



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

Request for Quotation

RFQ NUMBER
DEFK11038

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE 304-558-2544

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION

 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/08/2011				

BID OPENING DATE: 06/16/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 2		
				1. QUESTIONS AND ANSWERS ARE ATTACHED. 2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.		
				END OF ADDENDUM NO. 2		
0001	1	JB		968-20		
				UTILITY EXTENSION PROJECT ELKINS ARMED FORCES CENTER		
				***** THIS IS THE END OF RFQ DEFK11038 ***** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she 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/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors 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, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will 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 the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

Capitol Engineering, Inc.

ADDENDUM #2

RE: Elkins AFRC Utility Extension
West Virginia Army National Guard
Elkins, West Virginia
DEFK11038

TO: Prospective Bidders

FROM: Capitol Engineering, Inc.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.

PART 1 – PRE-BID MEETING MINUTES AND ATTENDANCE SHEETS ARE ATTACHED TO THIS ADDENDUM.

PART 2 – CLARIFICATIONS

- A. Site inspection of the Penn-Virginia property is scheduled for Monday, June 13, 2011 at 2:00 p.m. Meet Mr. Neil Linger of ETB Architects at the Elkins AFRC project site. There will be no questions acknowledged or accepted during the site inspection.
- B. Test pit logs and soil test results for this project are attached to this addendum.
- C. Contractor is responsible for all permit and license fees required to complete the project. The following is a list of anticipated fees:
 - 1. WVDEP Construction Stormwater Notice of Intent - \$300.
 - 2. Water tap fee, N-H-J PSD - \$800.
 - 3. Sewer tap fee, Town of Junior - \$600.
 - 4. Any other licenses, fees, or permits required to complete the scope of work.
- D. Contractor to provide all information and documents required by the attached letter from the Norton-Harding-Jimtown Public Service District (N-H-J PSD).

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- E. Contractor to provide all information and documents required by the attached letter from the WVDOH.
- F. Contractor will be required to execute an "Indemnification and Hold Harmless" agreement. An example of the agreement is attached.
- G. Copy of approval letter for this project from the West Virginia Department of Health is attached.
- H. Contractor shall assist and coordinate with March-Westin and the West Virginia State Fire Marshal's office for approval of fire pump and storage tanks to allow occupancy of the AFRC.
- I. Responses to Pre-Bid Meeting questions.
 - 1. *What is the depth of over-excavation for Bid Item #11?* THE DEPTH FOR THIS PAY ITEM IS 18 INCHES AS SHOWN ON THE ATTACHED OVER-EXCAVATION DETAIL.
 - 2. *Is a field office required?* YES, PLEASE REFER TO SPECIFICATION SECTION 01500, "TEMPORARY FACILITIES", SUBSECTIONS 2.2.B AND 2.2.C.
 - 3. *What is the price of water from N-H-J PSD?* THE PRICE AND POLICIES FOR OBTAINING WATER FOR THIS PROJECT WILL BE DETERMINED AT THE NEXT BOARD MEETING OF THE N-H-J PSD AT 7:00 P.M. ON JUNE 13, 2011. YOU MAY CALL THE PSD THE FOLLOWING DAY AT 304-636-6223 (OFFICE), 304-636-3457 (PLANT) AND OBTAIN THIS INFORMATION.
 - 4. *What do we do with stumps?* REFER TO REVISED SPECIFICATION SECTION 02230, "SITE CLEARING" SUBSECTION 3.2, "CLEARING AND GRUBBING" ATTACHED TO THIS ADDENDUM.
- J. Responses to Requests for Information.
 - 1. *The tank spec section #10815, Subsection 2.2.A.6 requires Balconies. Would a 360 degree roof top handrail be acceptable in place of the 360 degree balcony?* YES

PART 3 – CHANGES TO BID DOCUMENTS

- A. Remove Certificate of Liability Insurance example and replace with copy attached.
- B. Remove and replace Section I of the Bid Form with the revised Section I of the Bid Form attached. Changes are the contract duration and performance period for certain aspects of the work.
- C. Change **Description** for Bid Item #5 in Section III of Bid form to read: "This work shall consist of the removal of trees and other vegetation, topsoil stripping and stockpiling,

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removal of existing utilities, installation of temporary utilities, and clearing and grubbing of all areas disturbed by the Contractor. **All trees within the right-of-way between waterline station 40+80 and the end shall be removed. The right-of-way must also be passable by an on-road four-wheel-drive stock vehicle at the conclusion of the project.** This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work."

PART 4 – CHANGES TO SPECIFICATIONS

- A. Delete specification section 10815, "Water Storage Steel Tanks" subsection 2.2.A.6, "Balconies".
- B. Remove and replace Specification Section 02230, "Site Clearing" with the attached. The changes deal with Subsection 1.4, "Material Ownership" and Subsection 3.5, "Clearing and Grubbing".

PART 5 – CHANGES TO DRAWINGS

- A. Add Over-Excavation Detail.

NO ADDITIONAL QUESTIONS WILL BE ACKNOWLEDGED OR ACCEPTED

End of Addendum

Attachments: Pre-Bid Meeting Minutes
 Pre-Bid Meeting Attendance Sheets
 Test Pit Logs
 Soil Test Results
 Norton-Harding-Jimtown Public Service District Requirements Letter
 WVDOH Requirements Letter
 Indemnification and Hold Harmless Agreement
 WVDHHR Permit #18,762
 Certificate of Liability Insurance Example
 Section I of the Bid Form
 Specification Section 02230, "Site Clearing"
 Over-Excavation Detail

C&FMO-WVARNG

Pre-Bid Meeting Minutes
Elkins AFRC Utility Extension
07 June 2011

Project Number: DEFK11038
Date of Pre-Bid Meeting: 02 June 2011
Time of Pre-Bid: 1330
Location of Pre-Bid: Elkins AFRC project site near Elkins, WV

1. Administrative

- A. The Pre-bid meeting for the subject contract was held 2 June 2011 at 1330 hrs, at Elkins, WV.
- B. Mandatory pre-bid attendance - Sign-In.
- C. Funding: Federally and State funded, State administrated project.
- D. User: West Virginia Army National Guard.
- E. Administrator: Construction & Facilities Management Office, WVARNG.

2. Principals

A. C&FMO

- 1) Address
1703 Coonskin Drive
Charleston, WV 25311
- 2) LTC David Shafer, CFMO (not present)
(304) 561-6539
- 3) CPT Daniel Clevenger, EN, Chief, Design & Construction (not present)
Email: Daniel.Clevenger@us.army.mil
(304) 561-6446
- 4. John Abbott, Project Manager
Email: john.h.abbott@us.army.mil
(304) 561-6774
- 5. COL Gary Blackhurst, Environmental Program Management Officer (not present)
(304) 561-6445(o) (304) 561-6458 (fax)

B. Division of Purchasing

Ms. Tara Lyle (not present)
Email: Tara.L.Lyle@wv.gov
(304) 558-2544 (office)
(304) 558-4115 (fax)

C. Designer of Record

E.T. Boggess Architects, Inc
101 Rockledge Ave
Princeton, WV 24740
(304) 425-4491 (office)
(304) 425-2028 (fax)

3. Bidding Issues

- A. Questions must be submitted to Purchasing Division, attention Ms. Lyle via email (tara.l.lyle@wv.gov) no later than COB (1630) 6 June 2011.
- B. Direct discussion is not authorized with the Designer of Record, the Facilities Engineer, or the Project Manager.
- C. State Prevailing Wage Rate Applies.
- D. Bid Opening is set for the date described in the state issued RFQ documents and any addendums that may be issued, at 1:30 PM.
- E. Change Orders: The only changes authorized or reviewed by the Owner will be:
 - 1) Owner directed.
 - 2) Unforeseen site conditions.
- F. Government assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the Government. Conflicts in drawings, clarifications, and/or lack of clarity shall be the responsibility of the Contractor after Bid Award. The Contractor is responsible to seek clarification prior to bidding if they believe there is a conflict or lack of clarity.
- G. Government assumes no responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding or representation is expressly stated in this contract. The solicitation and specification remain unchanged regardless of what is said at the pre-bid conference unless they are changed by formal amendment to the solicitation.

4. Federal Relationship

- A. Review General Provision 1, "Relationship of the Federal Government".

5. Work Hours/ Site Access-Security

- A. The Contractor will have access to the site from 0700 to 1800 hrs, Monday to Friday. If work hours must be modified, these will be approved on a case-by-case via the Project Manager and the Designer of Record.
- B. Contractor is required to provide to the Project Manager, a listing of personnel, which will be gaining access to the site at the first pre-construction meeting. *(Section 01040-1.03.E)*.
- C. Superintendence: In accordance with Contract documents, the Contractor must maintain full-time, active superintendent on the job. Duties of the superintendent will be identified at the first pre-construction meeting. *(Section 01040-1.3.E)*.

