Dam, Old Pond 11 Dam, and Seneca Dam, Cacapon State Park Dam Modifications.

Geologist - Aggregate Group, West Virginia Division of Highways

Group Leader August 1998 to Present, Materials Control Division

Division Reorganization

Geologist - All Materials Testing Sections & Roadway Analysis

Testing Group Leader West Virginia Division of Highways

April 1992 to August 1998, Materials Control Division

Division Reorganization

Geologist - West Virginia Department of Transportation

Technical Advisor January 1986 to April 1992, Materials Control Division

Division Reorganization

Geologist - Aggregate Section, West Virginia Department of Highways

Assistant Director May 1984 to January 1986, Materials Control Division

RESUME OF ROBERT KESSLER CONTINUED

Geologist - Aggregate Section, West Virginia State Road Commission

Section Leader May 1969 to May 1984, Materials Control Division

Geologist - Aggregate Section, West Virginia State Road Commission

July 1966 to May 1969, Materials Control Division

PERTINENT EXPERIENCE

Mr. Kessler has performed geologic study on eleven mine subsidence claims investigated by Civil Tech for BRIM since 1996. Geologic investigation has included review of available mining maps and the county geologic reports providing important information concerning mining history and geologic formations and mine subsidence potential.

In addition to his duties reviewing mine subsidence claims, Mr. Kessler has also been responsible for the geologic study and investigation for over 40 dam rehabilitation projects in West Virginia.

Mr. Kessler has an intimate knowledge of geologic formations in the state of West Virginia and has recently authored and published a book on the geology of the Kanawha Valley.

RESUME OF CHARLES D. ARTHUR, Jr. SENIOR DESIGNER 10 - 01 - 14

EDUCATION:

June 2000 **Benjamin Franklin Career and Technical Education Center** Dunbar, WV

Computer-aided Drafting/1080 hours

Honor roll in computer drafting, experience with MicroStation 95/SE, AutoCAD

2000, Windows 98 SE, 3D drawings, mechanical/architecture drawings,

isometric/oblique drawings and orthographic projections

June 1997 **Benjamin Franklin Career and Technical Education Center** Dunbar, WV

Welding/1,320 hours

Honors included a second place finish in the State Welding Competition, Elkins, WV, April 1997 sponsored by the Vocational Industrial Clubs of America,

Certificate of Recognition and experience with SMAW, GMAW, GTAW and TB

Dec 1993 Richmond Technical Center Richmond, VA

Welding/72 hours

Honor roll in welding, experience with SMAW, GMAW, GTAW and TB

June 1990 **Dunbar High School** Dunbar, WV

Diploma

EMPLOYMENT HISTORY

June 2000 to Civil Tech Engineering, Inc. Hurricane, WV

Present Senior Designer

Responsible for preparation of design drawings using Autocad Civil3D software,

survey party chief, and evaluation of mine maps and subsidence.

July 1999 to **Custom Upholstery** St. Albans, WV

June 2000 Helper/Deliverer Part Time

Experience keeping track of shop inventory and related sales, tearing down

furniture to be upholstered and transporting furniture

Aug 1997 to American Commercial Barge Line Jeffersonville, IN

June 1999 Deck Hand

Experience rigging barges together, making locks, chipping, grinding, painting,

working in close quarters and maintaining tug boats/chemical barges

Jan 1995 to **Pizza Hut Inc.** South Charleston, WV

Aug 1997 and Shift Manager

RESUME OF CHARLES D. ARTHUR, Jr. Continued

July 1989 to

June 1993

Experience updating customer data, completing close of daily receipts, insuring that paperwork balances, operating computerized cash register and possessing exemplary customer and employee relations

June 1993 to First Choice Equipment

Ashland, VA

Dec 1994 Mechanic

Experience maintaining tractor-trailers, various welding jobs, paint preparation and painting

PERTINENT EXPERIENCE:

Since joining Civil Tech in 2000, Mr. Arthur has been responsible for preparation of design drawings using Autocad for a variety of civil engineering, AML, mine subsidence claims, hotel site development, and dam modification projects. A partial list of projects including recent AML experience follows:

- Cacapon Dam Modifications
- ➤ Palestine Hatchery Reservoir Dam Repairs
- > Dawson Dam Modifications
- ➤ Plum Orchard Seepage Collection and Maintenance Bench
- ➤ Greenbrier River Trail Landslide Repair
- ➤ North Bend Rail Trail Erosion Repairs
- ➤ Old Pond 11 Dam Rehabilitation
- ➤ Anawalt Flood Damage Repair
- > Teter Creek Dam Modification
- ➤ Wells Lock and Dam Repair
- ➤ Wilson Big Hollow Dam
- ➤ Winterplace Dam Modification 1 and 2.
- Cedar Lakes Dam No. 2 Flood Damage Repair
- ➤ Bailey and Lemley Dam Modifications
- > Deegan and Hinkle Dam Modifications
- Thomas (Sunrise Sanitation) Mine Drainage Project (DEP14171).
- ➤ Thomas Sunrise Sanitation Mine Blowout (Emergency Project).
- ➤ Prospect Valley Highwall #4 (DEP 14433).
- Winifrede (McFann) Portals (DEP 14479).
- ➤ Pines County Club (Ponds) Subsidence (DEP14633).
- ➤ Douglas Water Line Extension (DEP14951).
- Cambria Portals & Drainage Design (DEP 14845).
- ➤ Birds Creek Portals (DEP 15065).
- ➤ Nellis (Smith) Drainage (DEP15002).
- ➤ Zebb's Creek Highwall #2 (DEP14991).
- ➤ Hawkinberry Hollow Portals and Drainage (DEP 15220).
- > Fairfield Inn and Suites, Weirton, WV
- ➤ Holiday Inn Express, Mineral Wells, WV
- > Thomas Sunrise Sanitation Mine Drain
- > Thomas Storm Water Improvements
- ➤ Thomas Sewer/Storm Water Segregation Project

- ➤ Amish Exchange
- ➤ Mine Subsidence and Insurance Investigations
- > Landslide corrections
- > Geotechnical Investigations

Mr. Arthur also serves as survey crew chief for property and topographic mapping projects for Civil Tech Engineering. During his employment he has also provided construction inspection and testing services for civil and dam modification projects and has inspected subsurface investigation projects for geotechnical projects.

Mr. Arthur is also certified by the State of West Virginia as a pre-blast inspector.

RESUME OF SCOTT T. BARNES SENIOR ENGINEERING TECHNICIAN – CONSTRUCTION MANAGER 11.20.17

EDUCATION:

Great Bridge High School

Great Bridge, Virginia 1973

North Carolina Commercial Contractor's License.

North Carolina Real Estate License.

North Carolina Department of Transportation Concrete Technician.

EMPLOYMENT HISTORY

Resident Technician

Civil Tech Engineering Inc.

September 2016 – Present

Resident Technician for Cacapon Dam Modifications. Responsible for daily oversight of a \$ 1.7 Million construction project and reporting. Served as owner and engineer's site representative. Project was completed on time and within budget.

Superintendent

Housecraft, LLC, College Park, Maryland.

June 2014 – May 2015

76 Kalorama Circle, Washington, D.C.; 3.2 million dollar renovation and addition which included a substantial amount of concrete work. The owners of the home terminated the contract with Housecraft in May of 2015, but requested that I help to complete the renovations. I remained on the job until January of 2016.

Superintendent

F.D. Neal Construction, Woodstock, Virginia *June 2012 – May 2013*

Foundation repairs, soil retention, new construction utilizing A.B. Chance Helical piers

Superintendent

Southland Concrete, Dulles, Virginia

June 2004 – March 2012

Concrete construction subcontractor, superintendent on the following:

Tysons II, ten floor, steel frame office building.

Steeplechase, four tilt-ups- office/warehouses. Tucon Construction.

Lafayette, two tilt-ups-office/warehouses. Utica Contracting.

Avalon, three tilt-ups – office/warehouses. Tucon Construction.

DEA Data Center, tilt-ups. Hitt Contracting.

US Pharmacopeia, concrete frame multi-story parking garage and office. DPR.

Northwoods, six tilt-ups, office/warehouses.

