



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

**Solicitation**

NUMBER
DEP16434

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

RFQ COPY  
 TYPE NAME/ADDRESS HERE  
**Civil Tech Engineering Inc.**  
 300A Prestige Drive  
 Hurricane, WV 25526

SHIP TO  
 ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499

DATE PRINTED
12/10/2013

BID OPENING DATE: 01/14/2014 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-29		
				CANYON REFUSE & DUMP DESIGN		
				EXPRESSION OF INTEREST		
				THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE CANYON REFUSE AND DUMP, MONONGALIA COUNTY, WEST VIRGINIA PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.		
				***** THIS IS THE END OF RFQ DEP16434 ***** TOTAL:		
				01/14/14 09:30:42AM West Virginia Purchasing Division		

SIGNATURE	TELEPHONE 304-757-8094	DATE January 14, 2013
TITLE President	FEIN 55-0787403	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**RFQ DEP16434  
EXPRESSION OF INTEREST  
TO PROVIDE PROFESSIONAL ENGINEERING SERVICES  
FOR  
CANYON REFUSE & DUMP DESIGN**

**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](mailto:civiltech1@frontier.com)**

**DATE SUBMITTED: JANUARY 14, 2014**

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

January 14, 2014

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

Subject: **Expression of Interest for RFQ - DEP16434**  
**Canyon Refuse & Dump Design**  
Monongalia County, West Virginia  
Civil Tech Proposal No. P13525

To Whom it May Concern:

**CIVIL TECH ENGINEERING INC.** is pleased to present this EOI for the subject RFQ. 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.
- 18 recent AML projects since 2008
- Constructed AML projects: Thomas Sunrise Sanitation Mine Drainage and Blowout Projects, Prospect Valley Highwall No. 4, Cambria Portals, Zebb's Creek HW#2, Hawkinberry Hollow, Douglas WL, Winifrede (McFann) Portals, Birds Creek Portals, Ridenour Complex, Braeholm Portals, Witcher Creek Portals and Refuse, and Nellis (Smith) Drainage Project.
- AML design projects complete and ready for construction or under construction include; Montecarlo Complex and Stowe Refuse Piles.
- Ongoing projects include Little Daycamp Branch, and Grafton #4 Refuse and HW.
- Conceptual engineering was completed and preliminary engineering started for the Pines Country Club (Ponds) Subsidence Project. (Project Cancelled due to cost).

**We believe our past and recent experience makes our company uniquely qualified for AML design projects.** 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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# EXPRESSION OF INTEREST CANYON REFUSE & DUMP DEP16434

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## SECTION ONE: GENERAL INFORMATION

1. **PURPOSE:** The Acquisition and Contract Administration Section of the Office of West Virginia State Purchasing Division (Purchasing Division) is soliciting Expression(s) of Interest (EOI) for the West Virginia Department of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML), from qualified firms (Vendors) to provide architectural/engineering services as defined herein.
2. **PROJECT:** The mission or purpose of the project for which bids are being solicited is to provide design services for the following:

### CANYON REFUSE & DUMP:

Design of drainage conveyances.  
 Installation of mine seals and bat gate mine seals.  
 Refuse reclamation  
 Stream channel restoration.  
 Access road construction.  
 Under drain installation.  
 Demolition of structures.  
 Re-grading of mine spoil to eliminate highwall.  
 Re-vegetation of disturbed areas.

**EXPRESSION OF INTEREST  
CANYON REFUSE & DUMP  
DEP16434**

**3. SCHEDULE OF EVENTS:**

Release of the EOI.....12/13/2013  
Addendum Issued .....TBD  
Expressions of Interest Opening Date.....01/14/2014  
Estimated Date for Interviews.....TBD

**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 NON-MANDATORY PRE-BID meeting will be held at the following place and time:
  
  
  
  
  
  
  
  
  
  
  - 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 person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify 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 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 non-binding.

Question Submission Deadline: 12/27/2013

Submit Questions to: Frank Whittaker

2019 Washington Street, East

Charleston, WV 25305

Fax: 304-558-4115

Email: frank.m.whittaker@wv.gov

- 5. VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including that made 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 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 bid delivery address is:

Department of Administration, Purchasing Division

2019 Washington Street East

Charleston, WV 25305-0130



The bid should contain the information listed below on the face of the envelope or the bid may not be considered:

SEALED BID

BUYER: \_\_\_\_\_

SOLICITATION NO.: \_\_\_\_\_

BID OPENING DATE: \_\_\_\_\_

BID OPENING TIME: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus \_\_\_\_\_ convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE:  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 time stamped by the official Purchasing Division time clock.

Bid Opening Date and Time: 01/14/2014 at 1:30 PM

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.

# EXPRESSION OF INTEREST CANYON REFUSE & DUMP DEP16434

## SECTION THREE: PROJECT SPECIFICATIONS

1. **Location:** Agency is located at 101 Cambridge Place, Bridgeport, WV 26330 and the Project is located in Monongalia County, WV.

Directions to Site: Traveling east on I-68, take Exit 7 and turn left on CR-857 S. Continue straight for 2.4 miles (road changes to US 119), and turn right onto and proceed 0.9 miles. Turn left onto Hickory Ridge Dr. Continue straight onto Warm Hollow Road (CR 119/4, a dirt road) and continue uphill for 0.4 miles to Site 1 on right. Continue uphill for 0.1 miles to Site 2 on left.

2. **Background:** Firms are to be licensed Architectural/Engineering Firms (A/E) and should be familiar with, and have a 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, Structural, Geological and Hydrological.

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

Design of drainage conveyances.  
Installation of mine seals and bat gate mine seals.  
Refuse reclamation  
Stream channel restoration.  
Access road construction.  
Under drain installation.  
Demolition of structures.  
Re-grading of mine spoil to eliminate highwall.  
Re-vegetation of disturbed areas.

Preliminary design documents will be due 90 days from the issuance of the Purchase Order.

## EXPRESSION OF INTEREST CANYON REFUSE & DUMP DEP16434

3. **Qualifications and Experience:** Vendors will 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 what the project goals and objectives where 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 "B" and the AML and Related Project Experience Matrix (RPEM). Attachment "C".

AML Consultant Qualification Questionnaire (CQQ) must be completed to be eligible (See Attachment "B").

AML and Related Project Experience Matrix (RPEM) must also be completed to be eligible (See Attachment "C").

**Electronic copies of the above referenced documents Attachment "B" and Attachment "C" are available online for registered vendors at:**  
**<http://www.state.wv.us/admin/purchase/newbul.htm>**

4. **Project and Goals:** The project goals and objectives are:

Develop drawings and specifications to remediate an abandoned mine land problem area.

5. **Oral Presentations (Agency Option):** The Agency has the option of requiring oral presentations of all Vendors participating in the EOI process. If this option is exercised, it would be listed in the Schedule of Events (Section 1.3) of this EOI. During oral presentations, Vendors may not alter or add to their submitted proposal, but only clarify information. A description of the materials and information to be presented is provided below:

## **EXPRESSION OF INTEREST CANYON REFUSE & DUMP DEP16434**

### **5.1. Materials and Information Required at Oral Presentation:**

“Evaluation and Award Process” 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

## **SECTION FOUR: VENDOR PROPOSAL, EVALUATION, & AWARD**

1. **Economy of Preparation:** EOI's should be prepared simply and economically, providing a straightforward, concise description of 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.

All responses should be submitted in a loose-leaf, three ring binder. Submit one original, one convenience copy and one copy on CD.

2. **BIDS MUST NOT CONTAIN PRICE QUOTATIONS:** The State shall select the best value solution according to §5G-1-3 of the West Virginia State Code. In accordance with the Code requirements, no “price” or “fee” information is requested or permitted in the bid response.

**EXPRESSION OF INTEREST  
CANYON REFUSE & DUMP  
DEP16434**

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 West Virginia Code §5G-1-3. That Code section requires the following:
- 3.1. **Required Elements of EOI Response:** The director of purchasing shall encourage such firms engaged in the lawful practice of the profession to submit an expression of interest, which shall include a statement of qualifications, and performance data and may include anticipated concepts and proposed methods of approach to the project.
  - 3.2. **Public Advertisement:** All EOI requests shall be announced by public notice published as a Class II legal advertisement in compliance with the provisions of West Virginia Code §59-3-1 et seq.
  - 3.3. **Selection Committee Evaluation & Negotiation:** A committee comprised of three to five representatives of the agency initiating the request shall:
    - 3.3.1. 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.
    - 3.3.2. Conduct interviews with each firm selected and the conduct discussions regarding anticipated concepts and the proposed methods of approach to the assignment.
    - 3.3.3. Rank in order of preference no less than three professional firms deemed to be the most highly qualified to provide the services required, and shall commence scope of service and price negotiations with the highest qualified professional firm.
    - 3.3.4. Should the agency be unable to negotiate a satisfactory contract with the professional firm considered to be the most qualified, at a fee determined to be fair and reasonable, price negotiations with the firm of second choice shall commence. Failing accord with the second most qualified professional firm, the committee shall undertake price negotiations with the third most qualified professional firm.

**EXPRESSION OF INTEREST  
CANYON REFUSE & DUMP  
DEP16434**

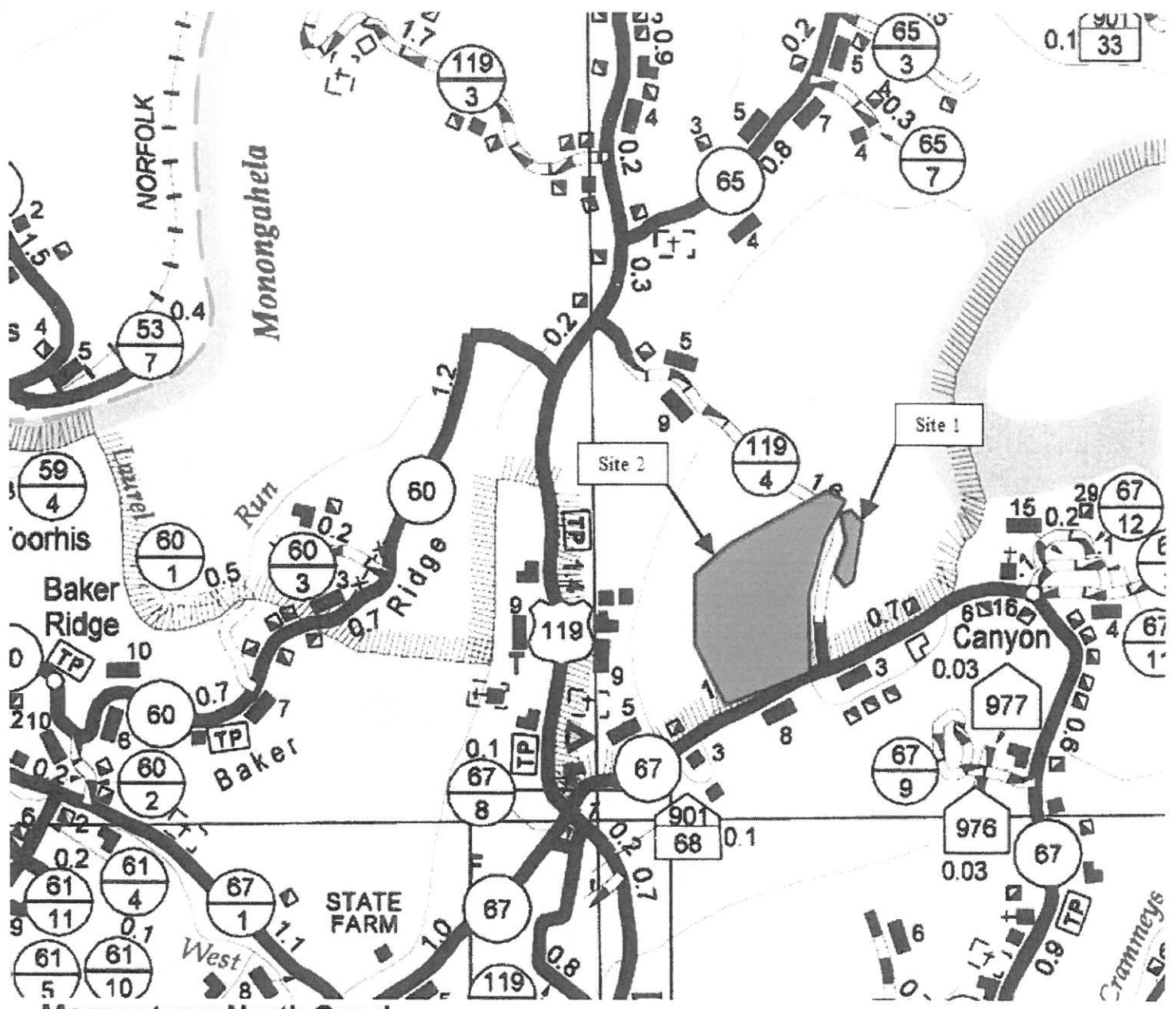
3.3.5. Should the agency be unable to negotiate a satisfactory contract with any of the selected professional firms, it shall select additional professional firms in order of their competence and qualifications and it shall continue negotiations in accordance with this section until an agreement is reached.