6. Temporary Facilities/Utility Usage

- A. Temporary Facilities *(Section 01100)*.
- B. Utility Usage.

7. Utility Interruptions

- A. Required to give 72 hour notification to Project Manager (after approval/coordination with affected utility).
- B. Notifications must include the following information:
 - 1) Who.
 - 2) What.
 - 3) When.
 - 4) Why.
 - 5) Where.
- C. Utility Interruptions can last no longer than six (6) hours, unless otherwise stated in the specifications.
- D. Utility Interruptions must be scheduled after 1800 hours and must end by 0400 hours, unless otherwise stated in the specifications.

8. Contract Duration / Liquidated Damages

- A. Contract Duration: Duration of the contract is as stated in the specifications from the NTP with milestones.
- B. Liquidated Damages: \$500 per day plus one time fixed cost of \$1,250 for Staff Judge Advocate Review. Per Article 9.11.1 Supplement General Provisions and GP 54, "Liquidated Damages".

9. Safety

- A. All construction activities will be in conjunction with OHSA, Safety and Health Requirements Manual (US Army Corps of Engineers). As noted, the Army safety and health standards mirror OHSA. All construction activities on site will be a hardhat area and marked as such.
- B. Access to the site will be restricted and controlled by the Contractor. A visitor's sign-in and hardhats to be made available for personnel visiting site.
- C. Temporary fueling operations: Any temporary fueling operation will be maintained in accordance with OHSA and WV Fire Marshall Standards to included secondary containment, fire extinguishers, and spill control.
- D. Cleanup required daily by each perspective sub and General Contractor: No open dumps of construction materials. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property. Crushed pavement, gravel and clean soil may be given to nearby landowners with written approval from the C&FMO.

10. Supervision of Work

- A. Designer of Record will have the responsibility for the observation of Contractor's quality of work. The Designer of Record will provide recommendations for actions regarding progress payments, change orders, and acceptance of work.

11. Aspects of Contract

- A. Modification Procedures.
- B. Project Coordination (Correspondence).
- C. Cutting and Patching.
- D. Meetings.
- E. Submittals.
- F. CPM Construction Scheduling.
- G. Materials and Equipment.
- H. Warranties.

12. Substitutions

- A. Substitution requests must be submitted prior to the end of the Question Submission period.
- B. Substitution requests will only be considered when one or more of the following applies:

- 1) Extensive revisions to the Contract Documents are not required.
 - 2) Proposed changes are in keeping with the intent of the Contract Documents.
 - 3) The request is timely, fully documented and properly submitted.
 - 4) The specified product or method cannot be provided within the Contract Time. The Architect will not consider the request if the specified product cannot be provided as a result of failure to pursue the Work promptly.
 - 5) The request is related to an "or-equal" clause.
 - 6) A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. Such additional responsibilities for the Owner may include additional expenses for redesign and evaluation services, increased cost of related construction, and other similar considerations.
 - 7) The specified product cannot receive approval by a governing authority, and the substitution can be approved.
 - 8) The Contractor's submittal and the Architect's review or approval of Shop Drawings, Product Data or Samples that relate to a substitute does not by itself constitute a final approval of the requested substitution, nor does it relieve the Contractor from fulfilling existing Contract Requirements. Final approval will be granted by the Owner and confirmed in the form of a Change Order.
- C. Approval of Material Submittals shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance as stated in (d) below.
- D. If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the submittals, at the time of submission. If the Contracting Officer shall issue an appropriate contract modification, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.

13. Summary of Work

- A. Project Description: Mr. Fuller of Capitol Engineering, Inc. discussed the scope of work.
- 1) Work will be constructed under a single prime contractor.
 - 2) Contractor shall have full use of premises for construction operations, subject to limitations and requirements of the West Virginia Army National Guard.
 - 3) Contractor is responsible for keeping driveways and entrances serving the premises clear and available for the Owner's use.
 - 4) Review the scope of work for subject project.
 - 5) Purchasing Documents:

- (a) General insurance/bonds from prime contractor shall be submitted within 48 hours upon request. Copies should be provided to CFMO. For the subcontractors, copies of insurance due prior to start of work.
 - (b) Drug Free Compliance Affidavit.
- 6) Environmental Issues/comments:
- (a) On-site Burning/Waste Disposal.
 - (b) Spills of fuels: The Contractor must notify the Owner of any fuel spills as soon as possible.
 - (c) Reporting Procedure.
- 7) Construction Storm Water Notice of Intent is a Contractor responsibility.
- 8) Sediment Erosion Control Measures:
- (a) Need copies of inspections made by DEP.
 - (b) BMPs must be maintained throughout project.
- B. Items for Discussion:
- 1) Project site consists of WVDOH ROW, ROW on two private tracts (Penn Va and Polino), and the WVARNG tract.
 - (a) Route follows existing utilities from near Bob's Hot Dogs to foot of hill.
 - (b) ROW includes overhead electric starting at foot of hill.
 - (c) Lift station, fire pump, and water tanks are all on WVARNG property.
 - 2) Project limits overlap with Elkins AFRC project.
 - (a) Field office/Staging area will be at lift station/tank location.
 - (b) Elkins AFRC will be complete first, but not all tie-in points may be available until substantial completion.
 - (c) March Westin is the prime contractor for the Elkins AFRC project.
 - (d) Allegheny Power will be installing electric service after clearing and grubbing is complete. They have priority access to the ROW.
 - 3) Project schedule is aggressive and will require supplier coordination prior to NTP.
 - 4) Water and sewer tap fees will be paid by the contractor - currently assumed at \$1400 total.
 - (a) Water - assume \$800.
 - (b) Sewer - assume \$600.
 - 5) Contractor is responsible for quality control.
 - 6) Water tank foundation design must be based on 1,000 psf soil or contractor can perform test boring and submit results for approval.
 - 7) Lift station and sanitary force main will be taken over by the Town of Junior after acceptance.

- 8) Water line will be taken over by Norton-Harding-Jimtown PSD after acceptance.
- 9) Some excavation is expected to occur in sandstone.
- 10) Four contingency bid items to deal with wet or soft soil conditions - not expecting to use much of these items.
 - (a) Soil drying - Lime addition to soil stockpile.
 - (b) Soil conditioning - Lime addition to top 12" layer of soil.
 - (c) Subsurface drains - 24" of #57 stone wrapped in geotextile with drain pipe.
 - (d) Over-excavation - Biaxial geogrid and 18" #1 stone.
- 11) Contractor must register project with WVDEP construction stormwater Notice of Intent prior to beginning work (\$300 registration fee).
- 12) Not a LEED project - no building.
- 13) Not in city limits - no B&O taxes.
- 14) No burning and no blasting.

14. Questions and Answers.

15. Closing Comments

- A. Meeting notes will be published through state purchasing, along with clarifications to contract documents.
- B. Any further questions between now and bid award must be directed to Ms. Tara Lyle at State Purchasing via email (tara.l.lyle@wv.gov) no later than COB 6-June-2011.

16. Site walk.

PLEASE PRINT

PRE-BID SIGN- IN SHEET / PLEASE LEAVE A BUSINESS CARD		TELEPHONE & FAX NUMBERS
FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	
Company: <u>Orange Construction</u>	<u>170 Old Cheat Road</u>	PHONE <u>304-291-6765</u>
Rep: <u>Don Luzzier</u>	<u>Morgantown, WV 26508-4107</u>	TOLL FREE
Email Address: <u>orangeconst@yahoo.com</u>		FAX <u>304-291-6975</u>
Company: <u>Triple H Coat</u>	<u>PO Box 176</u>	PHONE <u>304-636-1194</u>
Rep: <u>Chuck Harper</u>	<u>Beverly, WV 26253</u>	TOLL FREE
Email Address: <u>none given</u>		FAX <u>304-636-3680</u>
Company: <u>Capitol Valley Contracting</u>	<u>67 Renee Drive</u>	PHONE <u>304-437-4505</u>
Rep: <u>Chris Allen</u>	<u>Elkview, WV 25071</u>	TOLL FREE
Email Address: <u>mickey@capitolvalley.com</u>		FAX <u>304-965-2223</u>
Company: <u>Welding, Inc.</u>	<u>1712 Pennsylvania Avenue</u>	PHONE <u>304-346-0763</u>
Rep: <u>LeRoy Brown</u>	<u>Charleston, WV 25302</u>	TOLL FREE
Email Address: <u>weldinginc@aatt.net</u>		FAX <u>304-343-5498</u>
Company: <u>Dan J Hill Construction</u>	<u>PO Box 685</u>	PHONE <u>304-632-1600</u>
Rep: <u>Chris Dozier</u>	<u>Gauley Bridge, WV 25085</u>	TOLL FREE
Email Address: <u>cdozier33@yahoo.com</u>		Cell: <u>304-553-1553</u>
		FAX <u>304-632-1501</u>