RESUME OF SCOTT T. BARNES CONTINUED

Wisconsin Place, concrete frame 15 story apartment and below grade parking. I was one of three Southland Concrete superintendents on this job. Turner Construction.

Woodgrove High school, steel frame and masonry. Davis Construction.

Nap of the Cap, two precast buildings on CIP walls and two story steel frame office. Hitt Contracting.

Vida Fitness, concrete frame three story. Forrester.

United Therapeutics, concrete frame, seven floors. I completed the last four months of this job. DPR.

Inova Fairfax Hospital, concrete frame, 11 floors. I completed the last five months of this job. Turner Construction.

Superintendent

Federal Concrete, Centerville, Virginia *August 2003 - June 2004* Residential stamped concrete.

Superintendent

Southland Concrete, Dulles, Virginia *October 2002 – August 2003* Five tilt-ups.

Superintendent

Cleveland Cement, Richmond, Virginia May 2001 – September 2002

Richmond Convention Center, steel frame, concrete frame, column up to 76' tall, walls, SOG. Turner Construction.

Superintendent

Southland Concrete, Dulles, Virginia. January 2000 - May 2001 Steel frame and tilt-ups.

Self Employed Concrete Subcontractor

S. T. Barnes, Inc., Jarvisburg, North Carolina.

1992 – January 2000

Commercial concrete construction with sales of 2 million per year. Owned a 28-meter concrete pump, thirty employees. Cell tower mat foundations, two museums, schools, foundation for the Cape Hatteras Lighthouse.

Manager, Concrete Division

Outer Banks Contractors, Kitty Hawk, North Carolina.

1983 - 1992

Commercial concrete, twenty employees, manager of two small ready mix plants, forming and finishing crew, curb and gutter crew.

RESUME OF SCOTT T. BARNES CONTINUED

Superintendent

Housecraft, LLC, College Park, Maryland.

June 2014 – May 2015

76 Kalorama Circle, Washington, D.C.; 3.2 million dollar renovation and addition which included a substantial amount of concrete work. The owners of the home terminated the contract with Housecraft in May of 2015, but requested that I help to complete the renovations. I remained on the job until January of 2016.

Superintendent

Southland Concrete, Dulles, Virginia

June 2004 – March 2012

Concrete construction subcontractor, superintendent on the following:

Tysons II, ten floor, steel frame office building.

Steeplechase, four tilt-ups- office/warehouses. Tucon Construction.

Lafayette, two tilt-ups-office/warehouses. Utica Contracting.

Avalon, three tilt-ups – office/warehouses. Tucon Construction.

DEA Data Center, tilt-ups. Hitt Contracting.

US Pharmacopeia, concrete frame multi-story parking garage and office. DPR.

Northwoods, six tilt-ups, office/warehouses.

Wisconsin Place, concrete frame 15 story apartment and below grade parking. I was one of three Southland Concrete superintendents on this job. Turner Construction.

Woodgrove High school, steel frame and masonry. Davis Construction.

Nap of the Cap, two precast buildings on CIP walls and two story steel frame office. Hitt Contracting.

Vida Fitness, concrete frame three story. Forrester.

United Therapeutics, concrete frame, seven floors. I completed the last four months of this job. DPR.

Inova Fairfax Hospital, concrete frame, 11 floors. I completed the last five months of this job. Turner Construction.

Superintendent

Federal Concrete, Centerville, Virginia *August 2003 - June 2004* Residential stamped concrete.

Superintendent

Southland Concrete, Dulles, Virginia *October 2002 – August 2003* Five tilt-ups.

Superintendent

Cleveland Cement, Richmond, Virginia *May 2001 – September 2002*

RESUME OF SCOTT T. BARNES CONTINUED

Richmond Convention Center, steel frame, concrete frame, column up to 76' tall, walls, SOG. Turner Construction.

Superintendent

Southland Concrete, Dulles, Virginia. *January 2000 - May 2001* Steel frame and tilt-ups.

Self Employed Concrete Subcontractor

S. T. Barnes, Inc., Jarvisburg, North Carolina. 1992 – January 2000

Commercial concrete construction with sales of 2 million per year. Owned a 28-meter concrete pump, thirty employees. Cell tower mat foundations, two museums, schools, foundation for the Cape Hatteras Lighthouse.

Manager, Concrete Division

Outer Banks Contractors, Kitty Hawk, North Carolina.

1983 - 1992

Commercial concrete, twenty employees, manager of two small ready mix plants, forming and finishing crew, curb and gutter crew.



$\underline{\textbf{SECTION B.2}} - \underline{\textbf{CIVIL DESIGN}}$

Des	ign: Our principals and key personnel have been responsible for developing civil
desig	gn drawings including site grading plans, highway access, storm water and mine drain
-	ng and controls, highwall and portal reclamation, storm water rail road crossings,
	ion control, sanitary sewer collection and treatment, lift stations, retaining walls,
	ing layout, sidewalks, handicap access, utilities, permits, specifications, and bid
-	
	ments for various projects including:
	Thomas Sunrise Sanitation Mine Drain
	Thomas Sunrise Sanitation Mine Blowout
	Prospect Valley Highwall #4
	Winifrede (McFann) Portals
	Pines Country Club (Ponds) Subsidence.
	Douglas WL Extension
	Cambria Portals & Drainage
	Zebb's Creek Highwall #2
	Bird's Creek Portals Design
	Nellis (Smith) Drainage
	Hawkinberry Hollow Portals Design Witcher Creek Portals & Refuse
	Ridenour Complex Prochalm (Fyons) Portals & Drainage
	Breaholm (Evans) Portals & Drainage 48 Dam Rehabilitation Projects in WV and NC
	· ·
	Storm/Sanitary Segregation, City of Thomas, WV Storm Water Improvements, Thomas, WV
	First Church of God, Charleston, WV
	Mt. Vernon Baptist Parking Lot Expansion
	Holiday Inn Express, Mineral Wells, WV
	Fairfield Inn & Suites, Weirton, WV
	Various large residential developments
	Robert C. Byrd Federal Court House Sidewalks, Utilities, and Drainage
	Haddad Riverfront Park, Charleston, WV
	Southridge Centre 100 acre Commercial Development
	Ridgeline 50 acre Commercial Development
	Commercial developments including: Amish Exchange, Wendy=s, Texas Steakhouse, Kenny
	Rogers, etc.
	Various Hazardous Waste and Sanitary Landfills
	Various Abandoned Mine Land Projects
	Various Landslide Stabilization Projects throughout West Virginia
	Means and Methods, Pipe Crossings – CSX Railroad, Rt. 10, Rita to Midway Plaza Highway
	Project
	Bluestone Lake Boat Launch and Parking Design
	Laurel Lake Fishing Pier Design
	Dents Run WMA Shooting Range Design

Statement of Qualifications Civil Tech Engineering, Inc. Last Revised June 2018

Cost	Estimating: Cost estimates are routinely prepared for our civil design projects.				
Most 1	Most recent experience in preparing cost estimates includes:				
	Thomas Sunrise Sanitation Mine Drain – Project Cost \$ 325,000				
	Thomas Sunrise Sanitation Mine Blowout – Project Cost \$ 250,000				
	Pines Country Club (Ponds) Subsidence – Project Cost \$ 2.6 million				
	Winifrede (McFann) Portals – Project Cost \$ 450,000.				
	Cambria Portals - Project Cost \$ 682,000				
	Douglas WL Extension – Project Cost \$ 250,000				
	Storm/Sanitary Segregation Project, City of Thomas - Project Cost \$ 3 million				
	Storm Water Improvements, City of Thomas - Project Cost \$ 750,000				
	Ansinelli Retaining Wall Replacement, Private - Project Cost \$ 50,000				
	Fleming Street Stabilization, City of Monongah - Project Cost \$ 70,000				
	Mt. Vernon Baptist Parking Lot Expansion – Project Cost \$ 50,000				
	Holiday Inn Express, Mineral Wells – Project Cost Unknown				
	Teter Creek Dam Modifications, WVDNR, Wildlife Resources - Project Cost \$ 1.2 Million				
	Old Pond 11, WVDNR, Wildlife Resources - Project Cost \$ 150,000				
	Moncove Dam Rehabilitation, WVDNR - Project Cost \$ 600,000				
	Burches Run Dam Rehabilitation, WVDNR - Project Cost \$ 600,000				
	Deegan and Hinkle Dam Modifications – Project Cost \$ 1.5 Million				
	Bailey and Lemley Dam Modifications – Project Cost \$ 1.2 Million				
	Wilson Dam Modification – Project Cost \$ 250,000				
	Belington Dam Modification – Project Cost \$ 50,000				
	Mill Run Dam Modification – Project Cost \$ 200,000				
	Stony River Dam Breach – Project Cost \$ 250,000.				
	Temperature and Flow Monitoring Weir – Project Cost \$ 250,000				
	Jimmy Lewis Dam Modification – Project cost \$ 500,000				
	Pipestem and Berwind Dam Modifications – Project Cost \$ 1,200,000				
	Cacapon Dam Modifications – Project Cost \$ 1,300,000				