3.4. **Vendor Ranking:** All evaluation criteria is 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:

- |   |           |
|---|-----------|
| A. WV Registered Professional Engineers (Civil or Mining)<br>In the Primary Office:   | 20 points |
| B. Reclamation Engineering design experience of the Primary Office's WVRPE as it relates to the specific project problem Areas:   | 25 points |
| C. Available WV-AML Design Teams within the Primary office (A Design team should consist of one Project Engineer (Civil or Mining), one CAD person and availability of other support personnel a required by the particular project): | 20 points |
| D. The Oral Interview (See 5.1 under Section 3 of this EOI):  | 35 points |

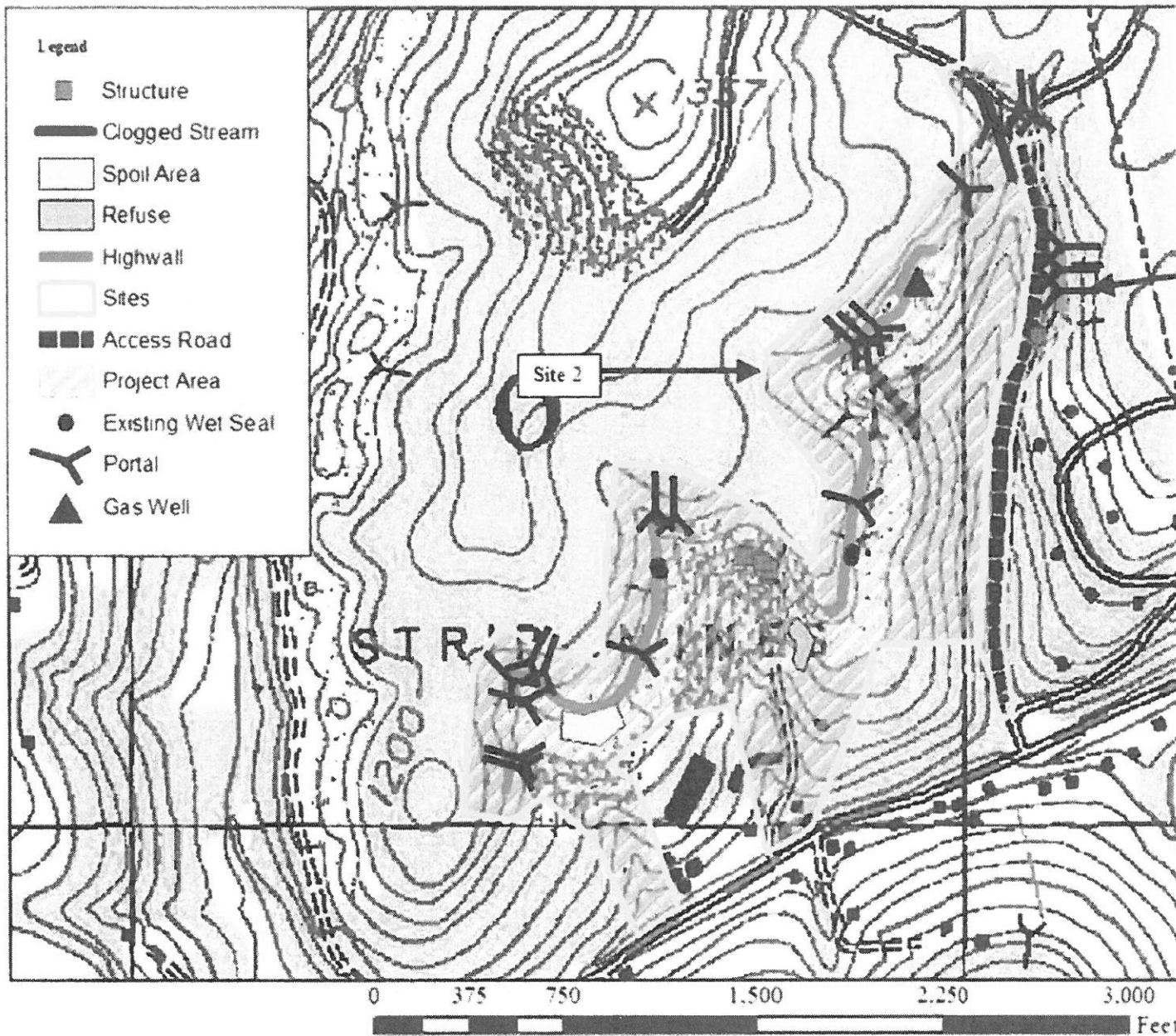
12  
**Project Location Map – County Highway Map**  
**Canyon Refuse and Dump, WV-1791**



**Morgantown North Quad**  
Latitude: 39° 40' 48.49"

Lor

# Project Location Map Canyon Refuse and Dump, WV-1791



Morgantown North Quad  
Latitude: 39° 40' 48.49"

Loi



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**

Attachment "B"

PROJECT NAME Canyon Refuse & Dump Design (DEP16434)		DATE (DAY, MONTH, YEAR) January 14, 2014	FEIN 55-0757403
1. FIRM NAME <b>CIVIL TECH ENGINEERING INC.</b>		2. HOME OFFICE BUSINESS ADDRESS 300A Prestige Drive Hurricane, West Virginia 25526	3. FORMER FIRM NAME NA
4. HOME OFFICE TELEPHONE 304-757-8094	5. ESTABLISHED (YEAR) 1996	6. TYPE OWNERSHIP Individual <u>Corporation</u> Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO <b>XX</b>
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 300A Prestige Drive, Hurricane, WV 25526/Mark E. Pennington PE/Twelve			
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Mark E. Pennington MS, PE Jennifer E. Pennington PE		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS  NA	
9. PERSONNEL BY DISCIPLINE			
— ADMINISTRATIVE	— ECOLOGISTS	— LANDSCAPE ARCHITECTS	— STRUCTURAL ENGINEERS
— ARCHITECTS	— ECONOMISTS	— MECHANICAL ENGINEERS	<b>1 SURVEYORS</b>
— <b>BIOLOGIST</b>	— ELECTRICAL ENGINEERS	— <b>MINING ENGINEERS</b>	— TRAFFIC ENGINEERS
<b>2 CADD OPERATORS</b>	1 ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	OTHER (Technicians)
— CHEMICAL ENGINEERS	— ESTIMATORS	— PLANNERS: URBAN/REGIONAL	
<b>3 CIVIL ENGINEERS</b>	<b>1 GEOLOGISTS</b>	— SANITARY ENGINEERS	12 TOTAL PERSONNEL
4 CONSTRUCTION INSPECTORS	— HISTORIANS	— SOILS ENGINEERS	
— DESIGNERS	— HYDROLOGISTS	— SPECIFICATION	
— DRAFTSMEN		— WRITERS	
<p><b>TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>3</u></b></p> <p><b>*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.</b></p>			
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? <input type="checkbox"/> YES <input type="checkbox"/> NO <b>NA</b>			
11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire".			

NAME AND ADDRESS: Novel Geo-Environmental PLLC 806 B Street St. Albans, WV 25177	SPECIALTY: Drilling and Laboratory Soils Testing	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS: Triad Engineering Inc. 219 Hartman Run Road Morgantown, WV 26505	SPECIALTY: Drilling and Laboratory Soils Testing	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
NAME AND ADDRESS: Stantec 1 Moore Avenue Buckhannon, WV 26201	SPECIALTY: Mapping	WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

YES Description and Number of Projects: See Section A  
152 AML Projects - Personnel Experience (Mark E. Pennington PE)  
50+ Subsidence Claims - Corporate Experience

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: See Sections B.2, B.3, and B.4  
1500+ Projects - Corporate and Personnel Experience.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: See Sections B.2, B.3, and B.4  
50+ Projects involving storm water controls and dam spillway design.

NO

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

YES

NO **XX**

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

YES Description and Number of Projects: \_\_\_ Douglas Water line\_ (DEP ID#303) \_\_\_\_\_

NO

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

YES Description and Number of Projects: \_ Design of Liming station and dams for Cranberry River. \_\_\_\_\_

NO

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<b>Pennington, Mark E.</b> <b>President - Principal Engineer</b>	17	36	4

Brief Explanation of Responsibilities:

**PROJECT RESPONSIBILITIES**

- ENVIRONMENTAL PERMITTING
- TOPOGRAPHIC MAPPING
- HYDROLOGY AND HYDRAULICS
- FLOOD ASSESSMENT
- EROSION CONTROL
- STORM WATER CONTROLS
- SANITARY SEWER DESIGN
- GEOTECHNICAL ANALYSIS
- SUBSIDENCE ABATEMENT
- LANDSLIDE ANALYSIS AND DESIGN
- RETAINING WALL DESIGN
- DAM MODIFICATIONS
- ANNUAL DAM INSPECTIONS
- COMMERCIAL CIVIL SITE DEVELOPMENT
- CONSTRUCTION CONTRACT ADMINISTRATION

**COMPANY RESPONSIBILITIES**

- COMPANY MANAGEMENT
- BUSINESS DEVELOPMENT
- PROJECT PLANNING AND SUPERVISION

**RECENT AND ONGOING PROJECTS**

- THOMAS SUNRISE SANITATION - AML
- PROSPECT VALLEY HIGHWALL #4 - AML
- WINIFREDE (MCFANN) PORTALS - AML
- DOUGLAS WL DESIGN - AML
- CAMBRIA PORTALS & DESIGN - AML
- ZEBB'S CREEK HW #2 - AML
- HAWKINBERRY HOLLOW PORTALS - AML
- WITCHER CREEK PORTALS - AML
- STOWE REFUSE PILES - AML
- RIDENOUR COMPLEX - AML
- BRAEHOLM PORTALS - AML
- MONTECARLO COMPLEX - AML
- GRAFTON #4 REFUSE AND HW - AML
- LITTLE DAYCAMP BRANCH - AML

As the former manager of the St. Albans Office of Triad Engineering and a founder of Civil Tech, Mr. Pennington has gained a broad knowledge of most civil engineering disciplines involving abandoned mine lands, storm water and erosion controls, dams, as well as private, industrial, and municipal projects involving topographic mapping, geotechnical analysis, and civil site development. He has been responsible for 154 AML projects, 48 dam modification projects, and many large commercial, private, and industrial projects. Mr. Pennington has a working knowledge of AML projects including; subsidence, landslides, mine drainage/portals, erosion, shafts, burning refuse, and surface/subsurface drainage. He has served as project manager on 17 AML projects since 2008. These projects have included; the Thomas Sunrise Sanitation Mine Drainage Project, Prospect Valley HW #4, Cambria Portals, Winifrede Portals, Douglas WL, and Witcher Creek Portals. Most of these project are complete and all have been successfully completed on time. Mr. Pennington has substantial construction experience gained while administering the construction contract on over 100 projects and while serving as the Assistant Project Manager on the USACOE Moorefield Flood Levee Project as an employee of Heeter Construction of Spencer, West Virginia.

EDUCATION (Degree, Year, Specialization)

BSCE/1977/Civil Engineering Undergraduate Degree - WVU  
 MSCE/1985/Soils and Foundations/WVCOG

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)  
 Association of State Dam Safety Officials (ASDSO)

REGISTRATION (Type, Year, State)

CE/1981/WV CE/1995/NC CE/1988/KY CE/1988/OH  
 CE/2013/VA PS/1995/WV

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

NAME & TITLE (Last, First, Middle Int.) <b>Pennington, Jennifer E.</b> <b>Vice President - Principal Engineer</b>	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:  17	YEARS OF AML RELATED DESIGN EXPERIENCE:  25	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 0

Brief Explanation of Responsibilities

- COMPANY RESPONSIBILITIES**
- COMPANY MANAGEMENT
  - PROJECT PLANNING AND DIRECTION

- PROJECT RESPONSIBILITIES**
- HYDROLOGY AND HYDRAULICS
  - FLOOD ASSESSMENT
  - EROSION CONTROL
  - STORM WATER CONTROLS
  - GEOTECHNICAL ANALYSIS
  - LANDSLIDE ANALYSIS AND DESIGN
  - RETAINING WALL DESIGN
  - DAM MODIFICATIONS
  - ANNUAL DAM INSPECTIONS
  - COMMERCIAL CIVIL SITE DEVELOPMENT

Ms. Pennington is a multi-disciplined engineer who has served as project manager on many large and complex civil and geotechnical engineering projects involving subsurface investigation, geotechnical analysis, dam design/rehabilitation, civil site development, storm water controls, etc. She is a former senior engineer with Triad Engineering. While with Triad, she performed geotechnical analysis for many AML projects and was directly responsible for the analysis of the Rock Branch Landslide Project in Kanawha County. Ms. Pennington has also been responsible for design engineering associated with recent AML projects including Thomas Sunrise Sanitation, Prospect Valley, Cambria, and Zebb's Creek. Ms. Pennington's duties and responsibilities at Civil Tech include planning, direction, and performance of geotechnical analysis, civil site design, dam modification design, and hydrologic/hydraulic analysis. She has expertise in the use of HEC1, HEC2, Dams2, Flowmaster, Hydrocad, SPW911, PCstable 5 and 6, Autocad, and Eaglepoint computer modeling software.

EDUCATION (Degree, Year, Specialization)

BSCE/1988/Civil Engineering Undergraduate Degree - University of Kentucky

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)  
Association of State Dam Safety Officials (ASDSO)

REGISTRATION (Type, Year, State)

CE/1992/WV  
PS/1995/WV

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE
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<b>Kessler, Robert R. - Geologist</b>	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
	5	13	0

**Brief Explanation of Responsibilities:**

Mr. Kessler is responsible for all geologic studies/investigations required to support engineering services for Civil Tech. Projects include mining subsidence investigations, blasting studies, and geologic studies for more than 40 dam modifications throughout West Virginia.

**EDUCATION (Degree, Year, Specialization)**

**B.S. - Geology - 1965 - Ohio University**  
**Post Graduate Work - 1965 to 1966 - Geology - Ohio University**  
**B.S. - Mathematics - 1980 - University of Charleston**

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

**REGISTRATION (Type, Year, State)**

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
<b>Arthur, Charles D. - CADD Designer &amp; Survey Crew Party Chief</b>	5	13	2

**Brief Explanation of Responsibilities**

Senior designer responsible for direction of other draftsmen and preparation of design drawings using Autocad and Eagle Point modeling software, survey party chief, and evaluation of mine maps and subsidence. Mr. Arthur has served as a senior designer for the following recent projects.

- Thomas Mine Drainage and Blowout AML Projects, Thomas, WV
- Prospect Valley Highwall No. 4, Shinnston, WV
- Winifred McFann Portals, Winifrede, Kanawha County, WV
- Nellis (Smith) Drainage, Nellis, WV
- Zebb's Creek HW#2, Barbour County, WV
- Cambria Portals, Harrison County, WV
- Hawkinberry Hollow Portals, Marion County, WV
- Thomas Sewer-Stormwater Segregation Project, Thomas, WV
- Thomas Stormwater Improvements, Thomas, WV
- Nearly 40 dam modification projects throughout WV
- Holiday Inn Express, Mineral Wells, WV
- Fairfield Inn & Suites, Weirton, WV
- Birds Creek Portals, Preston County, WV
- Witcher Creek Portals, Kanawha County, WV
- Montecarlo Complex, Wyoming County, WV
- Grafton#4 Refuse and Highwall, Taylor County, WV
- Little Daycamp Branch, McDowell 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 2011
- Microstation
- Eaglepoint 2009
- HEC-1
- HEC-2
- HECRAS
- HEC-HMS
- Dams2
- Hydrocad version 9
- Flowmaster
- Sewercad
- Watercad
- PCstable 5
- SPW911 - Pile Buck Sheet Pile Wall Design Program
- Word Perfect, Excel, and other office support programs.