PLEASE PRINT

PRE-BID SIGN-IN SHEET / PLEASE LEAVE A BUSINESS CARD		TELEPHONE & FAX NUMBERS
FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	
Company: Green River Group	PO Box 18039	PHONE 304-594-3991 ext 15
Rep: Tanya Markley	Morgantown, WV 26507	TOLL FREE
Email Address: tracysecurtis@yahoo.com		FAX 304-594-3992
Company: ALL Construction, Inc.	PO Box 232	PHONE 304-693-7131
Rep: Steve Sauro	Mt. Storm, WV 26739	TOLL FREE
Email Address: adlesimston@frontier.com		FAX 304-693-7199
Company: American Civil Inc.	310 Dents Run Road	PHONE 304-296-2356
Rep: John Verno	Morgantown, WV 26501	TOLL FREE
Email Address: jrv@americancivil.com		FAX 304-292-4606
Company: WV/DOH		PHONE
Rep: Todd Schoonover		TOLL FREE
Email Address: todd.a.schoonover@wv.gov		FAX
Company: WV/DOH		PHONE
Rep: JD Blackburn		TOLL FREE
Email Address: none given		FAX

SIGN IN SHEET

PLEASE PRINT

PRE-BID SIGN-IN SHEET / PLEASE LEAVE A BUSINESS CARD		TELEPHONE & FAX NUMBERS
FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	
Company: <u>Moundview Contractors, Inc</u>	<u>P.O. Box 6666</u>	PHONE (304) <u>329-2127</u>
Rep: <u>Jason C. Workman</u>	<u>Kingwood, WV 26037</u>	TOLL FREE
Email Address: <u>jason.workman@moundview.com</u>		FAX (304) <u>529-2206</u>
Company: <u>Smith Backhoe & Digger</u>	<u>7 11th Street</u>	PHONE <u>304 636 3320</u>
Rep: <u>Neil Smith</u>	<u>Elkins WV 26241</u>	TOLL FREE
Email Address: <u>smithbackhoe@frontier.com</u>		FAX <u>304 636 3314</u>
Company: <u>WV DOH</u>	<u>PO Box 1516</u>	PHONE (304) <u>637-0220</u>
Rep: <u>JD Blackburn</u>	<u>Elkins WV 26241</u>	TOLL FREE
Email Address: _____		FAX _____
Company: <u>MARCI WESTON</u>	<u>360 Frontier St</u>	PHONE <u>304-599-9080</u>
Rep: <u>Eric Miller</u>	<u>Morgantown, WV 26505</u>	TOLL FREE
Email Address: <u>emiller@marciweston.com</u>		FAX <u>304-599-7509</u>
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____

SIGN IN SHEET

PLEASE PRINT

PRE-BID SIGN-IN SHEET / PLEASE LEAVE A BUSINESS CARD		TELEPHONE & FAX NUMBERS
FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	
Company: <u>DAURITA Inc.</u>	<u>302 Deuts Run Rd</u>	PHONE <u>304-296-7531</u>
Rep: _____	_____	TOLL FREE _____
Email Address: <u>KRISTI@DAURITA.COM.</u>	_____	FAX <u>304 296-4606</u>
Company: <u>J.F. Allen Company</u>	<u>P.O. Box 2049</u>	PHONE <u>304-460-7424</u>
Rep: <u>Alan Shreve</u>	<u>Buckhannon, WV 26201</u>	TOLL FREE _____
Email Address: <u>ashreve@jfalco.com</u>	_____	FAX <u>304-460-7994</u>
Company: <u>Kengen GC Corp</u>	<u>1161 Pine St</u>	PHONE <u>304-738-3300</u>
Rep: <u>Steve Kengen</u>	<u>Cumberland St East</u>	TOLL FREE _____
Email Address: <u>Steve.Kengen@kengen-gc.com</u>	<u>Whiteford WV 26767</u>	FAX <u>304-738-3384</u>
Company: _____	_____	PHONE _____
Rep: _____	_____	TOLL FREE _____
Email Address: _____	_____	FAX _____
Company: _____	_____	PHONE _____
Rep: _____	_____	TOLL FREE _____
Email Address: _____	_____	FAX _____



Capitol Engineering, Inc.
 1206 Kanawha Blvd E, Suite 201
 Charleston, WV 25301

LOG of TEST PIT No. 1

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil with roots		
1'				Clayey gravel with sand, brown, very moist, sandstone and shale gravel, fine to coarse grained sand		
1'6"						
2'						
2'6"						
3'						
3'6"				Fractured sandstone cobbles		
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

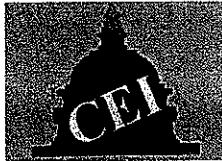
Surface Elevation _____ ft. Approx. Depth 4.5 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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 Charleston, WV 25301

LOG of TEST PIT No. 2

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Fill Clayey sand with gravel, brown		
1'						
1'6"						
2'						
2'6"						
3'						
3'6"						
4'						
4'6"				Sandstone cobbles		
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 5 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:



Capitol Engineering, Inc.
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 Charleston, WV 25301

LOG of TEST PIT No. 3

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Sandstone cobbles		
1'6"						
2'						
2'6"						
3'						
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 4 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:



Capitol Engineering, Inc.
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LOG of TEST PIT No. 4

Project Elkins AFRC Utility Extension
 Location Harding, WV

Project No. 061-2009-03
 Field Engr./Geo. _____

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Clayey sand, brown		
1'6"						
2'						
2'6"						
3'				Fat clay, trace carbonaceous shale, gray, moist, iron stained		
3'6"						
4'						
4'6"						
5'				Gray claystone		
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 7 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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LOG of TEST PIT No. 5

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Fat clay, gray, saturated		
1'6"						
2'						
2'6"						
3'						
3'6"				Sandstone cobbles		
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 7 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:
Surface and subsurface water at this location



Capitol Engineering, Inc.
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LOG of TEST PIT No. 6
 Project No. 061-2009-03
 Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Lean clay, trace organics (roots), reddish brown and gray, moist, (completely weathered claystone)		
1'6"						
2'				Shale, moderately weathered, brown, soft to medium hard, laminated, iron stained		
2'6"						
3'				Shale, very hard		
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 3 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



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LOG of TEST PIT No. 7

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Fill		
1'						
1'6"						
2'						
2'6"				Lean clay, trace organics (roots), reddish brown and gray, moist, (completely weathered claystone)		
3'						
3'6"						
4'						
4'6"				Claystone, reddish brown		
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 7 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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LOG of TEST PIT No. 8

Project No. 061-2009-03

Project Elkins AFRC Utility Extension
 Location Harding, WV

Field Engr./Geo. _____

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Lean clay, brown		
1'						
1'6"						
2'						
2'6"						
3'				Severely weathered shale, brown		
3'6"						
4'				Shale, moderately weathered, brown, soft to medium hard, laminated, iron stained		
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

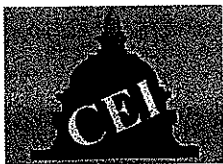
Surface Elevation _____ ft. Approx. Depth 4 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



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LOG of TEST PIT No. 9

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Lean clay with sand and gravel, trace organics, (roots) brown, moist		
1'6"						
2'						
2'6"						
3'						
3'6"				Shale, hard		
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft.

Approx. Depth 3 ft.

Hammer Wt. _____ lbs.

Starting Date 12/11/2009

Ending Date 12/11/2009

Hammer Drop _____ inches

Starting Time _____ am

Ending Time _____ am pm

Water Encountered _____ ft. @ _____ ft

Sampling Method _____

Water Final Depth _____ ft. @ _____ ft

Sampler Type _____

Remarks:



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LOG of TEST PIT No. 10

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Lean clay, trace organics (roots), brown, moist		
1'						
1'6"						
2'						
2'6"				Shale, moderately weathered, brown, soft to medium hard, laminated, iron stained		
3'						
3'6"						
4'						
4'6"						
5'				Shale		
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 5 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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LOG of TEST PIT No. 11

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'				Lean clay, trace sand, gray moist, iron stained, (completely weathered shale)		
1'6"						
2'						
2'6"						
3'				Shale, gray		
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

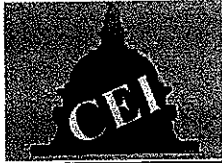
Surface Elevation _____ ft. Approx. Depth 6 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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 Charleston, WV 25301

LOG of TEST PIT No. 12

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Coal fines with shale cobbles		
1'						
1'6"				Shale, moderately weathered, brown, soft to medium hard, laminated, iron stained		
2'						
2'6"						
3'						
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft.