Our engineers have extensive experience in cost estimating and bidding gained on projects which were bid and successfully constructed. This experience was gained by Mark Pennington estimating costs for construction projects for competitive bidding while working for Heeter Construction, of Spencer, West Virginia. See Resume for Mark Pennington. Hayward Phillips, our senior construction inspector, has over 55 years experience estimating and building all types of construction. Our construction experience is invaluable in the development of accurate cost estimates for budgeting, and development of practical designs which are Aconstructable@.

Construction Contract Administration: We have, or are providing contract administration on virtually all of the civil projects listed herein. Our experience has been gained administering contracts on projects ranging in size and complexity from a few hundred thousand to upwards of 30 million plus for the Southridge Centre/Ridgeline developments. Mark Pennington also served as assistant project manager on a 10 million dollar flood levee construction project for the City of Moorefield, West Virginia in 1996,

Bust Ite	East Nevided valie 2010	
	while employed with Heeter Construction.	
	<u>Civil Project Photographs:</u> Photographs of some of our recent projects follow this section of the submittal.	
	<u>Sample Project Drawings:</u> Typical design drawings from some of our projects are enclosed to illustrate our capabilities.	



FIRST CHURCH OF GOD - CHARLESTON, WV PROJECT COST UNKNOWN - COMPLETE 2001

- TOPOGRAPHIC MAPPING
- SUBSURFACE INVESTIGATION
- STORM WATER CONTROLS
- **PERMITTING**
- **UTILITY LOCATION & DESIGN**
- WASTE WATER TREATMENT – RECIRCULATING SAND **FILTER**
- PAVEMENT AND WALKS
- PLANS AND SPECIFICATIONS



Erosion Repair – Rip Rap Armored Ditch



New Storm Drains and Catch Basins

STORM WATER IMPROVEMENTS – THOMAS, WV

PROJECT COST \$ 750,000 - COMPLETE 2007

- TOPOGRAPHIC MAPPING
- STORM WATER CONTROLS & EROSION REPAIR
- **PERMITTING**
- PLANS AND SPECIFICATIONS
- **BIDDING**
- CONSTRUCTION CONTRACT ADMINISTRATION

CIVIL TECH ENGINEERING INC. "Attention to Detail"



HOLIDAY INN EXPRESS – MINERAL WELLS, WV PROJECT COST UNKNOWN – COMPLETE 2007

- ☐ TOPOGRAPHIC MAPPING
- ☐ STORM WATER CONTROLS
- □ PERMITTING
- ☐ UTILITY LOCATION & DESIGN
- □ WASTE WATER LIFT GRINDER STATION DESIGN
- □ PAVEMENT AND WALKS
- □ PLANS AND SPECIFICATIONS