Equipment:

- 1 4WD Pickup
- 1 Jeep Grand Cherokee
- 4 Desktop Computers
- 5 Laptop Computers
- 4 Digital Cameras
- 1 HP Designjet 1050C Plotter
- 4 HP Deskjet Printers
- 1 Color Laser Printer
- 1 Leica TC600 Total Station
- 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 LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
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Cacapon State Park Dam Modifications	Brad Leslie WVDNR Parks & Recreation Section Capitol Complex, Building 3, Room 723 Charleston, WV 25305	Topographic Mapping Design Permitting Bidding Construction Monitoring Contract Administration	\$ 1,500,000	Mapping 100% Design 100% Permitting 100% Bidding 0% Const. Monitoring 0% Contract Admin 0% Construction expected 2013/2014 season.
Witcher Creek Portals Kanawha County, WV	Jonathan Neal WVDEP-AML 254 Industrial Drive Oak Hill, WV	Subsurface Investigation Design Permitting Bidding Construction Monitoring	\$ 500,000	Design 100% Permitting 100% Bidding 0% Const. Monitoring 0% Construction underway 2013.
Montecarlo Complex Wyoming County, WV	Mark Proctor WVDEP-AML 254 Industrial Drive Oak Hill, WV	Subsurface Investigation Design Permitting Bidding Construction Monitoring	\$ 750,000	Design 100% Permitting 100% Bidding 0% Const. Monitoring 0% Construction expected 2014.
Grafton #4 Refuse and HW Taylor County, WV	Gregg Smith WVDEP-AML Bridgeport, WV	Subsurface Investigation Design Permitting Bidding Construction Monitoring	\$ 750,000	Design 90% Permitting 50% Bidding 0% Const. Monitoring 0% Construction expected 2014.
Little Daycamp Branch McDowell County, WV	Mark Proctor WVDEP-AML 254 Industrial Drive Oak Hill, WV	Design Permitting Bidding Construction Monitoring	\$ 550,000	Design 90% Permitting 0% Bidding 0% Const. Monitoring 0% Construction expected 2014.
Phase I - Units 1 & 2 Ash Handling Area Pavement Replacement Design Mt. Storm Power Station Mt. Storm, WV	Patrick W. Flaughner Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	Design Services	\$ 2,000,000	Design 100% Bidding 100% Const. Monitoring 90% Construction underway 2013.
Coal Haul Road Pavement Replacement Design Mt. Storm Power Station Mt. Storm, WV	Patrick W. Flaughner Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	Design Services	\$ 2,000,000	Design 50% Bidding 100% Const. Monitoring 50% Construction underway 2013.
TOTAL NUMBER OF PROJECTS: <b>Seven</b>			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ 8,050,000	

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS **None**



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 WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
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
Hawkinberry Hollow Portals and Drainage Marion County, WV	Tim Lemasters WVDEP-AML Bridgeport, WV	\$ 500,000	2012	YES
Birds Creek Portals Preston County, WV	Gregg Smith WVDEP-AML Bridgeport, WV	\$ 750,000	2012	YES
Longbranch Dam Dam Modification Pipestem State Park	Mr. Brad Leslie WVDNR Parks and Recreation Section 324 4 <sup>th</sup> Avenue South Charleston, WV	\$ 200,000	2012	YES

<b>Berwind Dam</b> Dam Modification Berwind WMA	<b>Mr. Brad Leslie</b> WVDNR Parks and Recreation Section 324 4 <sup>th</sup> Avenue South Charleston, WV	\$ 1,000,000	2012	YES
<b>Prospect Valley Highwall #4</b> Shinnston, Harrison County, WV	<b>Tim Lemasters</b> WVDEP-AML 105 South Railroad Street Philippi, WV 26416	\$ 1,000,000	2011	YES
<b>Winifred (McFann) Portals</b> Winifrede, Kanawha County, WV	<b>Dean Stiltner</b> WVDEP-AML 116 Industrial Drive Oak Hill, WV 25901	\$ 250,000	2011	YES
<b>Zebb's Creek Highwall #2</b> Junior WV, Barbour County, WV	<b>Gregg Smith</b> WVDEP-AML 209 South Main Street Philippi, WV 26416	\$ 200,000	2011	YES
<b>Cambria Portals &amp; Drainage Design</b> Cambria, Harrison County, WV	<b>Tim Lemasters</b> WVDEP-AML 209 South Main Street Philippi, WV 26416	UNKNOWN	2011	YES
<b>Mt. Storm Gate Modification</b> Mt. Storm Power Station	<b>Mr. Patrick Flaughter</b> <b>Dominion Generation</b> <b>Mt. Storm Power Station</b> Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	UNKNOWN	2011	YES
<b>Drain Pipe and Gate Repair</b> Jimmy Lewis Dam Pinnacle Rock SP Mercer Co., WV	<b>Brad Leslie</b> WVDNR Parks and Recreation Section 324 4 <sup>th</sup> Avenue South Charleston, WV	\$ 280,000	2011	YES
<b>Thomas Sunrise Sanitation Mine Drainage</b> Thomas, Tucker County, WV	<b>Gregg Smith</b> WVDEP-AML 209 South Main Street Philippi, WV 26416	\$ 250,000	2009	YES
<b>Thomas Sunrise Sanitation Mine Blowout</b> Thomas, Tucker County, WV	<b>Gregg Smith</b> WVDEP-AML 209 South Main Street Philippi, WV 26416	\$ 250,000	2009	YES

<b>Stony River Dam</b> Breach Dam to Remove from WVDEP Jurisdiction Grant County, WV	<b>Sterlin Rebuck</b> NewPage Corporation 300 Pratt Street Luke, MD 21540	\$ 250,000	2009	YES
<b>Phase I - Unit 3 Ash Handling Area Pavement Replacement Design</b> Mt. Storm Power Station Mt. Storm, WV	<b>Patrick W. Flaughner</b> Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	\$ 500,000	2009	YES
<b>Flow &amp; Temperature Monitoring Weir Stony River</b> Mt. Storm Power Station Mt. Storm, WV	<b>Patrick W. Flaughner</b> Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV. 26739	\$ 250,000	2009	YES
<b>Fairfield Inn &amp; Suites</b> Weirton, WV	<b>Michael Holtz</b> MPH Hotels 490 East Route 22 North Barrington, IL 60010	\$ 2,500,000 (Estimated)	2009	YES
<b>Deegan &amp; Hinkle Dams</b> Dam Modifications Bridgeport, WV	<b>Tom Brown - City Engineer</b> City of Bridgeport 515 West Main Street Bridgeport, WV 26330	\$ 1,500,000	2008	YES
<b>Flip Bucket Stabilization</b> Mt. Storm Lake Dam Mt. Storm Power Station Mt. Storm, WV	<b>Patrick W. Flaughner</b> Dominion Energy Inc. HC 76 Box 430 Mt. Storm, WV 26739	\$ 750,000	2008	YES

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE) **None**

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program. **Civil Tech provides engineering services to wide range of clients including, the Bridgeport, Charleston, and Oak Hill Offices of the WVDEP-AML, the City of Thomas, City of Bridgeport, NewPage Corporation, Mt. Top PSD, Dominion Generation - Mt. Storm & North Branch Power Stations, Duke Power, Huntersville, NC, WVDNR Parks and Wildlife Sections, American Electric Power - John Amos Plant, WV American Water, and other private concerns and contractors. Current and recent AML projects include AMD, Highwall Reclamation, Portals, Subsidence Abatement, and a waterline extension. Our experience with impoundments, dam breach/reclamation, civil site design, infrastructure, & site grading combined with our AML experience and environmental/permitting knowledge makes our firm most qualified for AML Design Projects.**

20. The foregoing is a statement of facts.



Signature: \_\_\_\_\_ Title: President

Printed Name: Mark E. Pennington

Date: January 14, 2014

AML and RELATED PROJECT EXPERIENCE MATRIX																	PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional				
PROJECT	Exp. Basis C=Corp. P=Personal	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														Mark Pennington	Jennifer Pennington	Robert Kessler	Charles Arthur Jr.	H. Thomas Brown
			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/Managem ent	Water Treatment	Equipment/Structure Removal	Stream Restoration					
Thomas Sunrise Sanitation Mine Drain	C	A		X		X					X		X				M/P	P		P	
Thomas Sunrise Sanitation Mine Blowout	C	A		X	X	X					X		X			X	M/P	P		P	P
Prospect Valley Highwall #4	C	A	X	X	X	X					X		X			X	M/P	P	P	P	P
Winifred (McFann) Portals	C	A		X	X	X					X		X				M/P	P	P	P	P
Douglas WL Extension	C	A									X	X	X				M/P	P	P	P	P
Pines CC Subsidence	C	A				X				X		X	X			X	M/P	P	P	P	P
Cambria Portals & Drainage	C	A		X	X	X					X	X	X			X	M/P	P	P	P	P
Zebbs Creek HW#2	C	A	X			X					X		X			X	M/P	P	P	P	P
Nellis (Smith) Drainage	C	A				X					X		X				M/P	P	P	P	P
Hawkinberry Hollow	C	A	X	X	X	X					X	X	X				M/P	P	P	P	P
Birds Creek Portals	C	A	X	X	X	X					X	X	X			X	M/P	P	P	P	P
Stowe Refuse Piles	C	A	X	X		X					X		X			X	M/P	P	P	P	P
Ridenour Complex	C	A	X	X	X	X					X		X			X	M/P	P	P	P	P
Breaholm (Evans) Portals	C	A	X	X	X	X					X		X			X	M/P	P	P	P	P
Witcher Creek Portals	C	A	X	X	X	X					X	X	X	X	X	X	M/P	P	P	P	P
Turner Slide	P	A	X	X		X					X					X	M/P	P			
Montecarlo Complex	C	A	X	X	X	X				X			X			X	M/P	P	P	P	P
Grafton #4 Refuse and HW	C	A	X	X	X	X				X			X			X	M/P	P	P	P	P
Little Daycamp Branch	C	A	X	X	X	X					X		X			X	M/P	P	P	P	P
Bailey and Lemley Dam Modifications	C	B.3				X					X		X	X		X	M/P	P	P	P	
Fleming Street Stabilization	C	B.4				X					X		X			X	M/P	P	P	P	
Mt Storm Flip Bucket Stabilization	C	B.3				X					X		X	X		X	M/P	P	P	P	

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

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

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

**EXPRESSION OF INTEREST  
CANYON REFUSE & DUMP  
DEP16434**

**SECTION FIVE: TERMS AND CONDITIONS**

Terms and conditions begin on the next page.

**GENERAL TERMS AND CONDITIONS:**

1. **CONTRACTUAL AGREEMENT:** Issuance of a Purchase Order 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 **"Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods and services requested in the Solicitation.
  
  - 2.3 **"Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
  
  - 2.4 **"Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
  
  - 2.5 **"Purchase Order"** 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 successful bidder and Contract holder.
  
  - 2.6 **"Solicitation"** means the official solicitation published by the Purchasing Division and identified by number on the first page thereof.
  
  - 2.7 **"State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  
  - 2.8 **"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.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

**Term Contract**

**Initial Contract Term:** This Contract becomes effective on \_\_\_\_\_ and extends for a period of \_\_\_\_\_ year(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 must be submitted to the Purchasing Division Director 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. Renewal of this Contract is limited to \_\_\_\_\_ successive one (1) year periods. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

**Reasonable Time Extension:** At the sole discretion of the Purchasing Division Director, and with approval from the Attorney General's office (Attorney General approval is as to form only), this Contract may be extended for a reasonable time after the initial Contract term or after any renewal term as may be necessary to obtain a new contract or renew this Contract. Any reasonable time extension shall not exceed twelve (12) months. Vendor may avoid a reasonable time extension by providing the Purchasing Division Director with written notice of Vendor's desire to terminate this Contract 30 days prior to the expiration of the then current term. During any reasonable time extension period, the Vendor may terminate this Contract for any reason upon giving the Purchasing Division Director 30 days written notice. Automatic extension of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases, but Attorney General approval may be required.

**Release Order Limitations:** In the event that this contract permits release orders, a release order may only be issued during the time this Contract is in effect. Any release order issued within one year of the expiration of this Contract shall be effective for one year from the date the release order is issued. No release 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 1095 \_\_\_\_\_ days.



**One Time Purchase:** The term of this Contract shall run from the issuance of the Purchase Order until all of the goods contracted for have been delivered, but in no event shall this Contract extend for more than one fiscal year.

**Other:** See attached.

4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Purchase Order 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. **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.

7. **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.

8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

- BID BOND:** All Vendors shall furnish a 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 . The performance bond must be issued and received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.
- 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 issued and 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.

- 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.
- WORKERS' COMPENSATION INSURANCE:** The apparent successful Vendor shall have appropriate workers' compensation insurance and shall provide proof thereof upon request.
- INSURANCE:** The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:

- Commercial General Liability Insurance:**  
\$1,000,000.00 or more.
- Builders Risk Insurance:** builders risk – all risk insurance in an amount equal to 100% of the amount of the Contract.
- \$2,000,000.00 aggregate
- \$1,000,000.00 Automobile Liability
- \$1,000,000.00 Professional Liability
- 
-

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 above.

**LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

**9. LITIGATION BOND:** The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

**10. ALTERNATES:** Any model, brand, or specification listed herein 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.

**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. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount  
for

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

**13. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Purchase Order, upon receipt.

**14. 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.

**15. 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.

**16. 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.

**17. PAYMENT:** 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, to the Agency at the address on the face of the purchase order labeled "Invoice To."

**18. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

**19. DELIVERY:** All quotations are considered freight on board destination ("F.O.B. destination") unless alternate shipping terms are clearly identified in the bid. Vendor's listing of shipping terms that contradict the shipping terms expressly required by this Solicitation may result in bid disqualification.

**20. INTEREST:** Interest attributable to late payment will only be permitted if authorized by the West Virginia Code. Presently, there is no provision in the law for interest on late payments.

**21. PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Resident Vendor Certification form has been attached hereto to allow Vendor to apply for the preference. Vendor's

failure to submit the Resident Vendor Certification form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

- 22. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid on or after July 1, 2012, 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, women-owned, 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 submission of its bid 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.
- 23. 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.
- 24. 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 cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
- 25. 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.
- 26. TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
- 27. 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.
- 28. COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendors acknowledge that they have reviewed, understand, and will comply with all applicable law.
- 29. PREVAILING WAGE:** On any contract for the construction of a public improvement, Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at <http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx>. Vendor shall be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage

requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.