Approx. Depth 1 ft.

Hammer Wt. _____ lbs.

Starting Date 12/11/2009

Ending Date 12/11/2009

Hammer Drop _____ inches

Starting Time _____ am

Ending Time _____ am pm

Water Encountered _____ ft. @ _____ ft

Sampling Method _____

Water Final Depth _____ ft. @ _____ ft

Sampler Type _____

Remarks:



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 Charleston, WV 25301

LOG of TEST PIT No. 13
 Project No. 061-2009-03
 Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Coal fines		
1'				Shale, moderately weathered, brown, soft to medium hard, laminated, iron stained		
1'6"				Shale, very hard, brown		
2'						
2'6"						
3'						
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

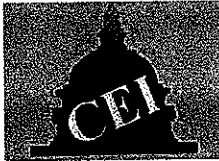
Surface Elevation _____ ft. Approx. Depth 1 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:



Capitol Engineering, Inc.
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 Charleston, WV 25301

LOG of TEST PIT No. 14

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension

Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Topsoil		
1'						
1'6"				Sandy lean clay with gravel and rock fragments, trace organics (roots), brown, moist shale fragments		
2'				Shale, gray		
2'6"						
3'						
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

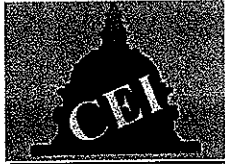
Surface Elevation _____ ft. Approx. Depth 2 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks: _____



Capitol Engineering, Inc.
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LOG of TEST PIT No. 15

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Fill with some coal fines		
1'						
1'6"						
2'				Coal fines		
2'6"						
3'				Sandstone hard/massive		
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 3.5 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:



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LOG of TEST PIT No. 16

Project No. 061-2009-03

Field Engr./Geo. _____

Project Elkins AFRC Utility Extension
 Location Harding, WV

DEPTH (FT.)	ELEVATION	SAMPLE NUMBER	TYPE	DESCRIPTION	RECOVERY	USCS or ROCK BROKENNESS
6"				Fill with shale cobbles		
1'						
1'6"				Sandy lean clay with gravel and rock fragments, trace organics (roots), brown, moist shald and sandstone fragments		
2'						
2'6"						
3'						
3'6"						
4'						
4'6"						
5'						
5'6"						
6'						
6'6"						
7'						
7'6"						
8'						
8'6"						
9'						
9'6"						
10'						

Surface Elevation _____ ft. Approx. Depth 8 ft.
 Starting Date 12/11/2009 Ending Date 12/11/2009
 Starting Time _____ am Ending Time _____ am pm

Hammer Wt. _____ lbs.
 Hammer Drop _____ inches

Water Encountered _____ ft. @ _____ ft.
 Water Final Depth _____ ft. @ _____ ft.

Sampling Method _____
 Sampler Type _____

Remarks:

HCN Division Office
 912 Morris Street
 Charleston, WV 25301
 P 304.344.0821
 F 304.342.4711
www.hcnutting.com
www.terracon.com



H. C. NUTTING

A **Terracon** COMPANY

Client: Capitol Engineering, Inc.
Project No. N2091181
Project: Elkins AFRC Utility Extension
Location: Elkins, West Virginia
Report Date: 1/12/2010

VISUAL CLASSIFICATION OF BAG SAMPLES

TEST PIT NO.

TP-1 CLAYEY GRAVEL WITH SAND, brown, very moist, sandstone and shale gravel, fine to coarse grained sand

TP-4 FAT CLAY, trace carbonaceous shale, gray, moist, iron stained

TP-6 SHALE, moderately weathered, brown, soft to medium hard, laminated, iron stained

TP-7 LEAN CLAY, trace organics (roots), reddish brown and gray, moist, (completely weathered claystone)

TP-8 SHALE, moderately weathered, brown, soft to medium hard, laminated, iron stained

TP-9 LEAN CLAY WITH SAND AND GRAVEL, trace organics (roots), brown, moist

TP-10 LEAN CLAY, trace organics (roots), brown, moist

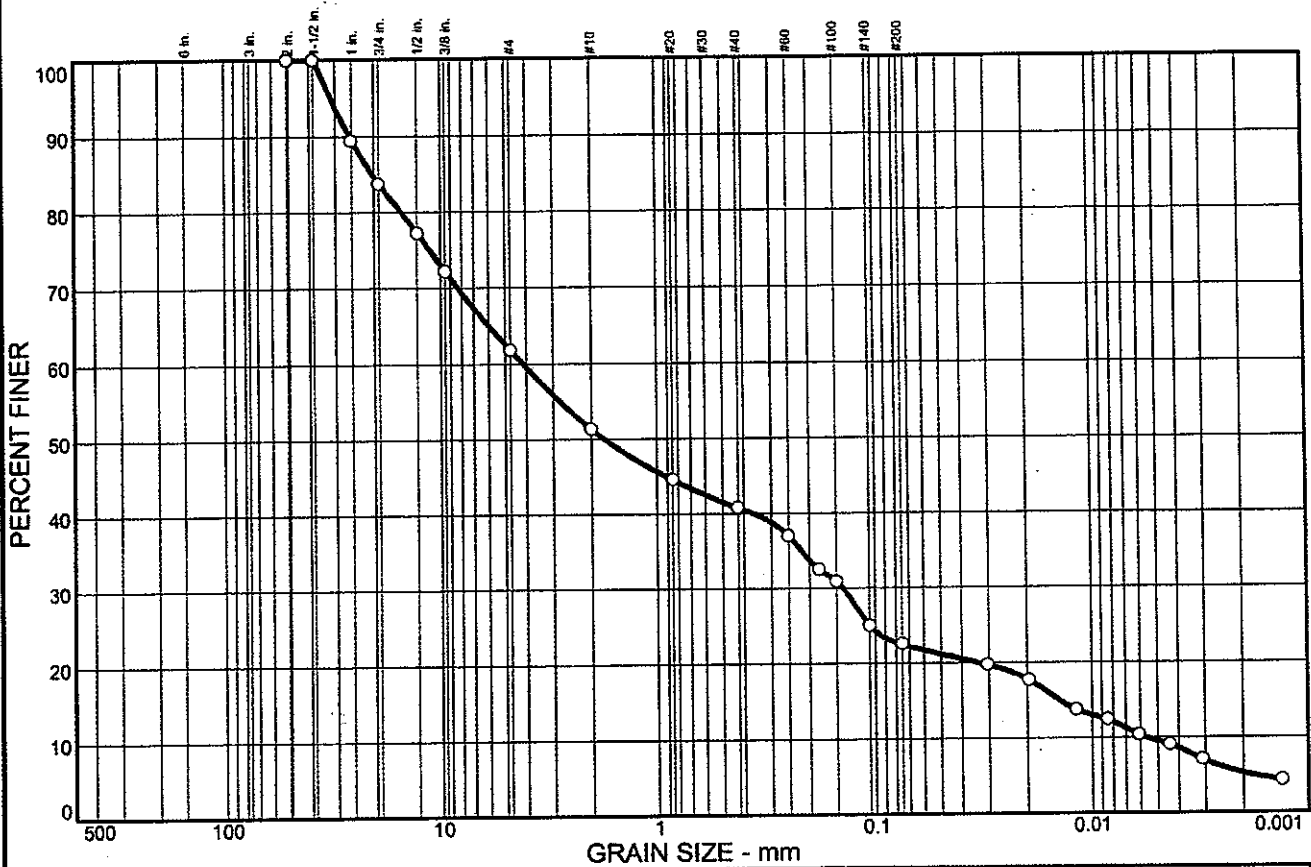
TP-11 LEAN CLAY, trace sand, gray, moist, iron stained, (completely weathered shale)

TP-12 SHALE, moderately weathered, brown, soft to medium hard, laminated, iron stained

TP-16 SANDY LEAN CLAY WITH GRAVEL AND ROCK FRAGMENTS, trace organics (roots), brown, moist, shale and sandstone fragments

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	16.3	21.9	10.5	10.5	18.3	12.9	9.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 in.	100.0		
1.5 in.	100.0		
1 in.	89.4		
3/4 in.	83.7		
1/2 in.	77.2		
3/8 in.	72.2		
#4	61.8		
#10	51.3		
#20	44.6		
#40	40.8		
#60	37.0		
#80	32.5		
#100	30.9		
#140	25.0		
#200	22.5		