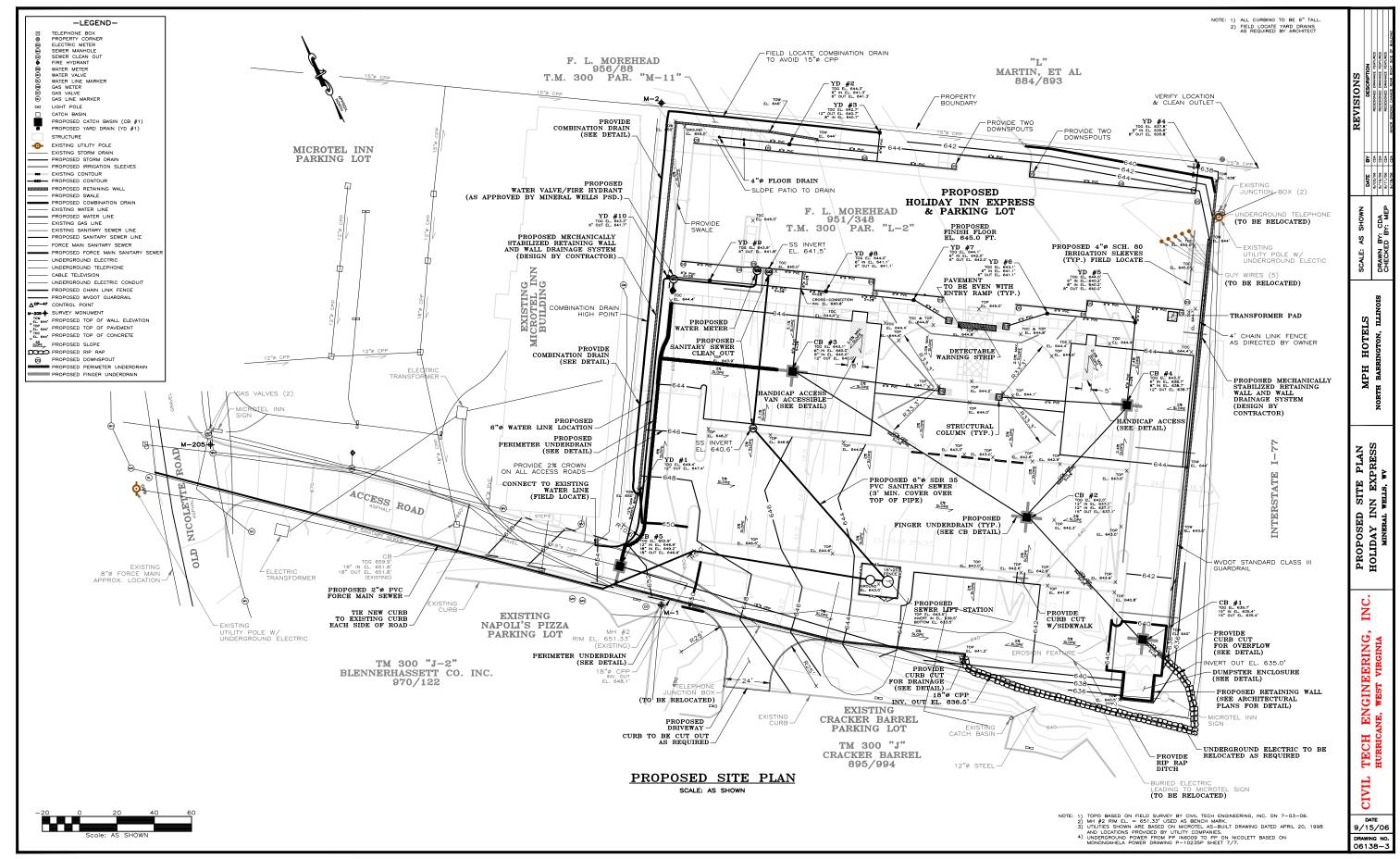


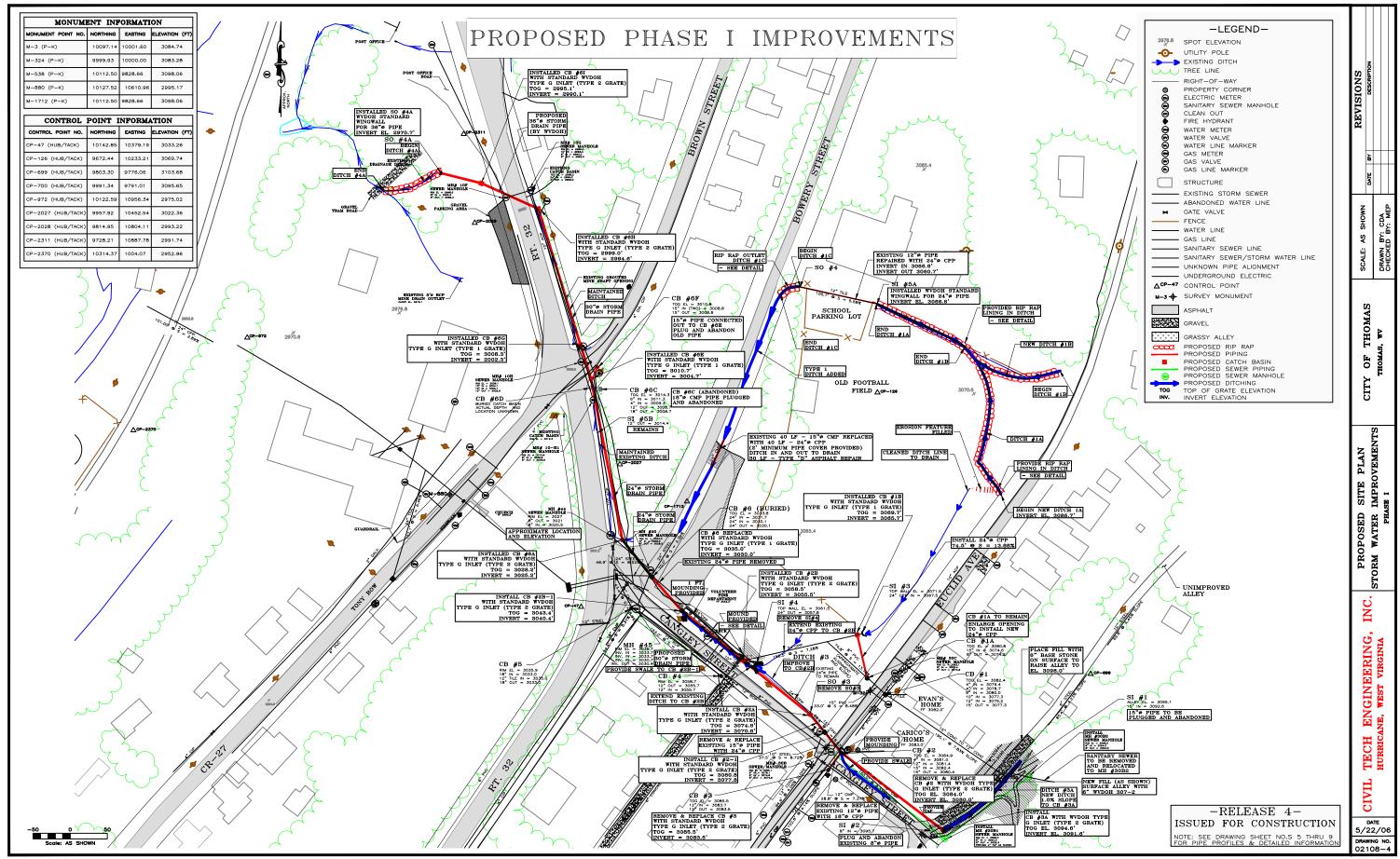


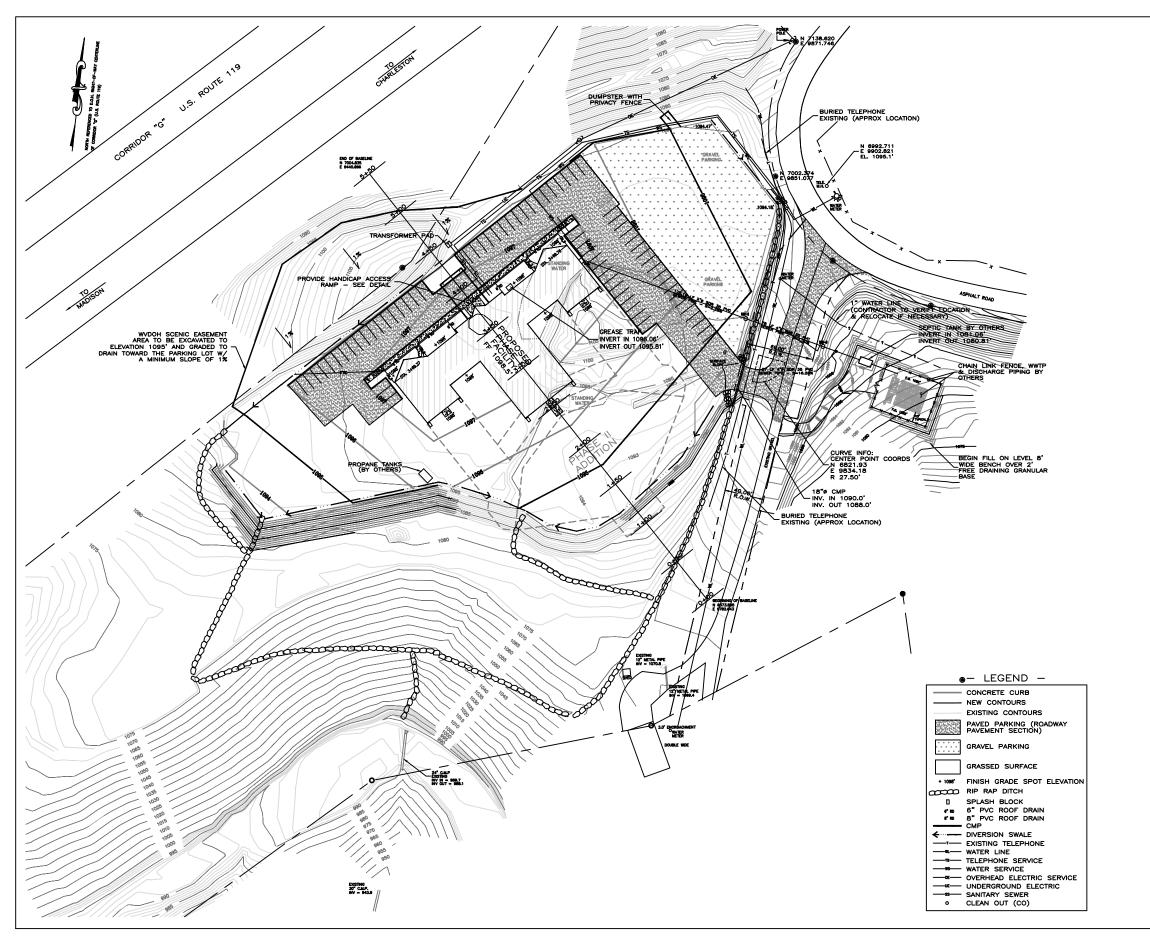
MT. VERNON BAPTIST PARKING LOT EXPANSION – HURRICANE, WV

PROJECT COST \$ 50,000 - COMPLETE 2007

- ☐ TOPOGRAPHIC MAPPING
- ☐ STORM WATER CONTROLS
- □ PERMITTING
- □ PAVEMENT AND WALKS
- □ PLANS AND SPECIFICATIONS







REVISIONS					
DATE	BY	DESCRIPTION			
6/6/00	BDJ	CHANGED SEWER PIPE LOCATION EXITING THE BUILDING			
9/20/00	RKM	RELOCATED WATER AND SEWER LINES ENTERING/EXITING BUILDING. ADDED WWTP SURVEY/PLANT LOCATION			

SITE WORK GENERAL NOTES:

- cavation: Excavation of both soil and rock will be necessary to develop the site. Hard rock kely be encountered in the excavation. Blasting to facilitate the excavation, if allowed, must pproved by Engineer. Trenching shall be performed in accordance with OSHA regulations. Into excavations deeper than 5 feet is not allowed without approved shoring or sloping.
- 4. Fill: Fill shall consist of suitable soil or rock materials available from site excavations as approved by the Engineer. Fill shall be placed in maximum 9 inch loose, level lifts and compacted to 95% of the maximum dry density as determined by ASTM D998, or as approved by the Engineer. The moisture content of the fill material shall be plus or minus 2% of optimum. Fill shall not be placed in standing water or on frozen ground. Control of water where it be surface or groundwater shall be the responsibility of the Contractor. Subgrade must be approved by the Engineer before fill placement begins. Care shall be taken not to ever—compact the in—situ alog soils during fill placement. Fill shall not be placed on existing fill areas due to potential for landsides to develop.
- 5. Rip Rap: Rip rap shall consist of a durable hard rock material produced from onsite excoartions as approved by the Engineer. If sultable rip rap material is not available from onsite excavations, rip rap may be obtained from an offsite or commercial source. Rip rap shall consist of a durable sandstone or limestone well graded with a maximum and minimum particle size of 6 to 18 inches.