- 30. 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.
- 31. 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). **No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.**
- 32. 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.
- 33. 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.
- 34. 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. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
- 35. 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.
- 36. 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.
- 37. BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

**38. [RESERVED]**

**39. 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>.

**40. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code § 29B-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. In addition, a legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

**41. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, 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. 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.

**42. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Purchase Order 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.

- 43. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid for the same material, supplies, equipment or services; (2) that its bid 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 RFQ in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid 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 on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid 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.

- 44. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

- 45. 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.

- 46. 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.

- 47. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 48. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to 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"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 49. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire any 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.
- 50. 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 listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.requisitions@wv.gov](mailto:purchasing.requisitions@wv.gov).
- 51. 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.

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

**52. 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:

- a. 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
- b. 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.

**53. 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.

**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:
  - a. 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:** Contracts for architectural and engineering services will be governed by the AIA document B101-2007, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein when procured under Chapter 5G of the West Virginia Code.
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 July 1, 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.

## **SECTION A - ABANDONED MINE LANDS EXPERIENCE**

1. **More than 50 years combined experience with AML Projects:** The principals of Civil Tech Engineering, Inc. have gained AML experience providing professional services to the OSM, WVDEP, and BRIM on abandoned mine lands projects including: Subsidence, Landslides, Mine Drainage, Mine and Refuse Fires, Mine Shafts, Water Impoundments, and Pollution of Ground and Surface Water. **Recent AML Projects performed for the WVDEP AML&R Offices located in Philippi, Oak Hill, and Charleston, WV include:**
  - 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). Bidding complete – Construction 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). Under construction 2013.
  - Witcher Creek Portals and Refuse (DEP15601). Under construction 2013.
  - Ridenour Complex (DEP15598). Construction complete 2013.
  - Braeholm (Evans) Portals & Drainage (DEP15634). Construction complete 2013.
  - Montecarlo Complex (DEP16032). Ready for construction 2014.
  - Grafton #4 Refuse & Highwall (DEP16073) – Final design complete – Permitting Underway.
  - Little Daycamp Project (DEP16033) – Preliminary design complete – Project on hold – Bat Study
  
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 over 1500 projects. Services provided have included: surveying and mapping, subsurface investigations, laboratory analysis, 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:

**Carbondale 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**

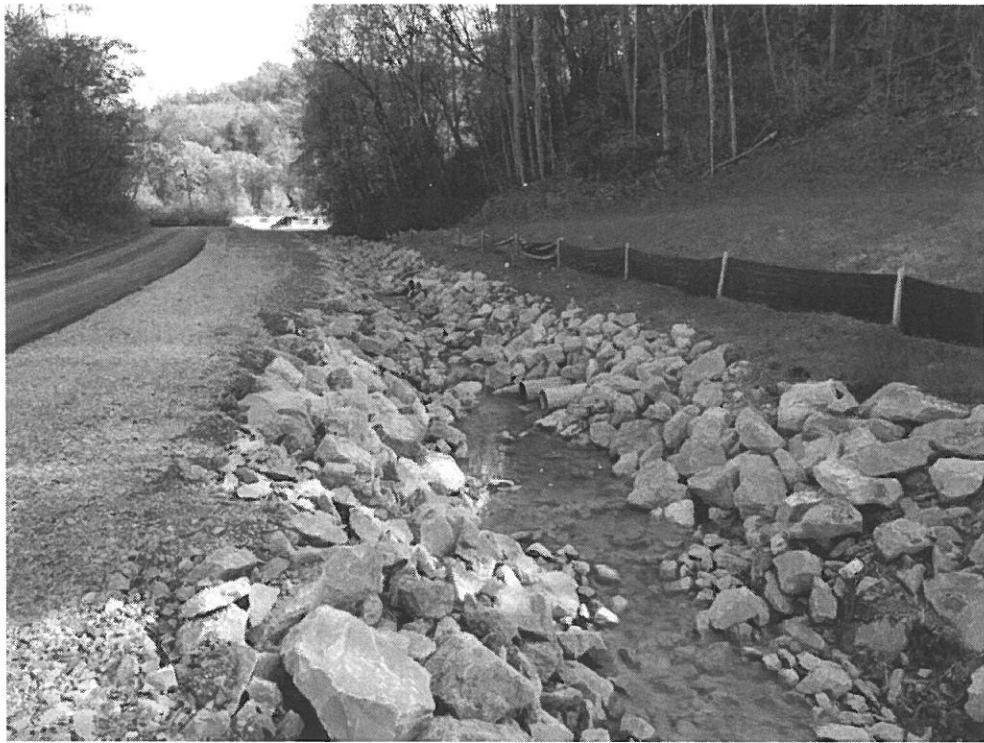


**Thomas Sunrise Sanitation – DEP14171**





**Prospect Valley Highwall #4 – DEP14433**



**Prospect Valley Highwall #4 – DEP14433**



**Prospect Valley Highwall #4 – DEP14433**



**Prospect Valley Highwall #4 – DEP14433**

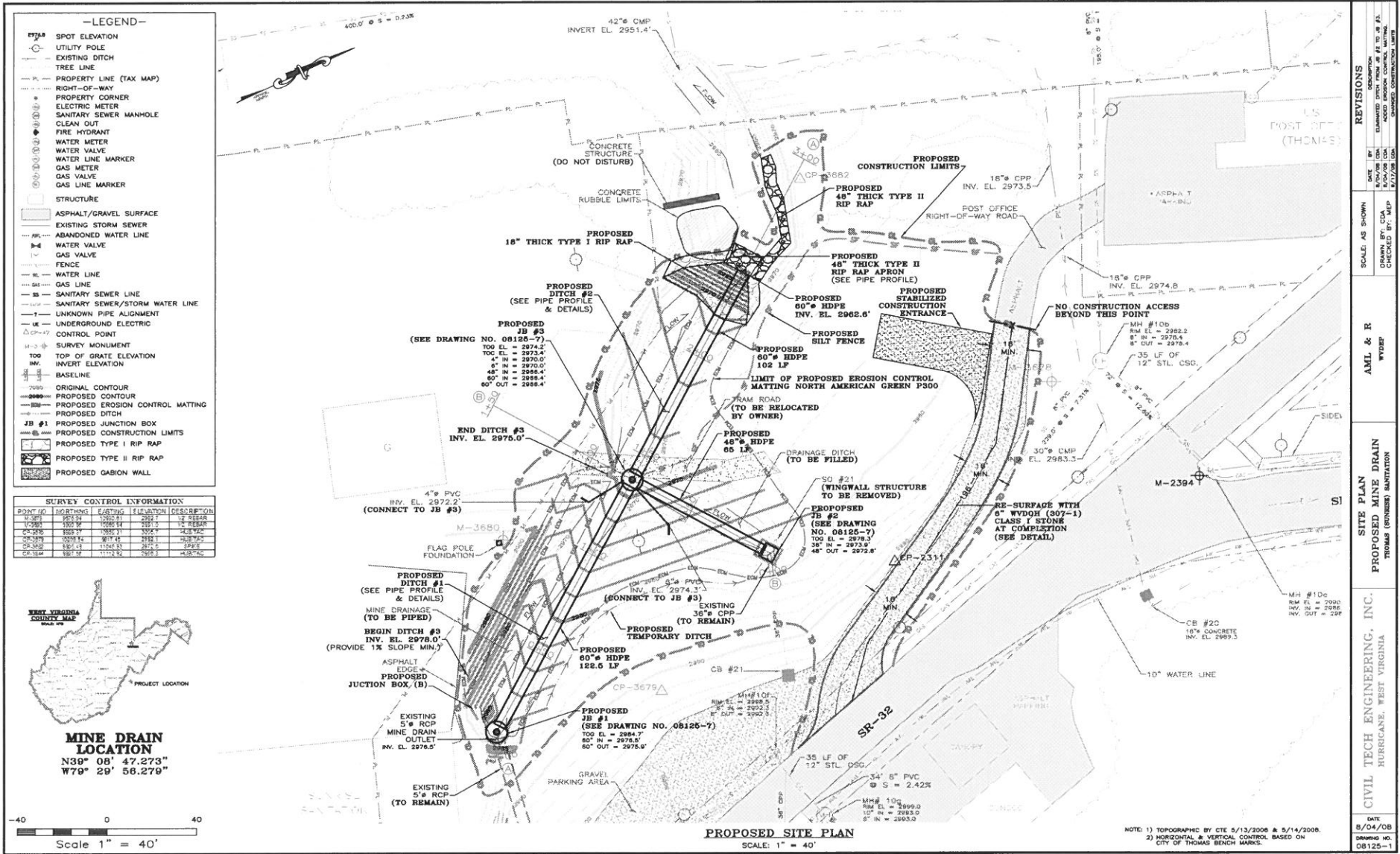


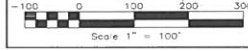
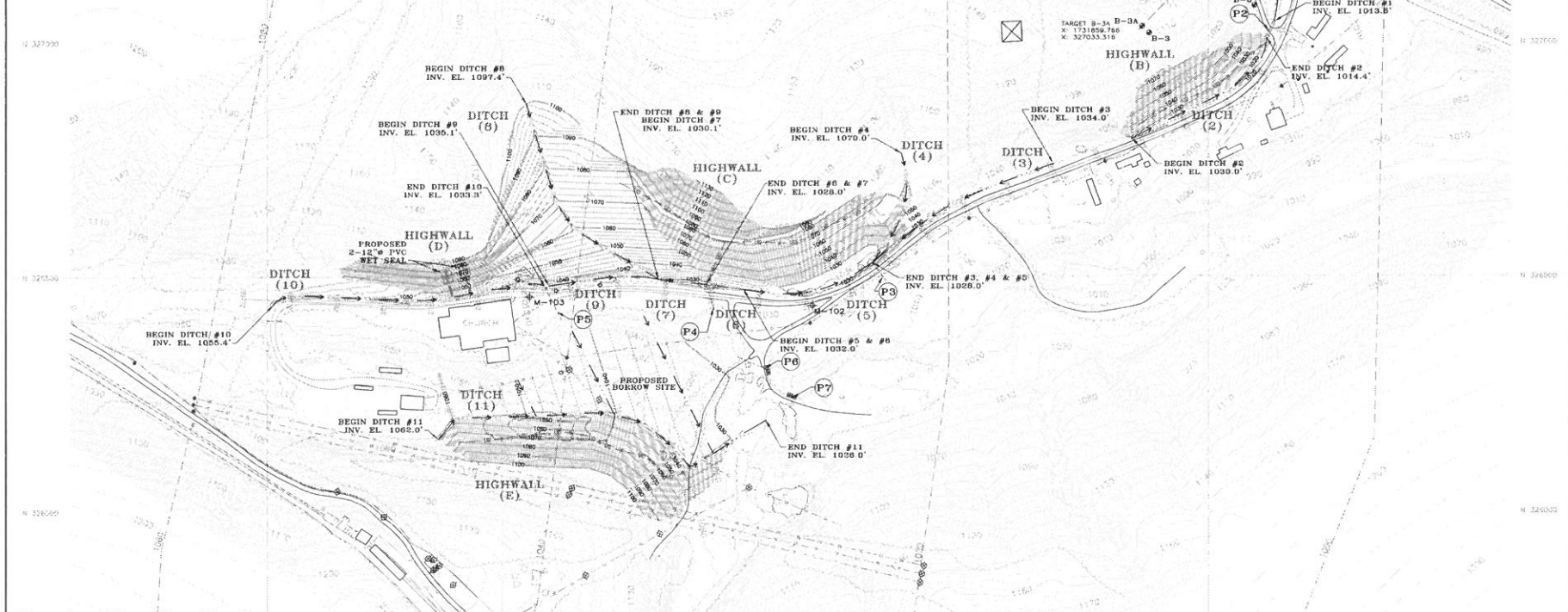
FIGURE 1

LEGEND	
PAVED ROAD	TELEPHONE
UNPAVED ROAD	SPRINKLER
ROAD SHOULDER	MANHOLE
RAILROAD	WATER METER
BIODOME	LOCATED OIL
BUILDING	ROAD SIGN
WALL	TRANSFORMER
STREAM/LAKE	WIRE JUNCTION
CONCRETE	SOIL WELL
PIPE END	TREE LINE
CATCH BASIN	BRUSH LINE
HEADWALL	TREEL/SWALE
MISC. STRUCTURE	CONCRETE
FENCE LINE	DEPRESSION
UTILITY POLE	SPOT ELEVATION
LIGHT POLE	SURVEY CONTROL
SOIL LINE	COAL ELEVATION
BASELINE	BORING LOCATION
MARKED ELEVATION	MARKED ELEVATION
PROPOSED DITCH	PROPOSED CONDUIT
PROPOSED PIPE	PROPOSED PIPE

DITCHING SCHEDULE						
DITCH	DESCRIPTION	LENGTH (L)	SLOPE (S)	START INVERT (PI)	END INVERT (PE)	SURFACE
1	TYPE II	387	0.031	1013.0	1020.8	RP P&P
2	TYPE II	374	0.045	1032.0	1014.4	RP P&P
3	TYPE II	443	0.030	1034.0	1028.0	P300 EROSION CONTROL MATTING
4	TYPE II	257	0.054	1032.0	1028.0	RP P&P
5	TYPE II	286	0.039	1032.0	1028.0	P300 EROSION CONTROL MATTING
6	TYPE II	83	0.040	1032.0	1028.0	P300 EROSION CONTROL MATTING
7	TYPE II	102	0.020	1030.1	1028.0	RP P&P
8	TYPE II	495	0.037	1037.4	1030.1	RP P&P
9	TYPE II	227	0.021	1028.1	1030.1	P300 EROSION CONTROL MATTING
10A	TYPE II	475	0.020	1025.4	1042.9	RP P&P
10B	TYPE II	114	0.020	1040.9	1033.3	RP P&P
11A	TYPE II	47	0.042	1052.0	1050.0	RP P&P
11B	TYPE II	17	0.040	1050.0	1050.0	RP P&P
11C	TYPE II	342	0.024	1050.0	1028.0	RP P&P
11D	TYPE II	331	0.023	1028.1	1028.0	RP P&P
11E	TYPE II	93	0.020	1028.2	1028.0	RP P&P