Soil Description

Silty, clayey sand with gravel

Atterberg Limits

PL= 19 LL= 23 PI= 4

Coefficients

D₈₅= 20.5 D₆₀= 4.15 D₅₀= 1.75
D₃₀= 0.141 D₁₅= 0.0142 D₁₀= 0.0056
C_u= 743.85 C_c= 0.85

Classification

USCS= SC-SM AASHTO= A-1-b

Remarks

F.M.=1.51

* (no specification provided)

Sample No.: 1
Location:

Source of Sample: TP-1

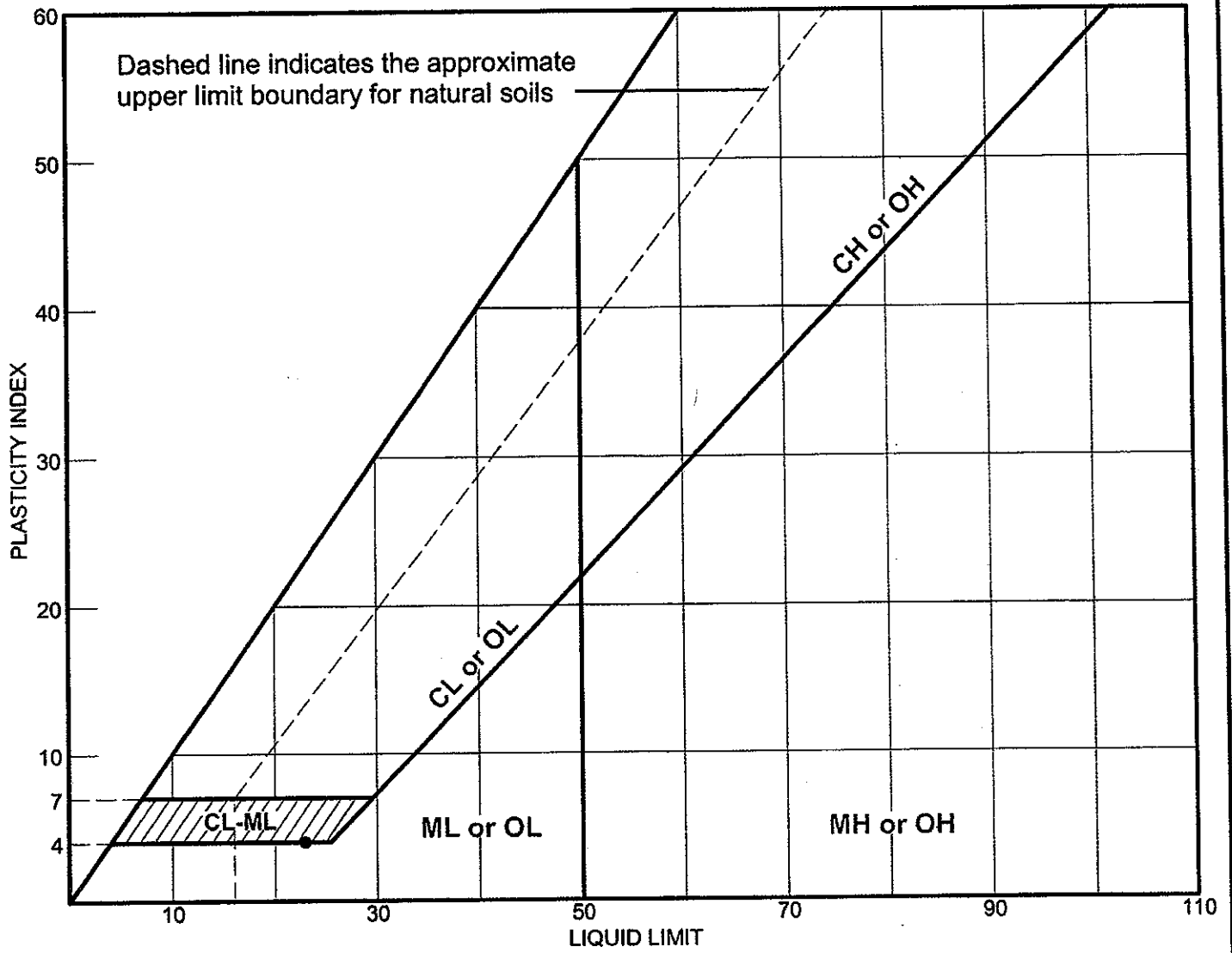
Date: 12/29/09
Elev./Depth:



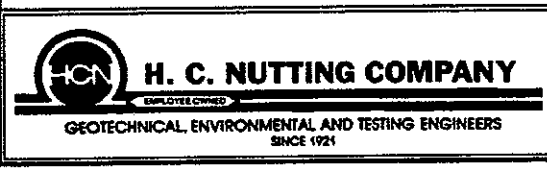
Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension

Project No: N2091181

LIQUID AND PLASTIC LIMITS TEST REPORT

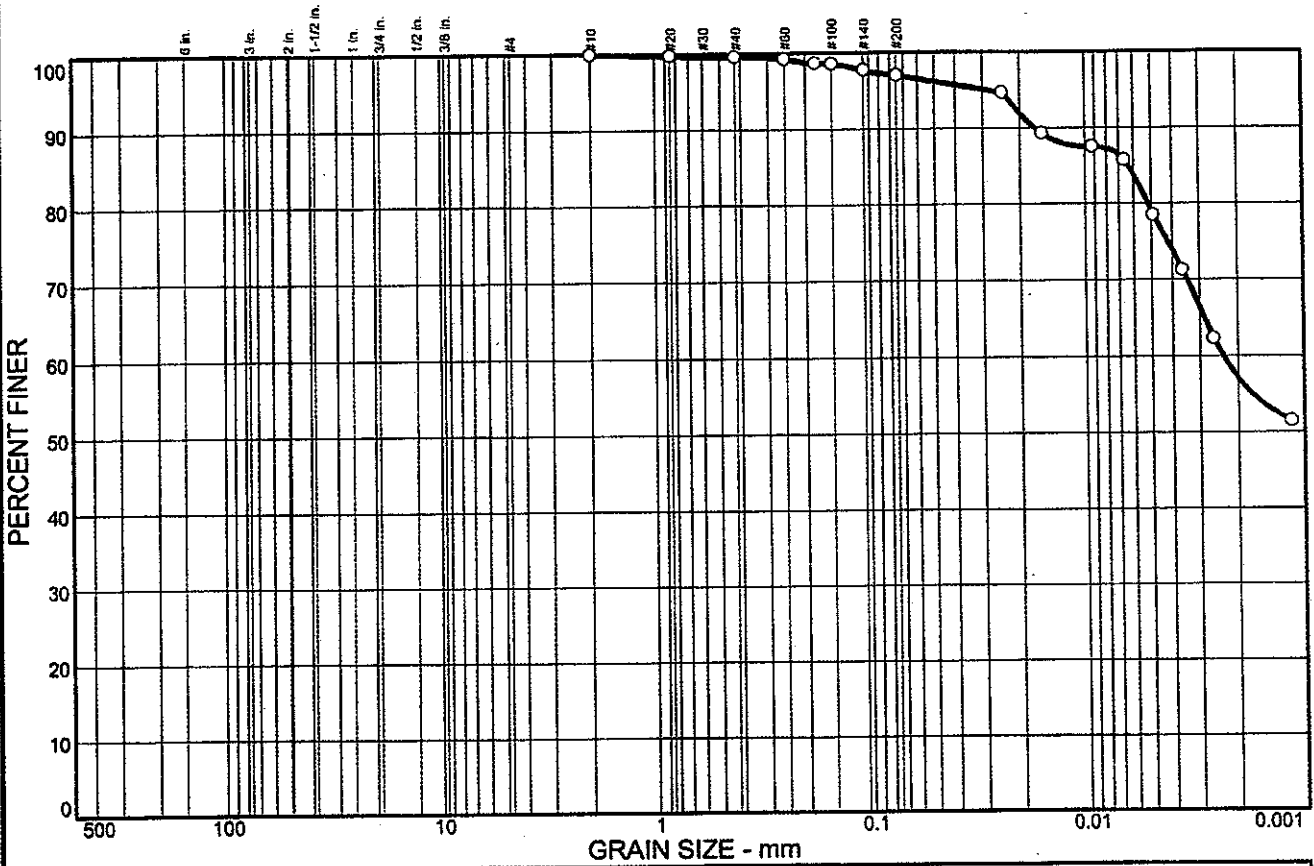


SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-1	1		12.2	19	23	4	SC-SM



Client: Capitol Engineering, Inc.
 Project: Elkins AFRC Utility Extension
 Project No.: N2091181