- 7. Povement: Base stone shall consist of 6f WVDOT 307-1 (Class 1) Stone.
 Asphaltic base shall consist of WVDOT Base 1 mix.
 Asphaltic wearing course shall consist of WVDOT Wearing 1 mix.
 Asphaltic materials, placement, and compaction shall comply with WVDOT specifications.
 Subgrade to be compacted to 95% of the maximum dry density as determined by ASTM D698.
 Base Stone to be underlain by a suitable stabilization fabric as approved by the Engineer.
- wer Piping (Building to Septic Tank Only): Piping shall consist of SDR 35 PVC with bell and toconsections. Fittings shall be molded plastic suitable for solvent welding. Install with unw slope 0.5% and provide a cleanout with sanitary Wye where the piping leaves the name of the state of the
- Water Service Piping: Water service piping shall extend from the water meter to be installed WW American Water to within 5 feet of the building as shown on the plans. Water service shall be installed at a minimum depth of 4 feet below finish grade. Service piping shall nply with AWWA C901 or C902 for Polyethylene (PE) pressure pipe and tubing or Polybutylene) of Pressure pipe and tubing 1/2 inch thru 3 inch for water service. Coper piping may be d as approved by the Engineer. Pipe shall be installed in accordance with ASTM D2774. Pipe ta shall comply with ASTM D2857 Technique II Butt Fusion. If the service lines is not needicably connected to the main or the supply line for the building, the line shall be closed by g or cap. The service line shall be pressure and leak testing in accordance with AMM and the state of the service with Engineer. After pressure testing the service line shall be infected as required by the Engineer.
- 11. Curb: WVDOT Plain Curb -Type I as modified on the detail.
- 12. Foundations: Design foundations for allowable bearing pressure of 3000 psf. Extend all foundations to bear on bedrock. Minimum foundation depth is 30 inches below exterior grade for frost protection. Where depth to rock exceeds 30 inches use lean concrete to extend the foundation to rock. Foundation bearing surface to be approved by the Engineer prior to placement of concrete.

- 15. Electrical: AEP will furnish and install all underground coble, power pole, and transformer. The general contractor will pay for this work directly at the agreed upon price. The underground coble will be pulled through plastic conduit to be installed by the Contractor as part of site work. The contractor will also construct the transformer pad in accordance with AEP requirements. The contractor will also construct the transformer pad in accordance with AEP requirements below grade extending between the power pole and within 5 feet of the building as shown on the Drawings. Underground electric shall be separated a minimum of 5 feet from other underground utilities. The location and alignment of the conduit and transformer pad to be approved by AEP before installation. All electrical work shall be planned and executed by a licensed electrician and shall comply with applicable cades.

- 18. Refer to architectural drawings for building dimensions and layout.
- All disturbed areas to be revegetated in accordance with the WVDOT Section 652.
 Lawn area to be Type C-2. Fill and cut slopes to be Type D. Table 652.5-Seed Mixtures

DATE: APRIL, 2000

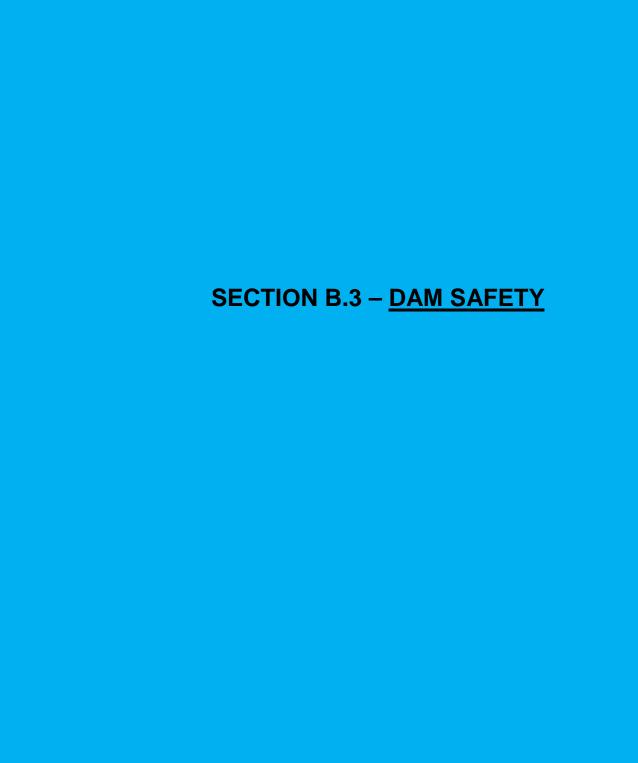
- 20. E & S measures to comply with the approved General Permit issued by the WVDEP OWR.
- 21. Refer to sheets 97206-2 thru 97206-3.

NOTE: SURVEY PERFORMED BY SITE BLAUVELT ENGINEERS

CIVIL TECH ENGINEERING, INC ST. ALBANS, WEST VIRGINIA SITE PLAN FIRST CHURCH OF GOD KANAWHA COUNTY, WEST VIRGINIA SCALE: NTS DRAWING NO. 97206-5

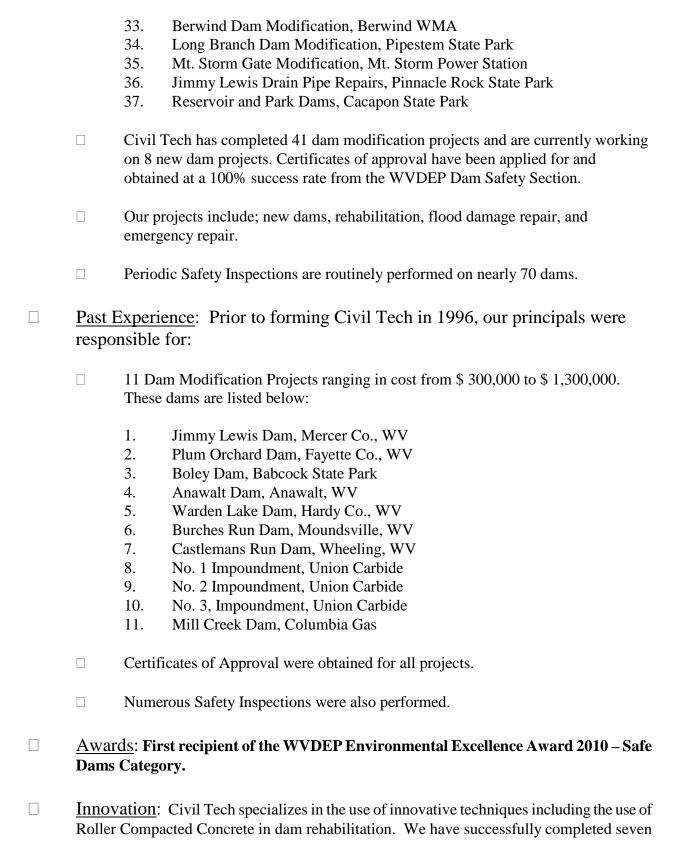
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CHECKED BY: MEP