PIPING SCHEDULE						
PIPE	DESCRIPTION	LENGTH (L)	SLOPE (S)	INVERT (PI)	INVERT (PE)	REMARKS
P1	36" O.D. CPVC PIPE (EXISTING)	85	0.020	1002.8	999.0	
P2	24" O.D. HDPE PIPE (PROPOSED)	45	0.020	1014.4	1015.8	
P3	36" O.D. HDPE PIPE (PROPOSED)	53	0.010	1028.0	1022.5	
P4	30" O.D. HDPE PIPE (PROPOSED)	24	0.040	1028.0	1022.4	
P5	30" O.D. HDPE PIPE (PROPOSED)	30	0.020	1023.5	1027.0	
P6	24" O.D. CPVC PIPE (EXISTING)	70	0.010	1022.8	1021.8	
P7	CONCRETE (EXISTING)	50	0.024	1023.4	1022.4	

SURVEY CONTROL INFORMATION			
POINT NO.	NORTHING	EASTING	ELEVATION / DESCRIPTION
M-102	17241.812	173151.625	1030.73 S.P. REBAR
M-103	17247.801	173202.305	1038.91 S.P. REBAR
M-104	17278.938	173215.033	1012.77 S.P. REBAR
M-105	17252.240	173203.329	1008.72 S.P. REBAR
CP-1	17266.961	173217.832	1017.00 SP.NE
CP-2	17270.740	173204.047	1040.19 SP.NE
CP-3	17220.095	173150.851	1007.28 SP.NE
CP-4	17275.744	173152.745	1119.33 SP.NE
CP-14	17240.453	173167.818	1079.17 SP.NE
CP-21	17220.240	173193.817	1045.72 SP.NE



SITE LOCATION PLAN  
SCALE: 1" = 100'

-PRELIMINARY-  
FOR REVIEW ONLY

REVISIONS DATE BY DESCRIPTION		
SCALE: AS SHOWN DRAWN BY: CCM CHECKED BY: JAP	DATE:	BY:
AML & R W/DEP		
SITE LOCATION PLAN PROSPECT VALLEY HIGHWALL #1 SHREWSBURY, WEST VIRGINIA		
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA		
DATE: 9/18/09 DRAWING NO: 09107-2		

FIGURE 2

## **SECTION B.1 - HISTORY OF FIRM**

- Services:** 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
  
- Background:** 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. Our principals have a combined experience of 55 years in civil and geotechnical engineering.
  
- Typical Projects and Capability:** Since forming Civil Tech, our staff has provided professional engineering services for a variety of clients and projects involving:
  - AML Design Services
  - 48 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
  
- Submittal:** 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 [civiltech1@frontier.com](mailto:civiltech1@frontier.com)



- **Principals:**  
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



- **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 with onboard data collectors.

**RESUME OF MARK E. PENNINGTON**  
**PRESIDENT – CIVIL TECH ENGINEERING INC.**  
**12 - 17 - 13**

**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, Ohio, and North Carolina  
Professional Land Surveyor - West Virginia

**EMPLOYMENT HISTORY:**

Principal Engineer President	-	<b>CIVIL TECH ENGINEERING, INC.</b> February 1996 to Present
Chief Engineer Vice President	-	<b>Heeter Construction, Inc., Spencer, WV</b> February 1996 to April 1997
Principal Engineer Vice President	-	<b>Triad Engineering, Inc., St. Albans, WV</b> September 1980 to February 1996
Staff Engineer	-	<b>American Electric Power Service Corporation</b> -Civil Engineering Laboratory - May 1977 thru July 1978 -Ash Utilization & Research - August 1978 to Sept. 1980

**PERTINENT EXPERIENCE:**

**General:** 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, 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.

Mr. Pennington has provided and directed engineering services on over 1600 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 Power, Huntington Area Development Authority, City of Belington, Culloden PSD, City of South Charleston, City of Thomas, 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:

- Abandoned Mine Land Projects
- Dam Inspection, Design, and Rehabilitation
- 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
- Hazardous Waste Landfill Design/Permitting
- Groundwater Contamination Studies
- Stormwater Design and Control
- Erosion and Sediment Control Design and Permitting
- Surveying and Mapping
- Construction Quality Control
- Construction Contract Administration

**Insurance and BRIM Investigation:** During Mr. Pennington's 36 year career, he has provided professional engineering services to insurance companies including State Farm, Nationwide, St. Paul, Westfield, Travelers, Allstate, Prudential, Hartford, and others. Since 2002, Mr. Pennington has 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.

**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. 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.

**Dam Safety:** Mr. Pennington is qualified in the field of dam safety, rehabilitation, and design. He is responsible for performing over 65 annual safety inspections for various dams and clients throughout West Virginia and surrounding states. Mr. Pennington has been responsible for the design of over 44 dam design and 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 include:

- 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

**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 continues to provide bidding and construction consultation as well as value engineering proposals, waste site design, and other engineering services for Heeter Construction.

**US Army Corps of Engineers:** 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.

**Mine Permitting/Surveying:** 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 18 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 Office of Surface Mining on similar projects. Mr. Pennington has 28 years of pertinent experience with the abatement of mine related problems.

**RESUME OF JENNIFER E. PENNINGTON**  
**PRINCIPAL ENGINEER**  
12-31-12

**EDUCATION**

BSCE - Civil Engineering - 1988 - University of Kentucky

**CERTIFICATION/REGISTRATION**

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

**EMPLOYMENT HISTORY**

<b>Principal Engineer</b>	Civil Tech Engineering, Inc., St. Albans, WV March 1996 to Present
<b>Senior Engineer</b>	Triad Engineering, Inc., St. Albans, WV, 1988 to 1996

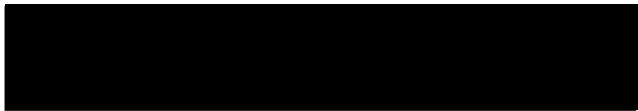
**PERTINENT EXPERIENCE**

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 8 AML projects since 2008. Ms. Pennington has been responsible for project management on these and many other large scale projects including design and extensive geotechnical/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, 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-Present 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

1987-1991                      Advanced Surveys, Inc                      Prince Fredrick, MD

**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                      Tribble 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 Professional Engineer License

West Virginia Professional Surveyor License

**Professional memberships**

American Society of Civil Engineers

North Central West Virginia Highway Engineers

**RESUME OF CHARLES D. ARTHUR, Jr.**  
**SENIOR DESIGNER**  
**10 - 18 - 11**

**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 2000 and 2004, design modeling using Eagle Point 99 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 Dec 1994 **First Choice Equipment** Ashland, VA  
*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:

- **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
- 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 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 H. THOMAS DIBACCO**

### **ENVIRONMENTAL ENGINEER**

#### **EDUCATION:**

B.S. Environmental Engineering-2000-Kennedy Western University.  
Electronic Systems-DeVRY Institute of Technology  
Fairmont State College-1961-1963

#### **CERTIFICATION/REGISTRATION:**

Class 1 Public Water Supply Operator  
Supervisory Development Program  
Radiation Safety  
FCC General License  
Visual Emissions EPA Method 9

#### **EMPLOYMENT HISTORY:**

Virginia Power  
Environmental Compliance Coordinator Mt. Storm Power Station,  
North Branch Power Station 1966 to June 2000.

Civil Tech Engineering, Inc.  
Project Manager July 2000 to present.

#### **PROFESSIONAL EXPERIENCE:**

Air pollution permits PSD Title 5  
Water pollution control NPDES  
Hazardous waste management  
Lake management  
Dam safety inspections  
Alternate energy source development  
Consultant wind energy development  
Advisor for Dominion Energy  
Advisor wind energy program James Madison University  
Representative for Springhouse Energy Systems  
Biological studies with Ohio State University  
Engineering and development of ash storage facilities and haul roads

Environmental awareness training  
Supervised activities of GAI Engineering  
Ground water monitoring  
Environmental audits.  
Wastewater treatment (1500gpt to150,000gpd)  
Storm water sampling  
Spill prevention control and countermeasures  
Solid waste management  
Environmental inspections with WV Office of Air Quality, EPA, WVDEP.

**PERTINENT EXPERIENCE:** Mr. DiBacco has worked extensively with water and wastewater treatment systems at Mt. Storm Power Station, the North Branch Power Station, and the City of Thomas. As Environmental Compliance Coordinator at both the Mt. Storm Power Station and the North Branch Power Station, Mr. DiBacco has considerable experience in all areas of Environmental Regulations. He is also experienced in dam safety requirements. Mr. DiBacco was Project Manager for the Thomas Dam Modifications Project and is currently working on the Teter Creek Dam Modification Project. He has worked as an advisor/consultant for Dominion Energy, Springhouse Energy Systems, James Madison University and Ohio State University. During his employment with Virginia Power he was involved with construction of haul roads and ash storage facilities and alternate energy development.

**RESUME OF ROBERT R. KESSLER**  
**GEOLOGIST**  
**11 - 11 - 10**

**EDUCATION:**

B.S. - Geology - 1965 - Ohio University  
Post Graduate Work - 1965 to 1966 - Geology - Ohio University  
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.

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.

## **SECTION B.2 - CIVIL DESIGN**

- Design:** Our principals and key personnel have been responsible for developing civil design drawings including site grading plans, highway access, storm water and mine drain piping and controls, highwall and portal reclamation, storm water rail road crossings, erosion control, sanitary sewer collection and treatment, lift stations, retaining walls, parking layout, sidewalks, handicap access, utilities, permits, specifications, and bid documents 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
  - 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

- Cost Estimating:** Cost estimates are routinely prepared for our civil design projects.

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

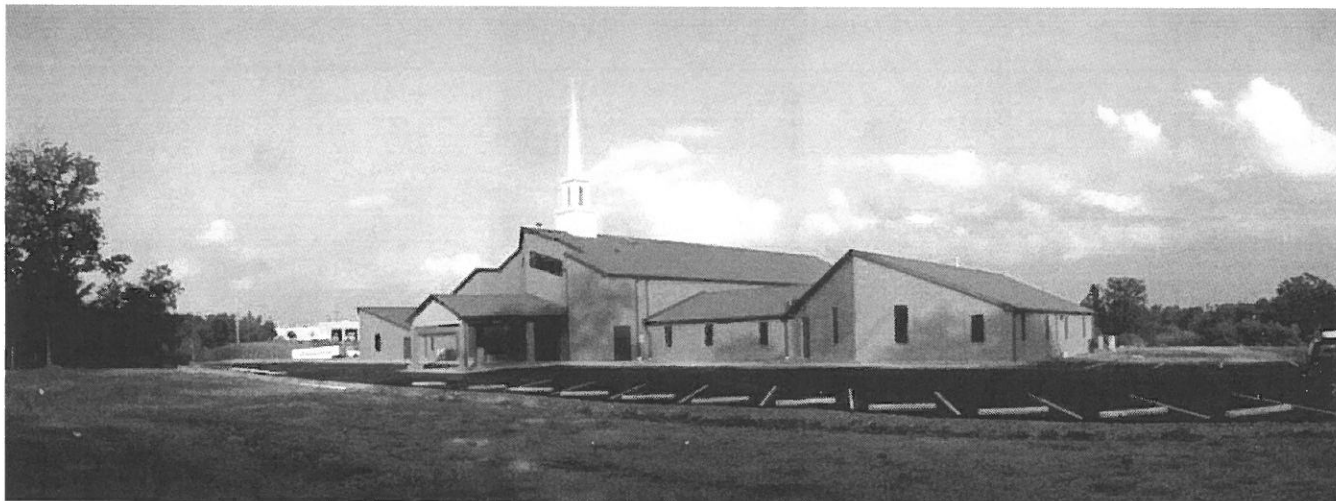
Our engineers have extensive experience in cost estimating and bidding gained on projects which were bid and successfully constructed. This experience was gained by Mark Pennington estimating costs for construction projects for competitive bidding while working for Heeter Construction, of Spencer, West 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,

while employed with Heeter Construction.

- Civil Project Photographs: Photographs of some of our recent projects follow this section of the submittal.
- Sample Project Drawings: 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