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	0.4	2.5	18.1	79.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	99.8		
#40	99.6		
#60	99.3		
#80	98.7		
#100	98.6		
#140	97.8		
#200	97.1		

Soil Description
Fat clay

Atterberg Limits
 PL= 27 LL= 51 PI= 24

Coefficients
 D₈₅= 0.0064 D₆₀= 0.0024 D₅₀=
 D₃₀= D₁₅= D₁₀=
 C_u=

Classification
 USCS= CH AASHTO= A-7-6(27)

Remarks
 F.M.=0.01

* (no specification provided)

Sample No.: 1
Location:

Source of Sample: TP-4

Date: 12/29/09
Elev./Depth:



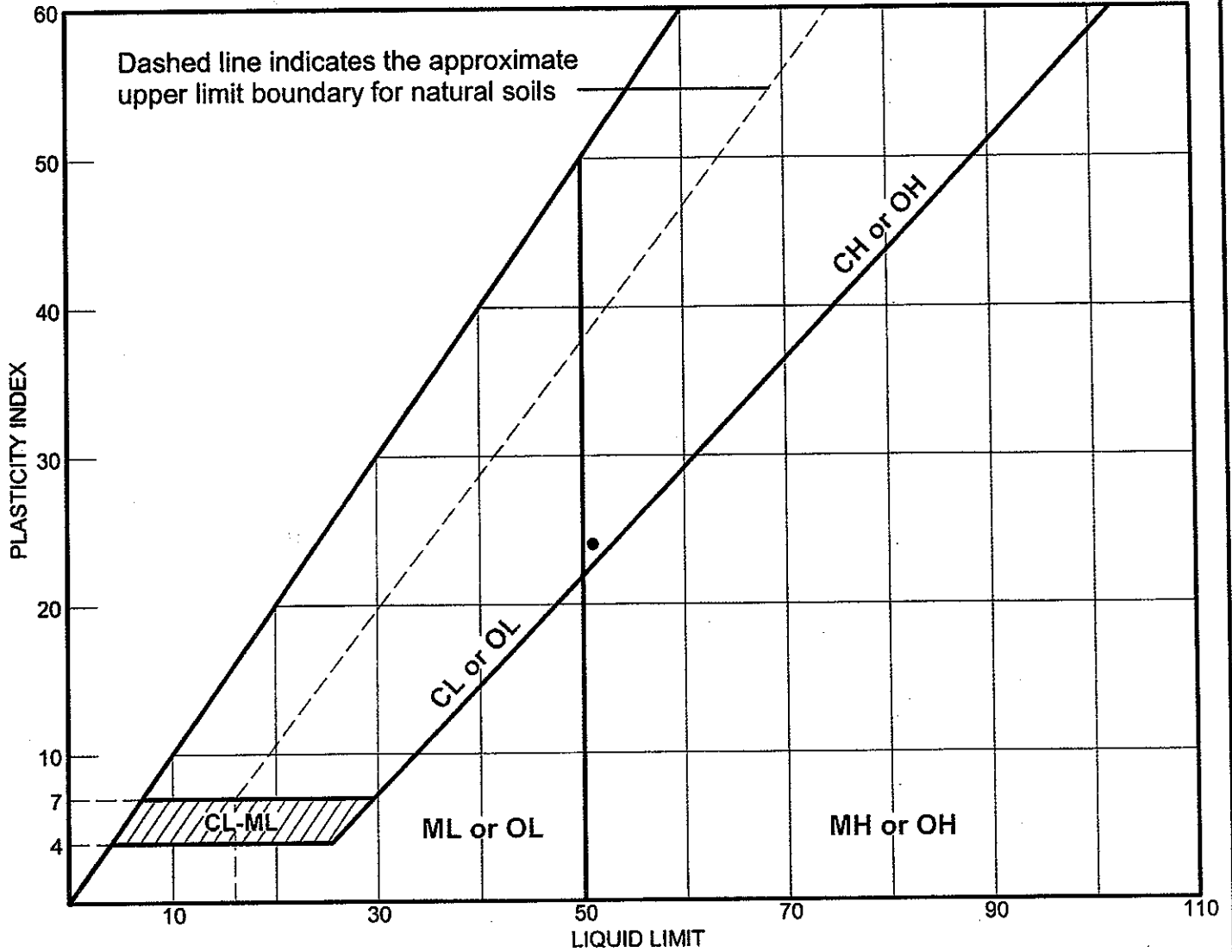
H. C. NUTTING COMPANY

GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
SINCE 1921

Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension

Project No: N2091181

LIQUID AND PLASTIC LIMITS TEST REPORT

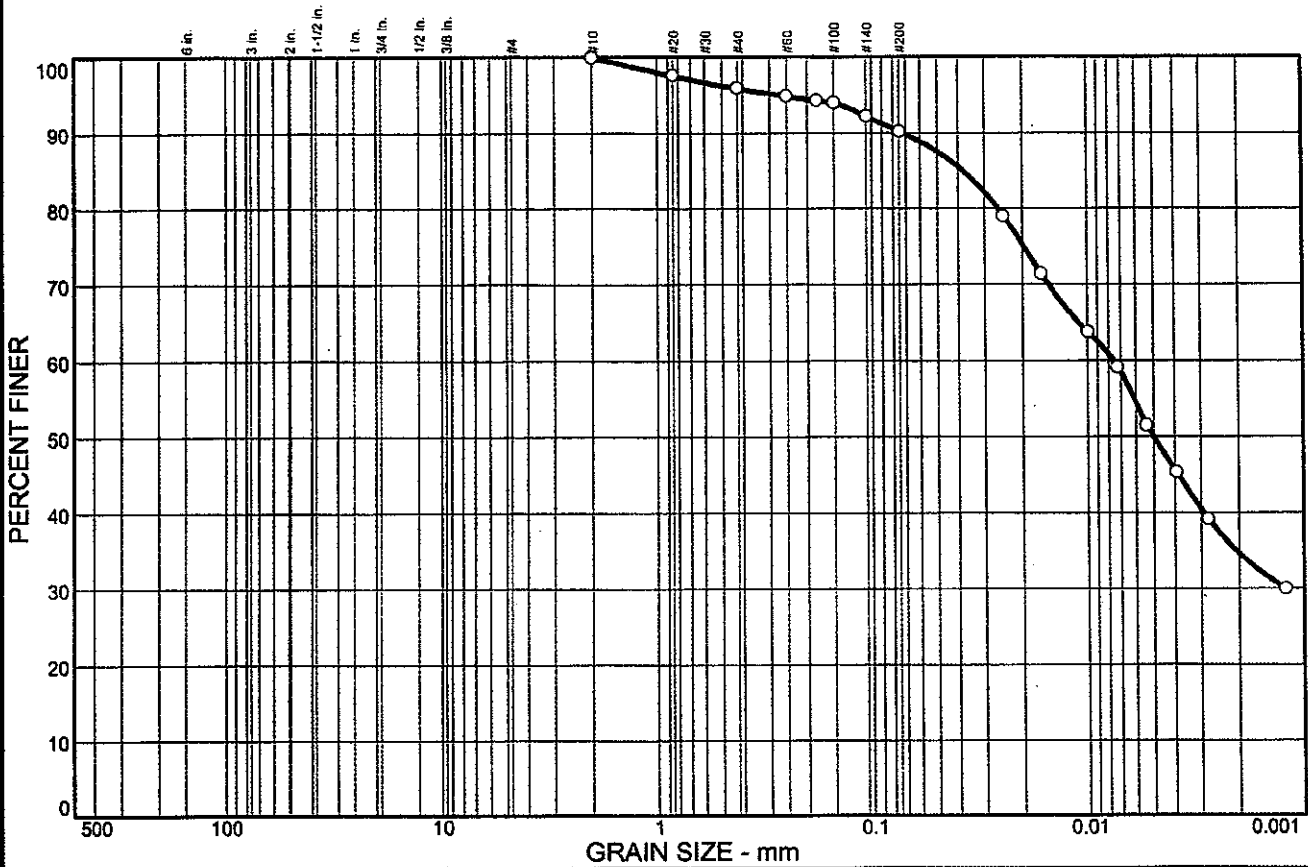


SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
•	TP-4	1		24.1	27	51	24	CH

H. C. NUTTING COMPANY
EMPLOYEE OWNED
 GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
 SINCE 1921

Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension
Project No.: N2091181

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	4.1	5.7	40.3	49.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#10	100.0		
#20	97.6		
#40	95.9		
#60	94.9		
#80	94.3		
#100	94.0		
#140	92.2		
#200	90.2		