SECTION B.3 - **DAM SAFETY EXPERIENCE**

- Civil Tech Experience: Civil Tech's dam experience over the last 22 years has included 41 Dam Modification Projects ranging in cost from \$50,000 to \$1,700,000. We are also currently working on 8 new dam modification projects. All dam projects involve civil, environmental, geotechnical, surveying/mapping, construction monitoring, and contract administration. We believe this experience makes our firm uniquely qualified for AML Design Work. A partial listing of our dam projects is provided below.
 - 1. Rollins Dam, Evans, WV
 - 2. Seneca Dam, Pocahontas Co., WV
 - 3 Teter Creek Dam, Barbour Co. WV
 - 4. Wells Lock and Dam, Elizabeth, WV
 - 5. Handley Dam, Handley WMA, Pocahontas Co., WV
 - 6. Anawalt Flood Damage Repair, Anawalt, WV
 - 7. Old Pond 11, McClintic WMA, Mason Co., WV
 - 8. Burches Run Breach Plan, Moundsville, WV
 - 9. Edwards Run Dam, Cacapon Bridge, WV
 - 10. Culloden PSD Dam, Culloden, WV
 - 11. Belington Water Supply Dam, Belington, WV
 - 12. Cedar Lakes Dam No.s 1 and 2, Ripley, WV
 - 13. Joyce Lake Dam, Clarksburg, WV
 - 14. Tailings Pond No. 2, Bessemer City, NC
 - 15. City of Thomas Dam, Thomas, WV
 - 16. Fly Ash Dam, FMC Peroxide Plant, So. Charleston, WV
 - 17. Dickenson Dam, FMC Sportsman's Club, Hurricane, WV
 - 18. Brood Pond Dam, FMC Sportsman's Club, Hurricane, WV
 - 19. Winterplace Dam Modification, Winterplace Ski Resort
 - 20. Wilson Big Hollow Dam, Hampshire Co. WV
 - 21. Burches Run Dam, Marshall Co., WV
 - 22. Moncove State Park Dam, Monroe Co., WV
 - 23. Winterplace Dam Reservoir Enlargement, Winterplace Ski Resort
 - 24. Bailey Dam Rehab, Monongalia Co. WV
 - 25. Lemley Dam Rehab, Monongalia Co. WV
 - 26. Deegan Dam Modification, Bridgeport, WV
 - 27. Hinkle Dam Modification, Bridgeport, WV
 - 28. Stony River Dam Breach, Grant Co., WV
 - 29. Mill Run Dam Modification, Mt. Top PSD, Grant Co., WV
 - 30. Mt. Storm Lake Dam Flip Bucket Stabilization, Dominion Generation
 - 31. Temperature and Flow Measurement Weir Design, Dominion Generation
 - 32. White Dam Modification, Private Owner, Sissonville, West Virginia



dam rehabilitation projects using RCC in West Virginia. Dam Break Analysis and Risk Assessment: Civil Tech has successfully used dam break analysis and risk assessment to reduce the hazard classification of many of our dam projects. This analysis resulted in a reduction in the design storm and substantial savings for our clients. Facility Improvements: Our dam rehabilitation projects have resulted in facility improvements including: Access For Fishermen. Boat Launching Ramps. Access Roads. Parking Facilities. Walkways Handicap Access. Toilet facilities. Maintenance of Facility: Our personnel are sensitive to the dam setting and make every effort to complete our projects with minimal disruption of the facility. Our designs are practical and planned to fit the site. <u>Project Photographs:</u> Representative photographs and sample drawings illustrating our Dam Rehabilitation experience are included herein.

CIVIL TECH ENGINEERING INC. "Attention to Detail"



THOMAS DAM MODIFICATION, THOMAS, WV



TETER CREEK DAM MODIFICATION, BARBOUR CO., WV



BELINGTON DAM MODIFICATION, BELINGTON, WV



WILSON DAM MODIFICATION, HAMPSHIRE CO., WV

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OLD ANAWALT DAM FLOOD DAMAGE REPAIR, MCDOWELL CO., WV



BAILEY DAM MODIFICATION, MONONGALIA CO., WV

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LEMLEY DAM MODIFICATION, MONONGALIA CO., WV



MONCOVE DAM MODIFICATION, MONROE CO., WV

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SENECA DAM MODIFICATION, POCAHONTAS CO., WV



PLUM ORCHARD DAM MODIFICATION, FAYETTE CO., WV

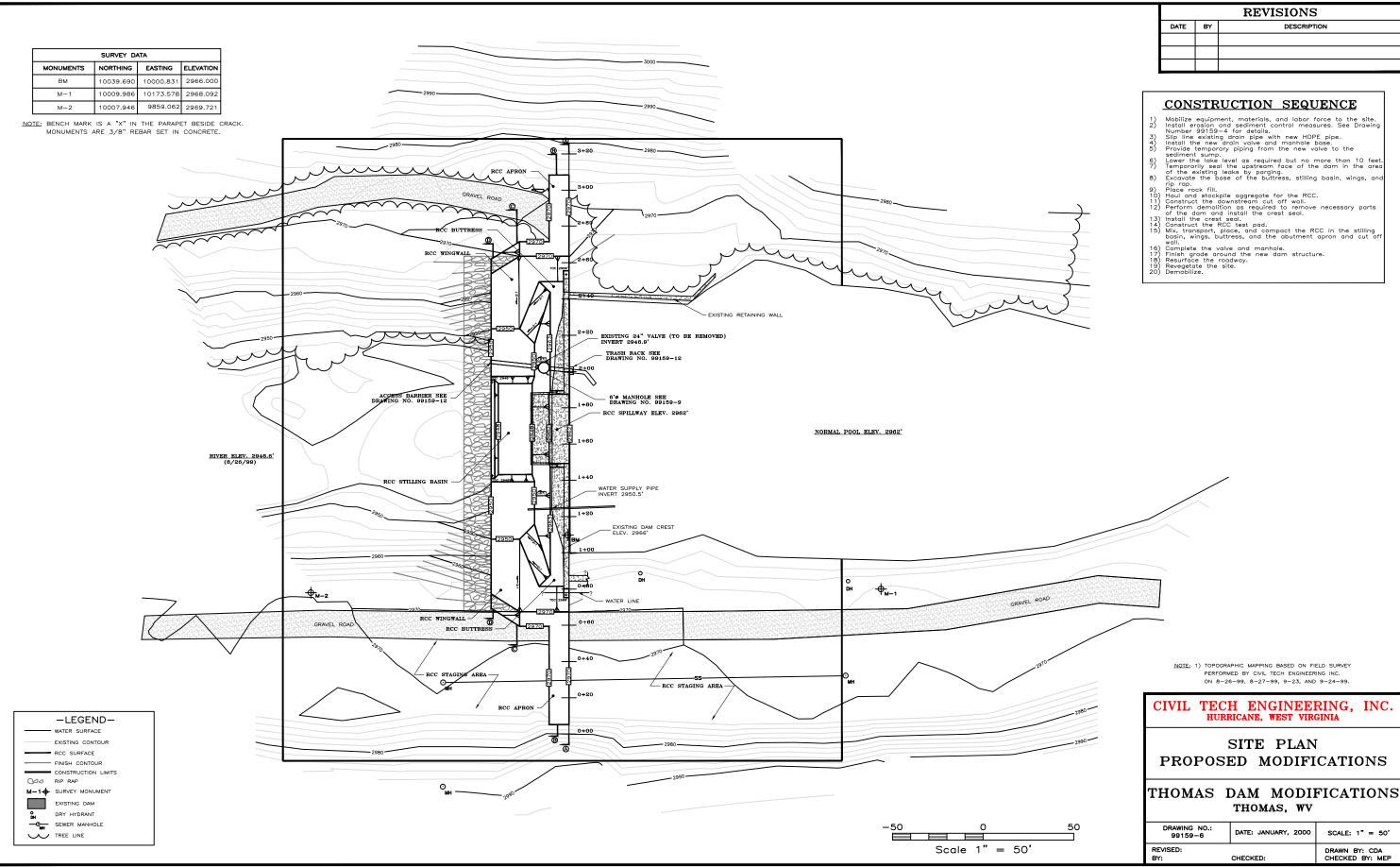
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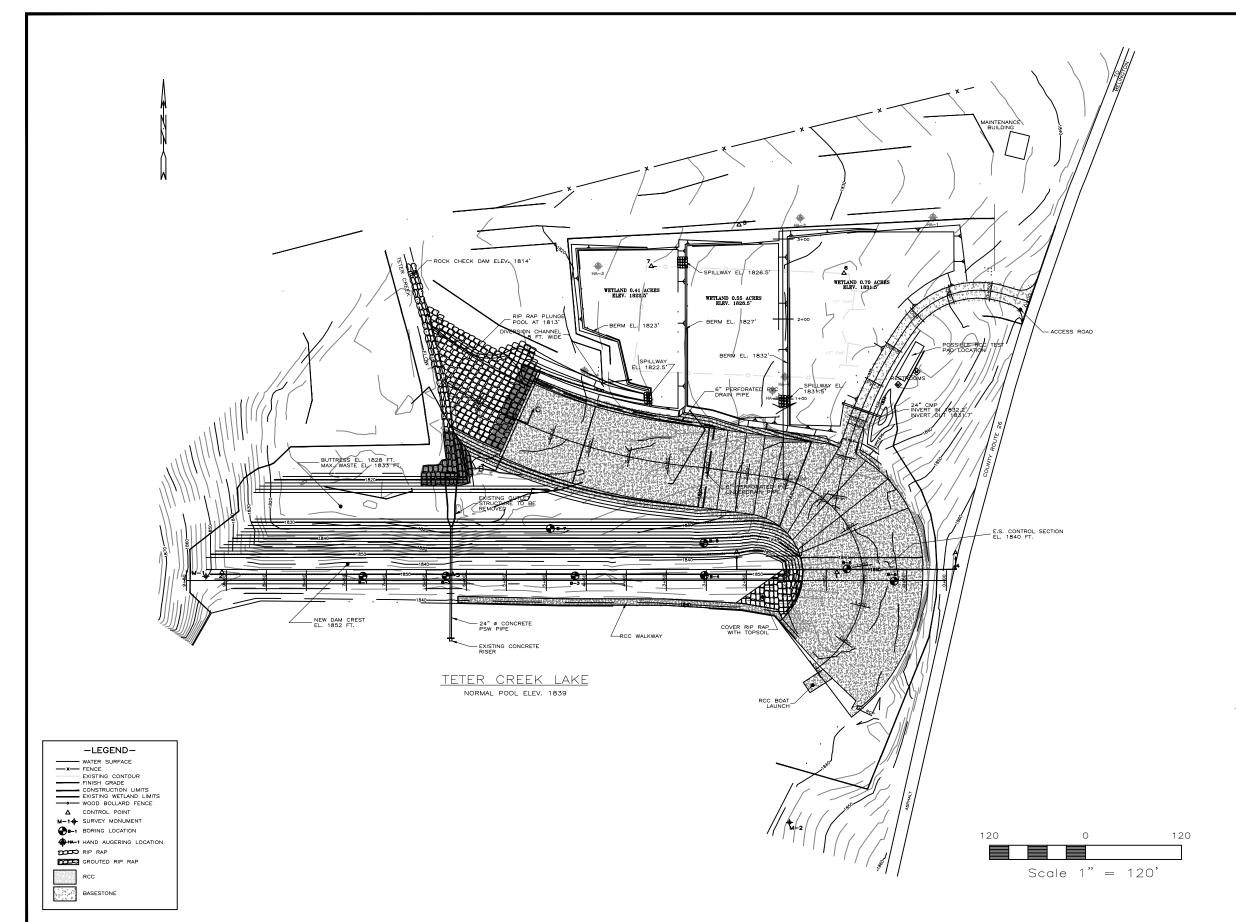