**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

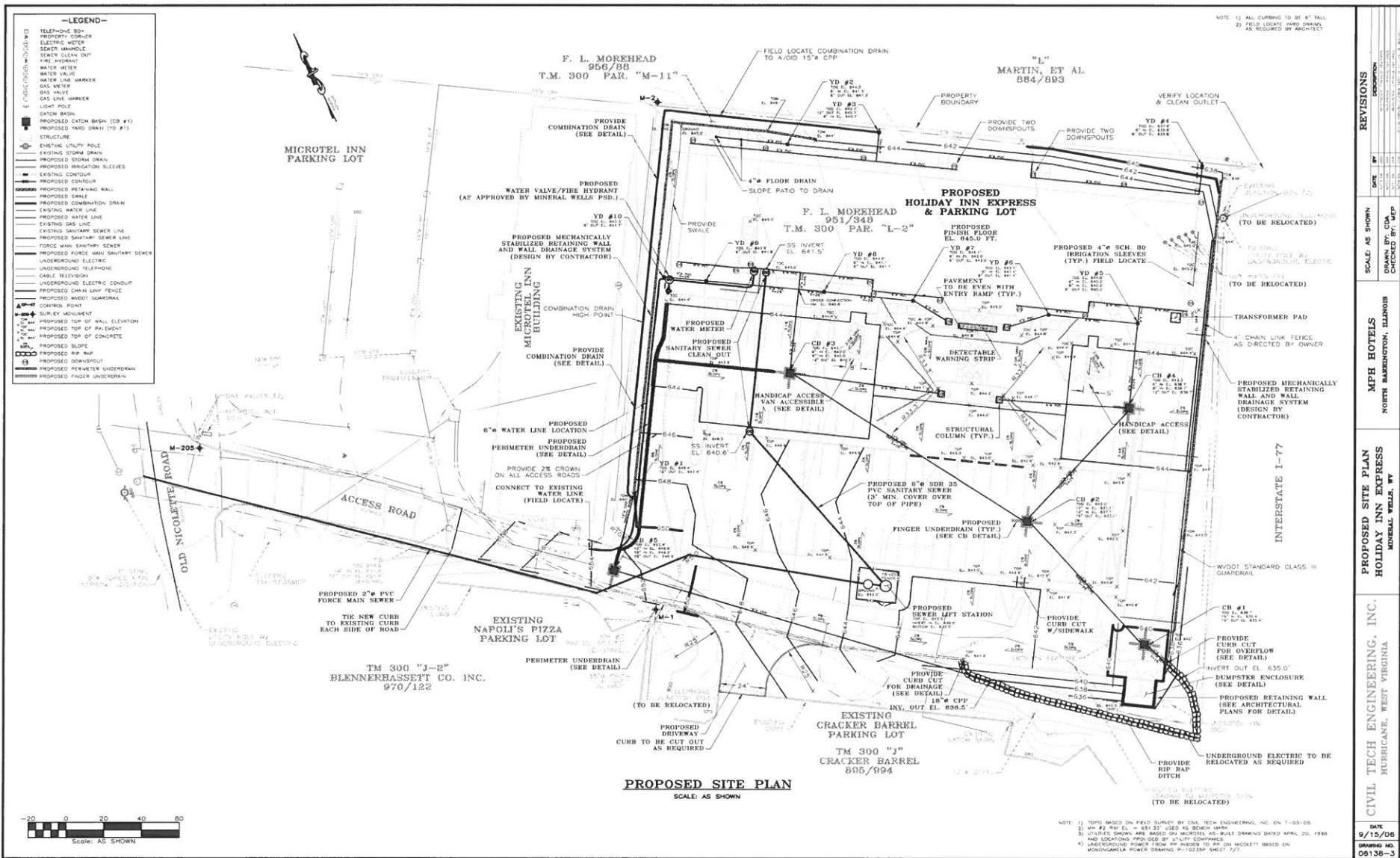


FIGURE 3

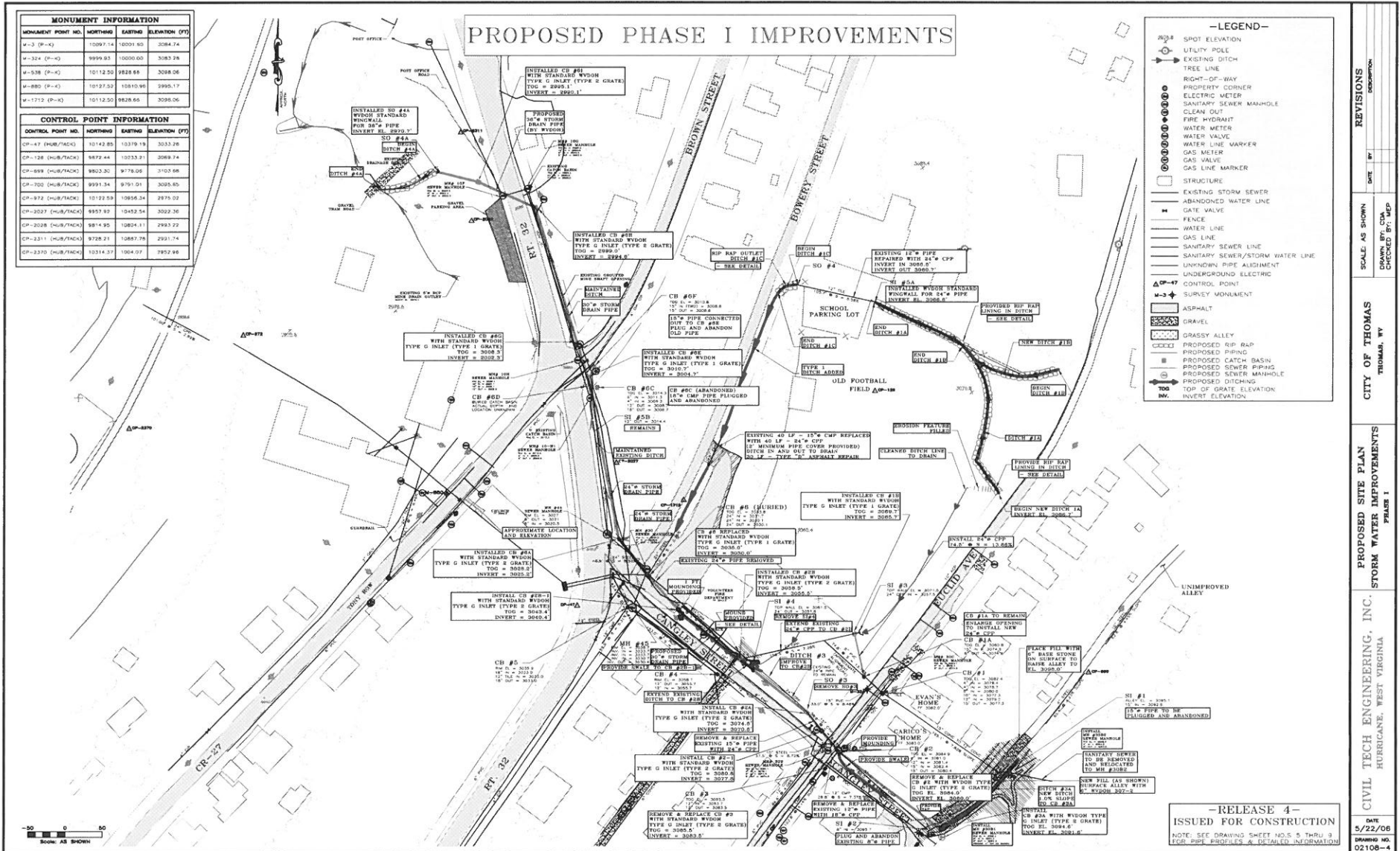
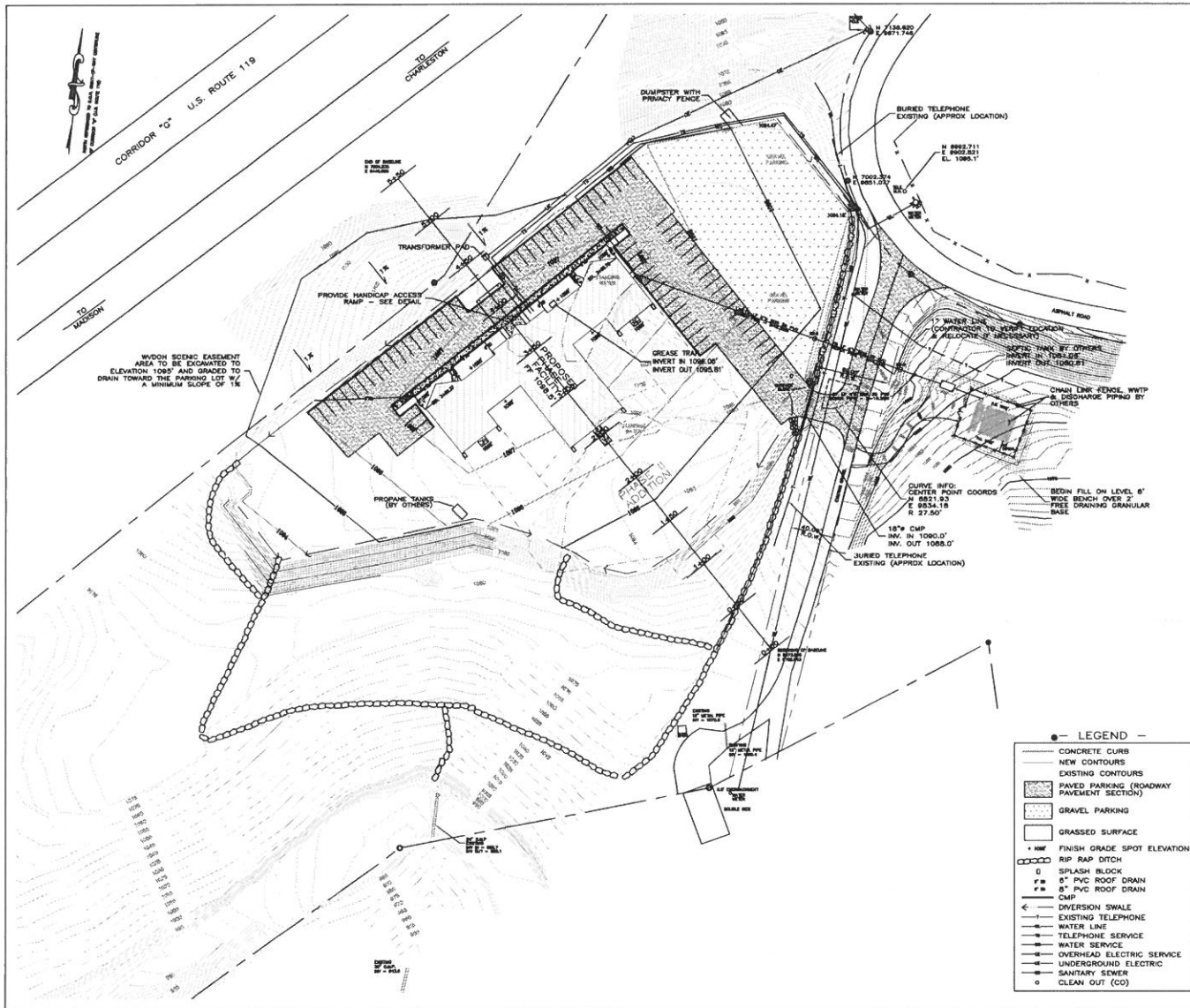


FIGURE 4



REVISIONS		
DATE	BY	DESCRIPTION
8/9/00	BDJ	CHANGED SEWER PIPE LOCATION EXTING THE BUILDING
9/20/00	RMK	RELOCATED WATER AND SEWER LINES ENTERING/EXITING BUILDING. ADDED WWTP SURVEY/PLANT LOCATION

- SITE WORK GENERAL NOTES:**
- Utility locations are approximate. Contractor to verify before beginning work. Utilities: Electric: American Electric Power - Phone: 304-748-5505. Water: WVA American Water Co. - Phone: 304-345-8802. Telephone: Bell Atlantic - Phone: 304-954-8202.
  - Foundation Investigation: A foundation investigation was performed by CIVIL TECH Engineering, Inc. in July 1997. The report is referred to the Foundation Investigation report dated December 30, 1997 for specific details. The results of the investigation do not constitute a warranty of subsurface conditions within the construction area, and the Engineer or Owner will not be responsible for interpretations or conclusions drawn therefrom by the Contractor. The Contractor is responsible for reviewing the construction documents, examining the site, determining the conditions under which the work is to be performed, and conducting such additional investigations as he deems necessary for bidding, planning, and execution of the work.
  - Excavation: Excavation of both soil and rock will be necessary to develop the site. Hard rock will shall be excavated from the excavation, starting at a minimum of 1 foot below the excavation. Entry into excavations deeper than 5 feet is not allowed without approved shoring or shoring.
  - Fill: Fill shall consist of suitable soil or rock material obtainable from site excavations as approved by the Engineer. Fill shall be placed in maximum 8 inch lifts. The fill shall be compacted to 95% of the maximum dry density as determined by ASTM D698, or as approved by the Engineer. The fill material shall be free of rocks or other debris. The fill shall be placed on a surface or ground-water shall be the responsibility of the Contractor. Subgrade must be approved by the Engineer before fill placement begins. Care shall be taken to not allow the fill to be placed on the fill-site may settle during fill placement. Fill shall not be placed on existing fill areas due to potential for settlement or slippage.
  - Rip Rip: Rip rip shall consist of a durable hard rock material produced from granite excavations, rip rip may be obtained from an off-site or commercial source. Rip rip shall consist of a coarse aggregate or limestone well graded with a maximum and minimum particle size of 8 to 18 inches.
  - Waste Material: Excess soil/rock material not needed for site development shall be disposed of off-site at an approved borrow area, unless an on-site reuse area is approved by the Engineer. The Contractor shall comply with all environmental and erosion/sediment control requirements for the waste area imposed by the regulatory agencies.
  - Pavement: Base stone shall consist of WDOT 307-1 (Class 1) Stone. Asphaltic wearing course shall consist of WDOT Wearing 1 mix. Asphaltic topcoat, subbase and bedding shall consist of WDOT 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.
  - Dumpster Pad: The dumpster pad shall be constructed of concrete with a minimum 28 day compressive strength of 4000. Concrete shall be cast and cured and shall comply with ACI 318 for material, mixing, placement, testing, and acceptance. Rebar shall be grade 60.
  - Sewer Piping (Building to Septic Tank Only): Piping shall consist of SDR 35 PVC with bell and socket connections. Fittings shall be molded plastic suitable for solvent welding. Install with minimum slope 0.25% and provide a cleanout with sanitary tee where the piping leaves the building and at 500 feet intervals thereafter. Backflow preventer to be installed at 3 feet from the top of the pipe. The Contractor will be responsible for installing the sanitary sewer line complete including 10 feet from the building and extending to within 5 feet of the septic tank as shown on the design drawings.
  - Water Service Piping: Water service piping shall extend from the water meter to be installed by WVA American Water to within 5 feet of the building or where on the same. Water service line shall be installed at a minimum depth of 4 feet below finish grade. Service piping shall comply with ANSI C900 or C905 or Polyethylene (PE) pressure pipe and tubing or Polyethylene (PE) pressure pipe and tubing. PE shall be installed in accordance with ASTM D2774. Pipe joints shall comply with ASTM D2875. Backflow preventer shall be installed at 3 feet from the building and immediately connected to the main or the supply line for the building. The line shall be closed by plug or cap. The service line shall be pressure tested in accordance with ANSI standards and as approved by the Engineer. After pressure testing the service line shall be distributed as required by the Engineer.
  - Curb: WDOT Plain Curb - Type 1 as modified on the detail.
  - Foundations: Design foundations for allowable bearing pressure of 3000 psf. Extend all foundations to bear on bedrock. Minimum foundation depth to be 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.
  - Building Floor Slab: The slab shall be underlain by 6 inches of compacted dry bed material to be approved by the Engineer.
  - Storm Water Piping: Piping shall be corrugated metal. Piping shall be fully espoused coated and furnished with a wall thickness of 0.079 inches and corrugations of 2-2/3 x 1 1/2 inches.
  - Electrical: AEP will furnish and install all underground cable, power pole, and transformer. The general contractor will pay for the work directly at the agreed upon price. The underground cable 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. Conduit shall consist of 2 to 3 inch diameter PVC pressure pipe having a minimum of 28 inches above ground extending between the power pole and within 5 feet of the building as shown on the drawings. Underground sections shall be supported 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 codes.
  - Telephone: Underground telephone cable shall be installed in conduit as required by Bell Telephone. The Contractor will provide the trench and conduit. Trenching shall be a minimum of 36 inches deep and conduit shall be as required by the telephone company.
  - Roof drain piping to consist of Schedule 40 PVC with molded fittings and couplings suitable for solvent welding. Piping to be installed with a minimum slope of 1%.
  - Refer to architectural drawings for building dimensions and layout.
  - All disturbed areas to be revegetated in accordance with the WDOEP Section 602. Lower end to be Type C-2. Fill and soil slopes to be Type C-2. Table 602-3 and 602-4.
  - E & S measures to comply with the approved General Permit issued by the WDOEP OWR.
  - Refer to sheets 97206-2 thru 97206-3.