Soil Description
Lean clay

Atterberg Limits
PL= 22 LL= 40 PI= 18

Coefficients
D₈₅= 0.0381 D₆₀= 0.0076 D₅₀= 0.0050
D₃₀= 0.0012 D₁₅= D₁₀=
C_u= C_c=

Classification
USCS= CL AASHTO= A-6(17)

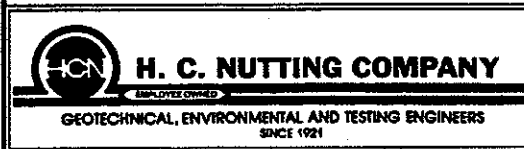
Remarks
F.M.=0.06

* (no specification provided)

Sample No.: 1
Location:

Source of Sample: TP-9

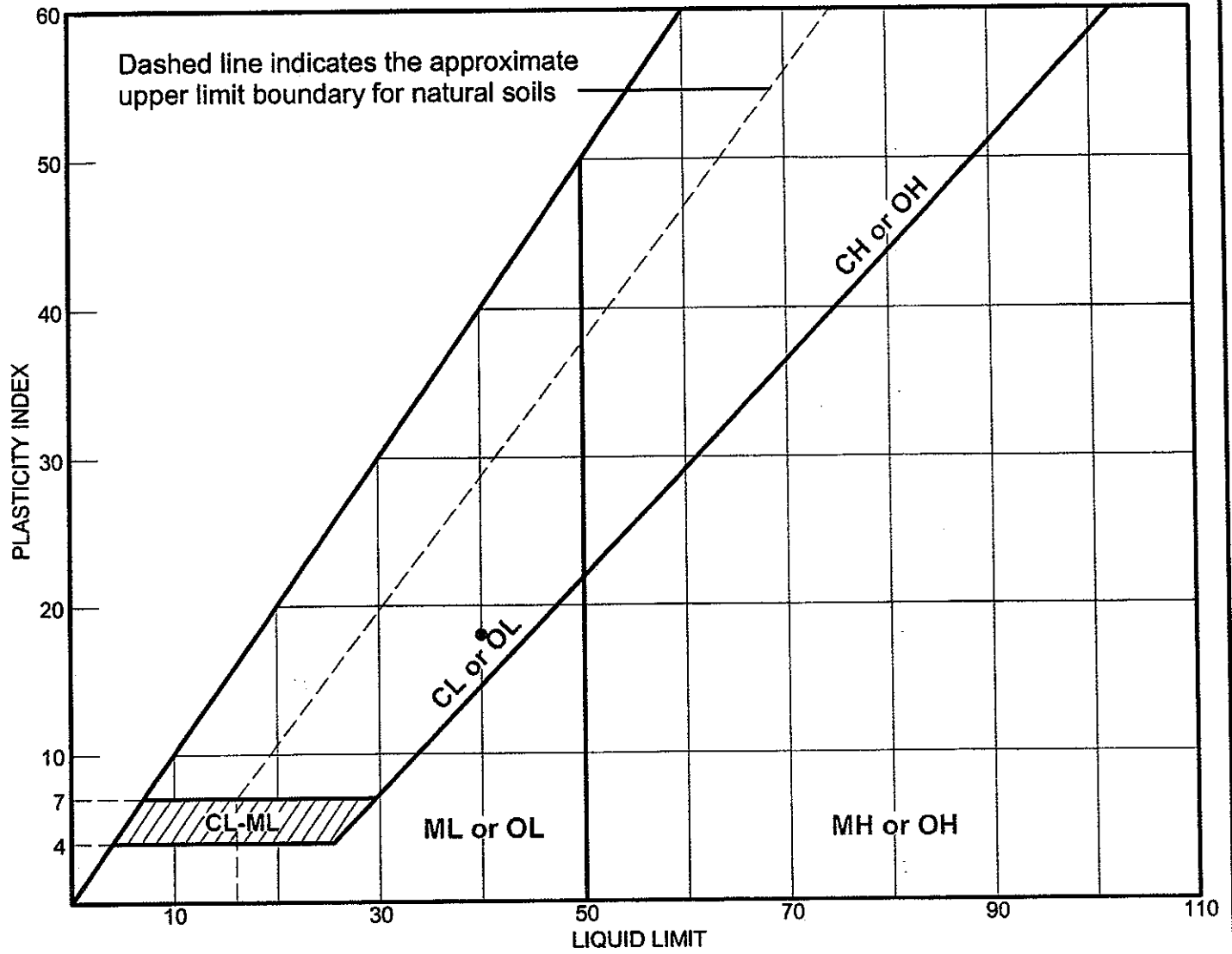
Date: 12/29/09
Elev./Depth:



Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension

Project No: N2091181

LIQUID AND PLASTIC LIMITS TEST REPORT

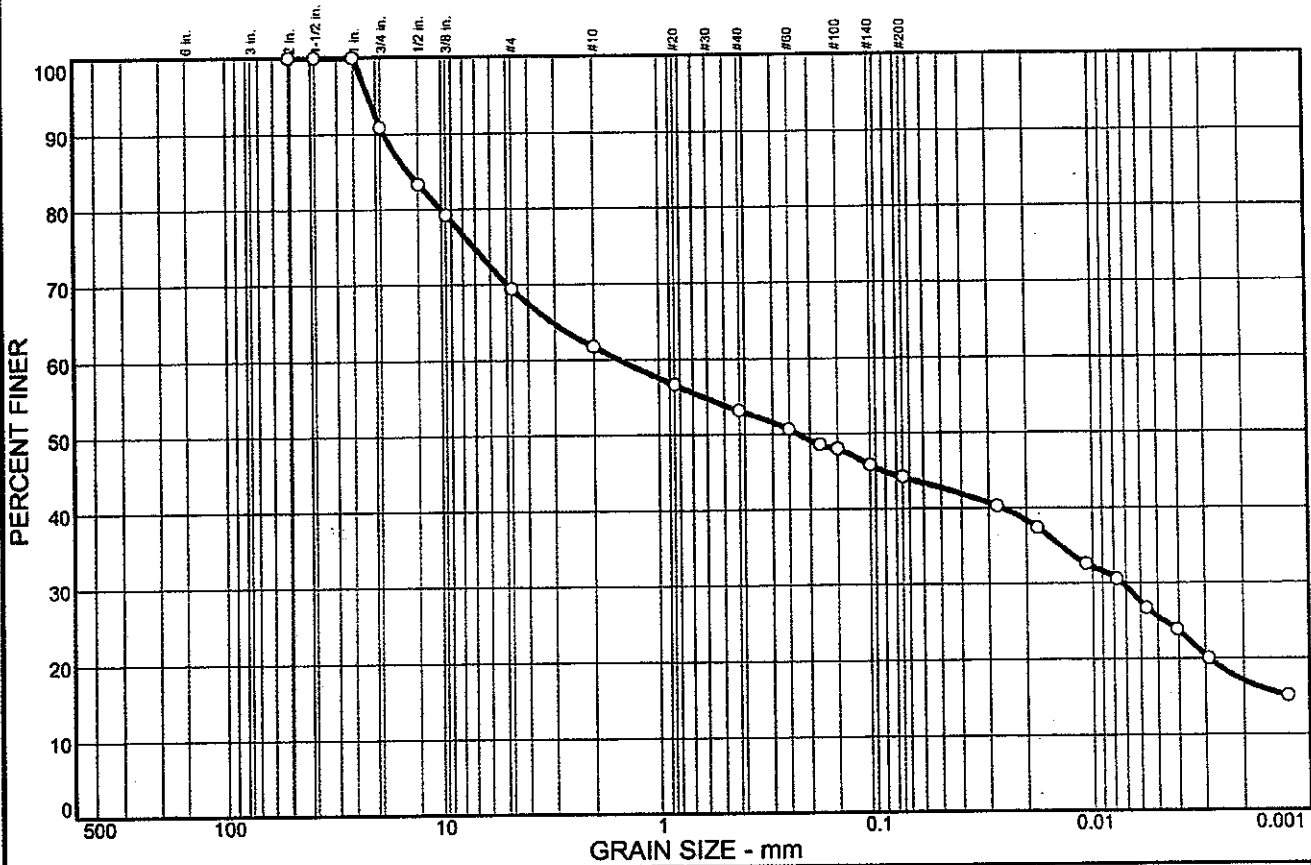


SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-9	1		21.4	22	40	18	CL

H. C. NUTTING COMPANY
EMPLOYEE OWNED
 GEOTECHNICAL, ENVIRONMENTAL AND TESTING ENGINEERS
 SINCE 1921

Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension
Project No.: N2091181