JIMMY LEWIS DAM MODIFICATION, MERCER CO., WV



WARDEN LAKE DAM MODIFICATION, HARDY CO., WV





	REVISIONS			
DATE	BY	DESCRIPTION		
2/22/00	RKM BDJ	ADDED PLUNGE POOL, RCC ON BEGINNING OF SPILLWAY, AND ADDED WETLAND.		
3/16/00	BDJ	REMOVED BERM AND RIGHT CUT OFF WALL, AND ADDED RIP RAP.		

SURVEY DATA					
CONTROL POINT	EASTING	NORTHING	ELEVATION		
1	10000.000	10000.000	1846.990		
2	9231.321	10000.084	1846.407		
3	9519.762	9997.425	1846.647		
4	10146.893	10005.343	1862.302		
5	9877.703	10434.459	1826.188		
6	10008.915	10373.994	1835.135		
7	9767.961	10382.644	1826.185		
M – 1	9211.162	9995.140	1850.663		
M-2	9940.742	9687.215	1844.266		

NOTE; MONUMENTS ARE 1/2" REBAR

NOTES: 1) REFER TO DRAWING NO. 98114-4 FOR PARKING LAYOUT, WALKWAY, AND BOAT RAMP INFORMATION.
2) SEE DRAWING NO. 98114-7 FOR SECTIONS A-A AND B-B

3) E&S MEASURES SHOWN ON DRAWING NO. 98114-3.