NOTE: SURVEY PERFORMED BY SITE BLAINE ENGINEERS

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

**SITE PLAN**

**FIRST CHURCH OF GOD**  
KANAWHA COUNTY, WEST VIRGINIA

DRAWING NO. 97206-5	SCALE: NTS
DATE: APRIL, 2000	DRAWN BY: RMK CHECKED BY: MEP

FIGURE 5

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

- **Civil Tech Experience:** Civil Tech's dam experience over the last 17 years has included 37 Dam Modification Projects ranging in cost from \$ 50,000 to \$ 1,500,000. **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.** Civil Tech Dam Projects are listed 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
33. Berwind Dam Modification, Berwind WMA

34. Long Branch Dam Modification, Pipestem State Park
  35. Mt. Storm Gate Modification, Mt. Storm Power Station
  36. Jimmy Lewis Drain Pipe Repairs, Pinnacle Rock State Park
  37. Reservoir and Park Dams, Cacapon State Park
- Certificates of approval have been applied for and approved by the WVDEP on 28 projects.
  - Our projects include; new dams, rehabilitation, flood damage repair, and emergency repair.
  - Periodic Safety Inspections are routinely performed on over 60 dams.
  - Past Experience:** Prior to forming Civil Tech in 1996, our principals were responsible for:
    - 11 Dam Modification Projects ranging in cost from \$ 300,000 to \$ 1,300,000. These dams are listed below:
      1. Jimmy Lewis Dam, Mercer Co., WV
      2. Plum Orchard Dam, Fayette Co., WV
      3. Boley Dam, Babcock State Park
      4. Anawalt Dam, Anawalt, WV
      5. Warden Lake Dam, Hardy Co., WV
      6. Burches Run Dam, Moundsville, WV
      7. Castlemans Run Dam, Wheeling, WV
      8. No. 1 Impoundment, Union Carbide
      9. No. 2 Impoundment, Union Carbide
      10. No. 3, Impoundment, Union Carbide
      11. Mill Creek Dam, Columbia Gas
    - Certificates of Approval were obtained for all projects.
    - Numerous Safety Inspections were also performed.
  - Awards:** **First recipient of the WVDEP Environmental Excellence Award 2010 – Safe Dams Category.**
  - Innovation:** Civil Tech specializes in the use of innovative techniques including the use of Roller Compacted Concrete in dam rehabilitation. We have successfully completed seven dam rehabilitation projects using RCC in West Virginia.

- Breach Analysis and Risk Assessment:** Civil Tech has successfully used breach 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.
  
- Project Photographs:** Representative photographs and sample drawings illustrating our Dam Rehabilitation experience are included herein.





**THOMAS DAM MODIFICATION, THOMAS, WV**



**TETER CREEK DAM MODIFICATION, BARBOUR CO., WV**

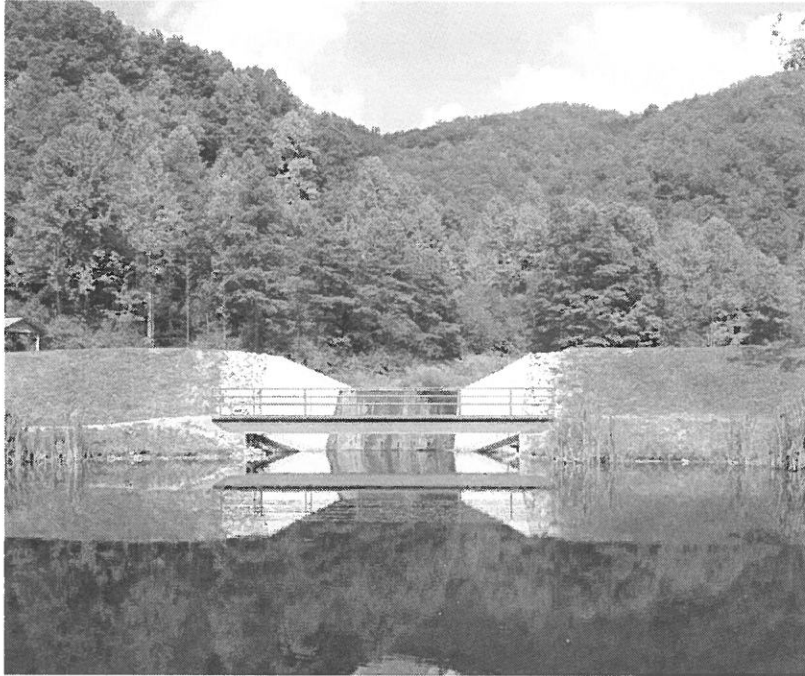


**BELINGTON DAM MODIFICATION, BELINGTON, WV**



**WILSON DAM MODIFICATION, HAMPSHIRE CO., WV**

CIVIL TECH ENGINEERING INC. "Attention to Detail"



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



**BAILEY DAM MODIFICATION, MONONGALIA CO., WV**



**LEMLEY DAM MODIFICATION, MONONGALIA CO., WV**



**MONCOVE DAM MODIFICATION, MONROE CO., WV**



**SENECA DAM MODIFICATION, POCAHONTAS CO., WV**



**PLUM ORCHARD DAM MODIFICATION, FAYETTE CO., WV**



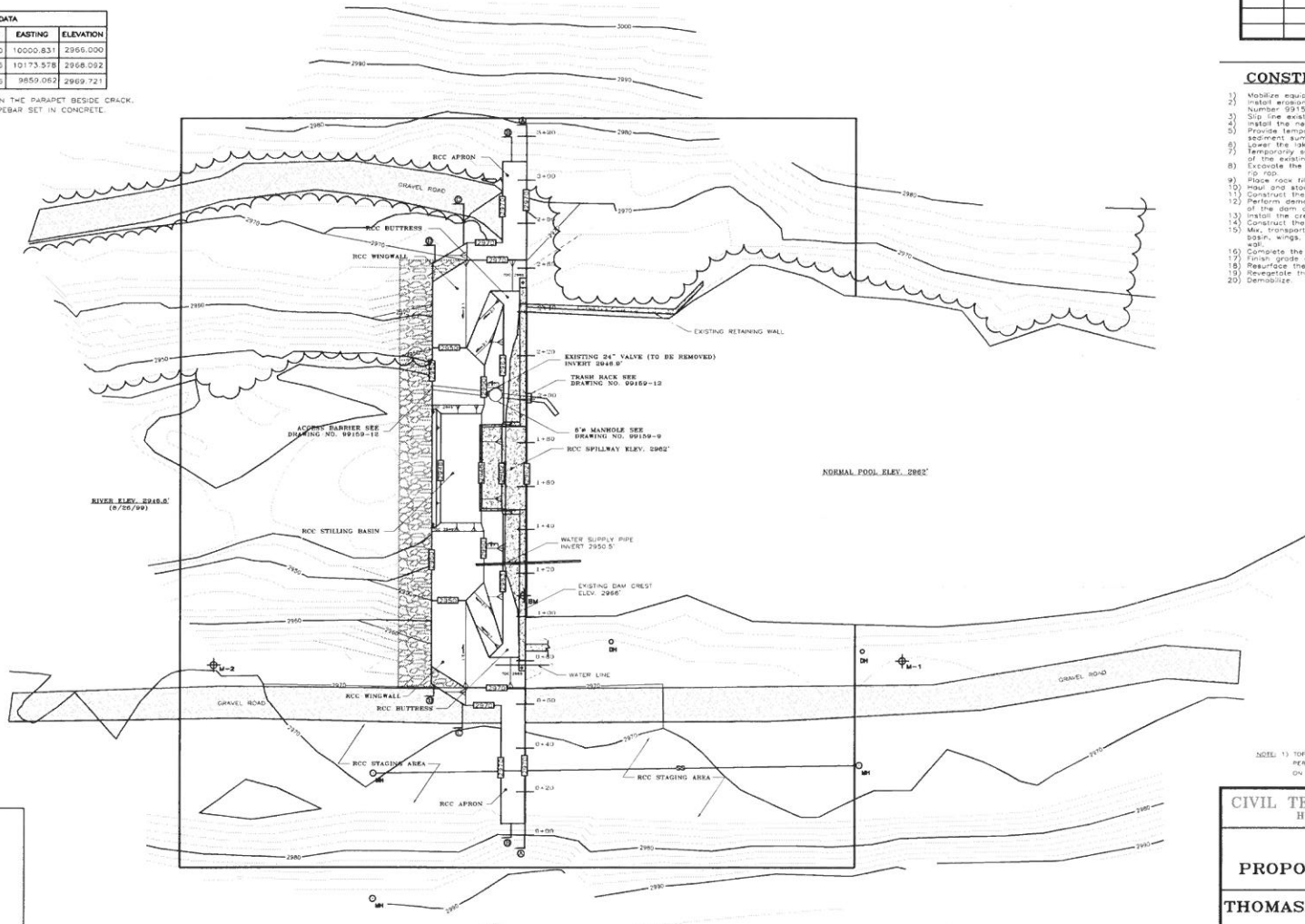
**JIMMY LEWIS DAM MODIFICATION, MERCER CO., WV**



**WARDEN LAKE DAM MODIFICATION, HARDY CO., WV**

SURVEY DATA			
MONUMENTS	NORTHING	EASTING	ELEVATION
BM	10039.590	10000.831	2866.000
M-1	10009.986	10173.578	2868.092
M-2	10007.946	9859.062	2869.721

NOTE: BENCH MARK IS A "X" IN THE PARAPET BESIDE CRACK. MONUMENTS ARE 3/8" REBAR SET IN CONCRETE.



REVISIONS		
DATE	BY	DESCRIPTION

- CONSTRUCTION SEQUENCE**
- 1) Mobilize equipment, materials, and labor force to the site.
  - 2) Install erosion and sediment control measures. See Drawing Number 99159-4 for details.
  - 3) Set line existing drain pipe with new WDRP pipe.
  - 4) Install the new drain loops and manhole base.
  - 5) Provide temporary piping from the new valve to the sediment sump.
  - 6) Lower the lake level as required but no more than 10 feet.
  - 7) Temporarily seal the upstream face of the dam in the area of the existing leaks by grouting.
  - 8) Excavate the base of the buttress, stilling basin, wings, and abutment.
  - 9) Place rock fill.
  - 10) Haul and stockpile aggregate for the RCC.
  - 11) Construct the downstream cut off wall.
  - 12) Perform demolition as required to remove necessary parts of the dam and install the crest seal.
  - 13) Install the crest seal.
  - 14) Construct the RCC test pad.
  - 15) Mix, transport, place, and compact the RCC in the stilling basin, wings, buttress, and the abutment apron and cut off wall.
  - 16) Complete the valve and manhole.
  - 17) Finish grade around the new dam structure.
  - 18) Resurface the roadway.
  - 19) Revegetate the site.
  - 20) Demobilize.

**—LEGEND—**

	WATER SURFACE
	EXISTING CONTOUR
	RCC SURFACE
	FINISH CONTOUR
	CONSTRUCTION LOTS
	R.F. MARK
	SURVEY MONUMENT
	EXISTING DAM
	DRY WELLS
	SEWER MANHOLE
	TREE LINE

NOTE: 1) TOPOGRAPHIC MAPPING BASED ON FIELD SURVEY PERFORMED BY CIVIL TECH ENGINEERING, INC. ON 5-26-99, 6-27-99, 9-23, AND 9-24-99

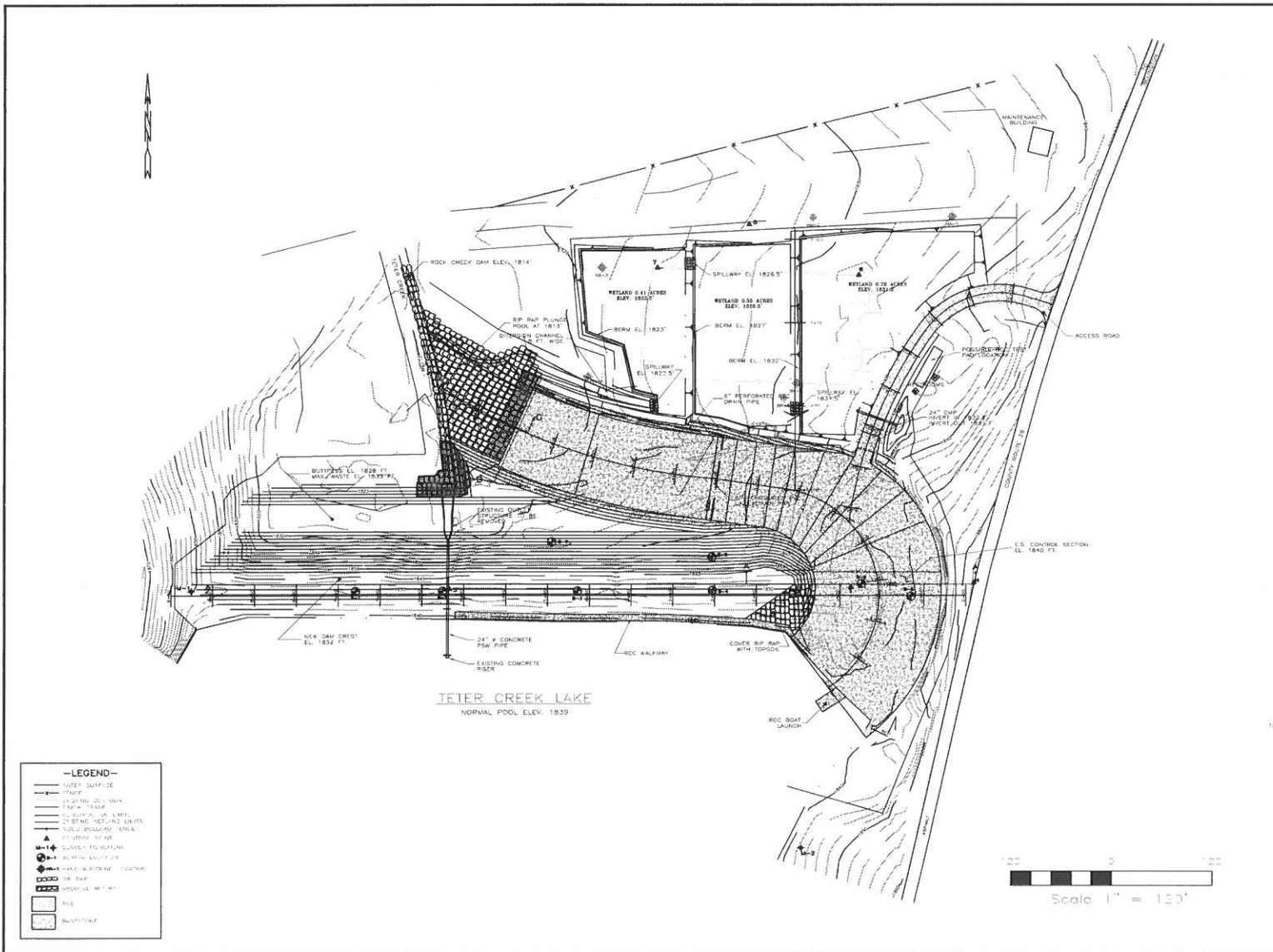
**CIVIL TECH ENGINEERING, INC.**  
HURRICANE, WEST VIRGINIA

**SITE PLAN  
PROPOSED MODIFICATIONS**

**THOMAS DAM MODIFICATIONS  
THOMAS, WV**

DRAWING NO.: 99159-8	DATE: JANUARY, 2000	SCALE: 1" = 50'
REVISED:	CHECKED:	DRAWN BY: CDA, CHECKED BY: MEP

FIGURE 6



REVISIONS		
DATE	BY	DESCRIPTION
11-10-89	JCH	REVISIONS TO ELEVATIONS OF DAM AND SPILLWAY
1-12-90	JCH	REVISIONS TO ELEVATIONS OF DAM AND SPILLWAY
3-16-90	MEP	ADDED 1 MA

SURVEY DATA			
CONTROL POINT	EASTING	NORTHING	ELEVATION
1	9502.055	8222.020	1848.999
2	8821.024	8586.084	1849.414
3	8519.756	8897.425	1816.617
4	8176.204	9184.935	1827.767
5	8873.888	8887.450	1839.188
6	9075.713	8672.894	1852.745
7	8767.401	8582.448	1849.115
8	8277.841	8590.401	1852.685
9	8270.612	8587.175	1844.216

SHEET 4 OF 4 PAGES

LEGEND	
	WATER SURFACE
	24" CONCRETE RISER
	COVER 24" CONCRETE RISER WITH TOPSOIL
	ROCK CHECK DAM
	RIP RAP FILLING POOL
	COVER RIP RAP WITH TOPSOIL
	ROCK BOAT LAUNCH
	ROCK
	ROCK PILE
	ROCK CHECK DAM

REVISIONS:  
 1) REVISIONS TO DAM AND SPILLWAY ELEVATIONS  
 2) REVISIONS TO ELEVATIONS OF DAM AND SPILLWAY  
 3) REVISIONS TO ELEVATIONS OF DAM AND SPILLWAY  
 4) SEE DRAWING NO. 88114-2 FOR SECTION 1-1

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

**SITE PLAN  
 PROPOSED MODIFICATIONS**

**TETER CREEK LAKE DAM  
 HARBOUR COUNTY, WEST VIRGINIA**

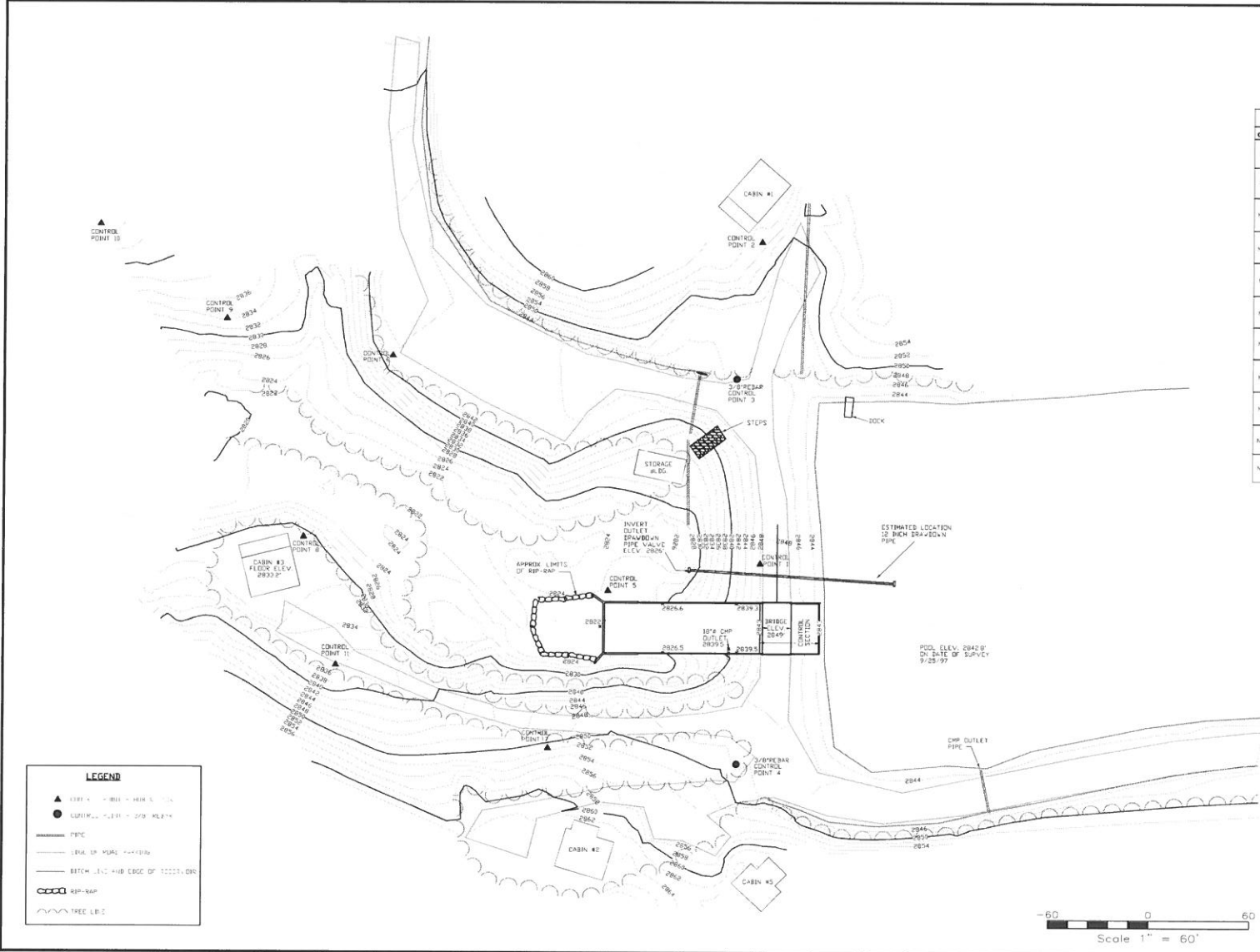
DRAWING NO.: 88114-7	SCALE: 1" = 120'
DATE: APRIL 8, 1990	DRAWN BY: JCH, RMW CHECKED BY: MEP

FIGURE 7



REVISIONS		
DATE	BY	DESCRIPTION

CONTROL POINT SUMMARY			
CONTROL POINT NO.	NORTHING	EASTING	ELEVATION (FT.)
NO. 1 (HUBSTACK)	10003.03	10003.03	2848.13
NO. 2 (HUBSTACK)	10192.86	10003.03	2855.01
NO. 3 (3/8" PIPE BAR)	10110.45	9985.29	2846.60
NO. 4 (3/8" PIPE BAR)	9879.14	9985.92	2847.55
NO. 5 (HUBSTACK)	9983.93	9929.21	2826.47
NO. 6 (HUBSTACK)	10244.14	9789.62	2843.52
NO. 7 (HUBSTACK)	9888.81	9874.29	2851.31
NO. 8 (HUBSTACK)	10055.62	9726.86	2836.93
NO. 9 (HUBSTACK)	10446.44	9686.52	2834.30
NO. 10 (HUBSTACK)	10002.83	9625.65	2845.61
NO. 11 (HUBSTACK)	9930.87	9746.83	2825.78



LEGEND	
▲	CONTROL POINT - HUBSTACK
●	CONTROL POINT - PIPE BAR
—	PIPE
—	EDGE OF ROAD
—	BENCH MARK - HIGH CORNER OF 10000' DN
○	SEP-RAP
⌋	TREE L.P.C.



CIVIL TECH ENGINEERING, INC.  
HURRICANE, WEST VIRGINIA

**SITE PLAN**

**SENECA LAKE DAM**  
POCAHONTAS COUNTY, WV

DRAWING NO.: 97185-B	DATE: OCTOBER, 1997	SCALE: 1" = 60'
REVISED BY:	CHECKED:	DRAWN BY: JEP CHECKED BY: MEP

FIGURE 8

## **SECTION B.4 - GEOTECHNICAL/SURVEYING**

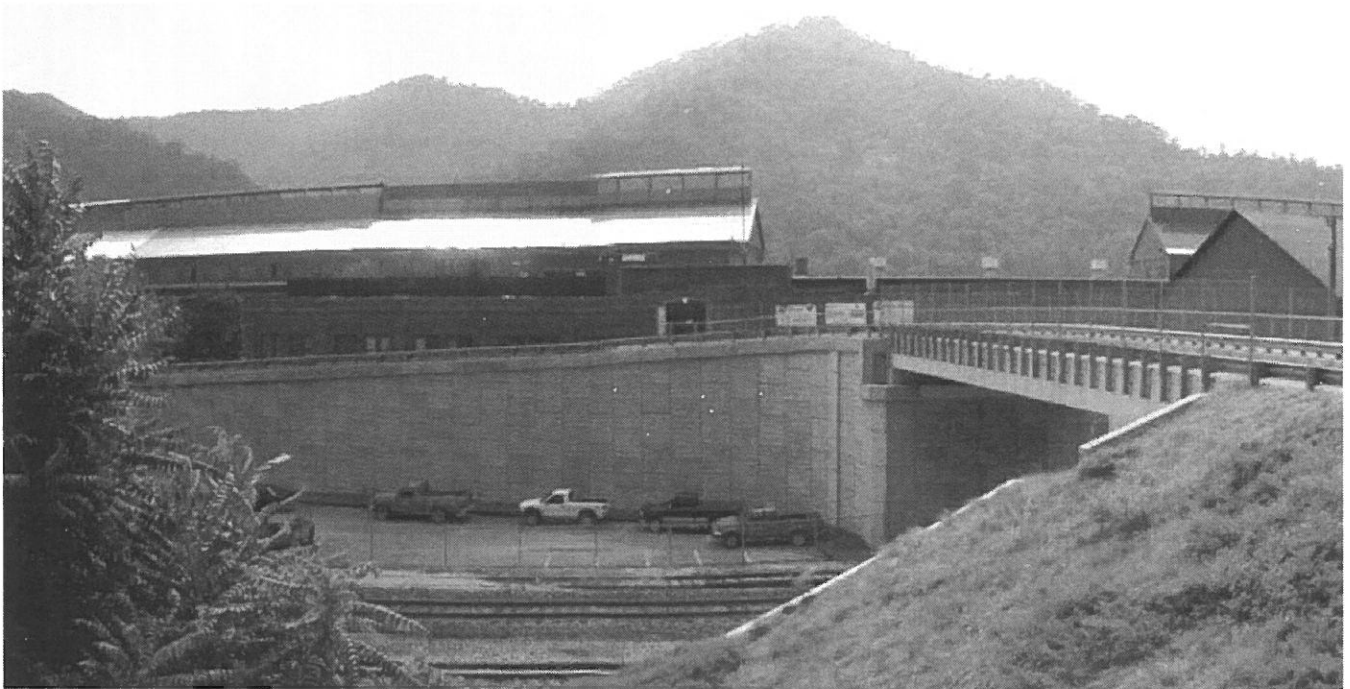
- Civil Tech Experience:** Geotechnical engineering is a small, but important part of our business because so much of our work related to dams depends on geotechnical sampling, testing, and analysis. Our principals have a very strong background in this discipline from our history at Triad Engineering. 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
  
- Past Experience:** 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
  
- Surveying and Mapping:** Surveying and mapping services are performed by our in-house 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



**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



**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

RFQ No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

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

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

**DEFINITIONS:**

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

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

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

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

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: Civil Tech Engineering Inc.

Authorized Signature: [Signature] Date: 12-19-13

State of WV

County of Putnam, to-wit:

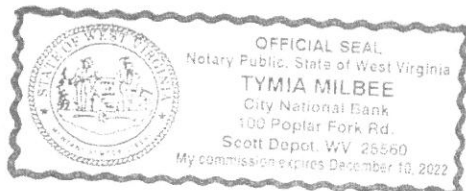
Taken, subscribed, and sworn to before me this 19 day of December, 2013

My Commission expires 12-10-22, 20    

**AFFIX SEAL HERE**

NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 07/01/2012)

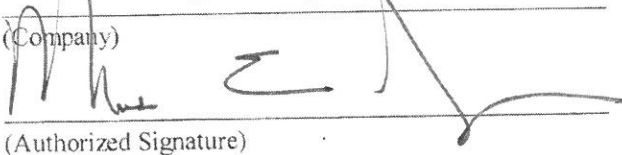


**CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety, understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

**Civil Tech Engineering Inc.**

(Company)



(Authorized Signature)

**Mark E. Pennington, President**

(Representative Name, Title)

**304-757-8094**

(Phone Number)

**304-757-8095**

(Fax Number)

**January 14, 2013**

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: DEP16434**



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

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

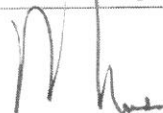
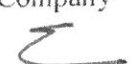
**Addendum Numbers Received:**

(Check the box next to each addendum received)

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

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

Civil Tech Engineering Inc.

	Company
	Authorized Signature

January 14, 2013

Date

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