4) SEE DRAWING NO. 98114-20 FOR SECTION C-C

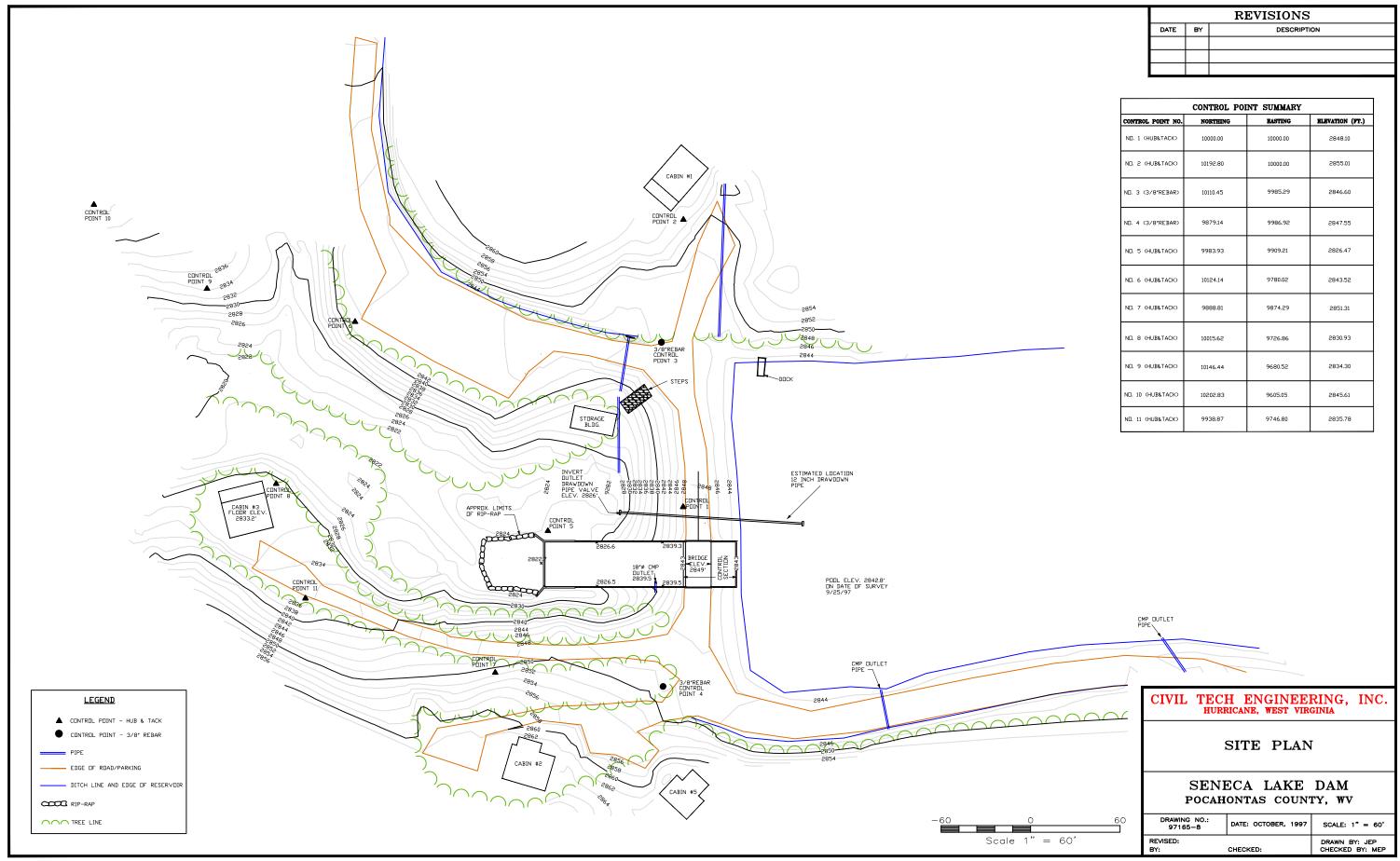
CIVIL TECH ENGINEERING, INC. ST. ALBANS, WEST VIRGINIA

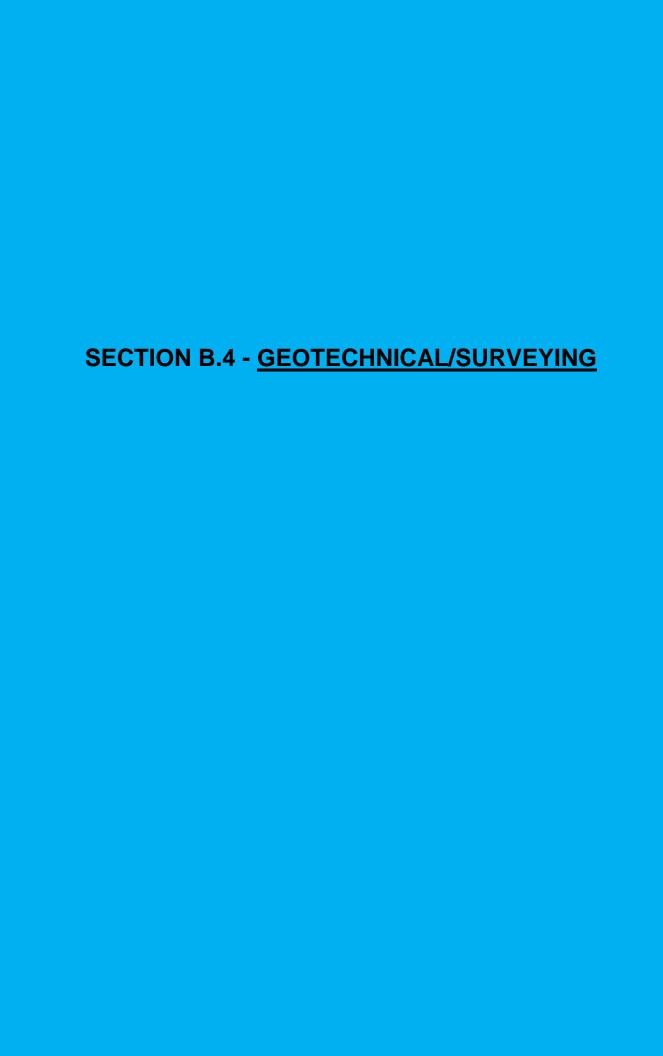
SITE PLAN PROPOSED MODIFICATIONS

TETER CREEK LAKE DAM BARBOUR COUNTY, WEST VIRGINIA

DRAWING NO.: 98114-7 DATE: APRIL 8, 1999

SCALE: 1" = 120' DRAWN BY: JCH, RKM CHECKED BY: MEP





$\underline{\textbf{SECTION B.4}} - \underline{\textbf{GEOTECHNICAL/SURVEYING}}$

<u>Civil Tech Experience</u> : Geotechnical engineering is a small, but important part of our business because so much of our work related to dams depends on geotechnical sampling, testing, and analysis. Our principals have a very strong background in this discipline from our history at Triad Engineering. Civil Tech has provided geotechnical services on a variety of projects including; mechanically stabilized walls, water and asphalt storage tanks, commercial buildings, churches, industrial equipment and buildings, etc. Typical projects for which Civil Tech has provided geotechnical engineering services include:					
Steel of West Virginia Expansion, Huntington, WV Service Wire Building Damage Evaluation, Culloden, WV First Church of God, Charleston, WV Various Water Storage Tanks, WV American Water Company Asphalt Storage Tanks, MTI, Gallipolis, Ohio Bridge Replacement, Elkem Metals, Alloy, WV Zim Bagging, Wayne County, WV Wurtland Marine Harbor, Wurtland, KY Steel of West Virginia Warehouse - Greenbottom, WV HADCO Shell Building - Huntington, WV Service Wire Warehouse Expansion, Culloden and Huntington, WV Countless Landslides Throughout WV Service Wire Warehouse Expansion, Huntington and Culloden, WV Waste Site Design, Means and Methods RR Crossings, Rt. 10 Rita to Midway Plaza Highway Project, Man, WV					
<u>Past Experience:</u> Our principals were directly responsible for large geotechnical projects including:					
 □ Southridge Centre, Charleston, WV □ Ridgeline Development, Charleston, WV □ Cabell East High School, Huntington, WV □ Beckley Federal Prison, Beckley, WV □ Rhodimet Plant, Rhone Poulenc, Institute, WV □ Countless Highway Projects for the WVDOT □ Hazardous and Sanitary Landfills throughout WV, KY, and Ohio □ Over 120 Abandoned Mine Land Projects for the WVDEP 					
<u>Surveying and Mapping</u> : Surveying and mapping services are performed by our inhouse crew using electronic instruments with onboard data collectors, and computer software to reduce data and develop drawings. The work is performed under the direction of one of our Professional Surveyors. Since forming Civil Tech, we have performed field surveying necessary to develop topographic mapping and locate existing site features for most of our ongoing and past engineering projects. Clients have included:					

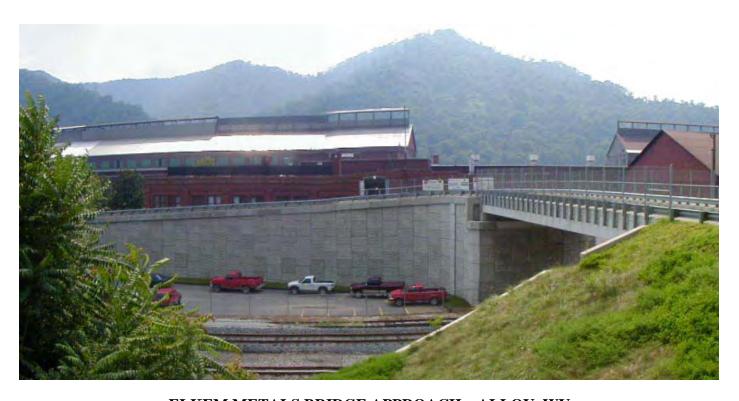
Steel of West Virginia
Service Wire
FMC Peroxide
Simpson - Litman Builders
WVDNR - Wildlife Section
Joyce Properties
City of Thomas
City of Belington
City of Culloden
WVDNR - Parks & Recreation
Winterplace Ski Resort
Mt. Top PSD
NewPage Corporation
Dominion Generation
WV American Water
Private Concerns

CIVIL TECH ENGINEERING INC. "Attention to Detail"



ASPHALT STORAGE TANK FARM - MIDDLEPORT TERMINALS INC.

- SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- ☐ FOUNDATION DESIGN
- □ PLANS AND SPECIFICATIONS
- ☐ CONSTRUCTION CONSULTATION



ELKEM METALS BRIDGE APPROACH - ALLOY, WV

- SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- ☐ FOUNDATION RECOMMENDATIONNS
- ☐ CONSTRUCTION CONSULTATION

CIVIL TECH ENGINEERING INC. "Attention to Detail"



FLEMING STREET PROJECT - MONONGAH, WV

- ☐ TOPOGRAPHIC MAPPING
- □ SUBSURFACE INVESTIGATION
- ☐ EROSION AND SLIDE STABILIZATION
- □ PLANS AND SPECIFICATIONS
- □ BIDDING
- □ CONSTRUCTION CONTRACT ADMINISTRATION



SARVER LANDSLIDE PROJECT - HURRICANE, WV

- ☐ TOPOGRAPHIC MAPPING
- □ SUBSURFACE INVESTIGATION
- ☐ GEOTECHNICAL ANALYSIS
- □ DRILLED PILE WALL DESIGN AND GRADING OPTION
- □ PLANS AND SPECIFICATIONS
- □ BIDDING