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	9.2	21.4	7.7	8.6	8.9	18.6	25.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2 in.	100.0		
1.5 in.	100.0		
1 in.	100.0		
3/4 in.	90.8		
1/2 in.	83.3		
3/8 in.	79.2		
#4	69.4		
#10	61.7		
#20	56.6		
#40	53.1		
#60	50.6		
#80	48.6		
#100	48.0		
#140	45.8		
#200	44.2		

Soil Description

Clayey gravel with sand

Atterberg Limits

PL= 19 LL= 31 PI= 12

Coefficients

D₈₅= 14.3 D₆₀= 1.54 D₅₀= 0.228
D₃₀= 0.0073 D₁₅= D₁₀=
C_u= C_c=

Classification

USCS= GC AASHTO= A-6(2)

Remarks

F.M.=1.13

* (no specification provided)

Sample No.: 1
Location:

Source of Sample: TP-16

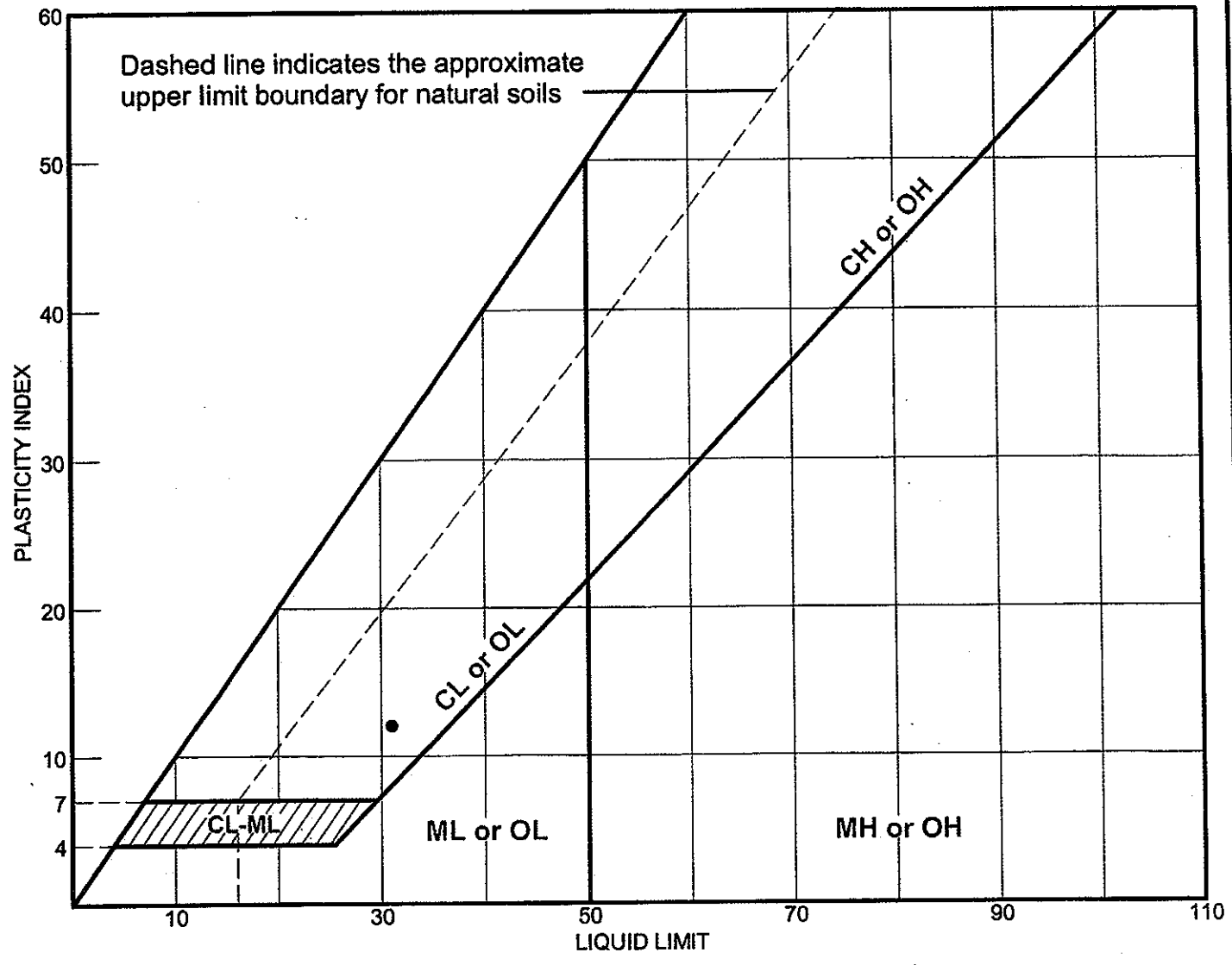
Date: 12/29/09
Elev./Depth:



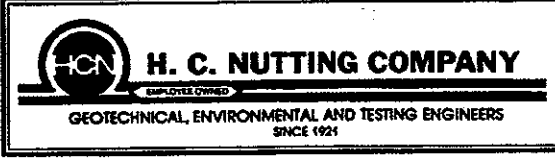
Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension

Project No: N2091181

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-16	1		12.9	19	31	12	GC



Client: Capitol Engineering, Inc.
Project: Elkins AFRC Utility Extension
Project No.: N2091181

NORTON-HARDING-JIMTOWN**PUBLIC SERVICE DISTRICT**

Box 87, Norton, WV 26285

Phone: 636-6223 - Fax: 636-0208

September 27, 2010

Mr. Robert Fuller, PE
Capitol Engineering, Inc.
1206 Kanawha Blvd. E.
Suite 201
Charleston, WV 25301

RE: Water Line Extension to Elkins Readiness Center

Dear Mr. Fuller:

As a follow-up to our meeting and discussions, please also address and/or confirm the following items of concern. First, the District would like to see a copy of the resume for the Resident Representative to review their experience. The District will need copies of the daily inspection reports from the Resident Project Representative. The District will require two (2) CD's of Adobe format (pdf) as-builts drawings as well as five (5) hard copies as follows: One (1) copy of the redline drawings, Two (2) full size copies of the CAD corrected drawings, and Two (2) half-size copies of the CAD corrected drawings. The District also will require photos of all fittings, valves and connections. Lastly, the District will require two (2) copies of the pressure tests, and bacteriological tests. We would also like to be present during the bacteriological test, so please call to coordinate a date and time.

If you have any questions or would like to discuss this topic further, please give me a call.

Sincerely,



Curtis R. Elmore, Chief Operator
Norton-Harding-Jimtown PSD

cc: Clay Riley, P.E. Thrasher Engineering



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer

District Eight

Joe Manchin III
Governor

P. O. Box 1516 · Elkins, West Virginia 26241-1516 · 304/637-0220

August 30, 2010

Capitol Engineering, Inc.
Attn: Robert M. Fuller P.E.
1206 Kanawha Blvd.E. Suite 201
Charleston Wv. 25301

Re: ARMED FORCES RESERVE CENTER
Sanitary Sewer
Water

Dear Mr. Fuller,

Your submittal for the Armed Forces Reserve Center sewer line and water line project has been reviewed and found to be acceptable.

Prior to commencement of construction activities Form MM-109 and Form BF-125 shall be submitted with the appropriate signatures and proper information to the District. Included in this package shall be copies of the affected Public Service Districts Blanket Bond to cover said work. As well as, 2 full size and 2 half size sets of plans.

If you have further questions or concerns please contact this office at 304-637-0220 ext.50.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd Schoonover".

Todd Schoonover
District 8 Utilities Supervisor

EXAMPLE

INDEMNITY AND HOLD HARMLESS AGREEMENT

Indemnification, Hold Harmless and General Release: The State of West Virginia, the Adjutant General's Department, the West Virginia National Guard, Penn Virginia Operating Co. LLC, Polino Enterprises, Inc., Town of Junior and Norton Jimtown Harding Public Service District shall not be held liable for any claims for damage which may arise on account of any use of the premises by Contractor, and Contractor shall indemnify and hold harmless the State of West Virginia, the Adjutant General's Department, the West Virginia National Guard, Penn Virginia Operating Co. LLC, Polino Enterprises, Inc., Town of Junior, Norton Jimtown Harding Public Service District, their employees, agents, contractors, successors, and assigns (hereinafter "Owners") from and against all claims, losses, costs, expenses or damages, including reasonable attorneys' fees, incurred or sustained as a result of injury to persons or damage to property arising out of or occurring in or resulting from the Agreement, whether from any act or omission to act. Moreover, Contractor hereby releases, acquits and discharges Owners from any and all actions, causes of action, claims, demands, losses, expenses, damages, costs, injuries and liabilities incurred or which may be incurred by Contractor now or in the future on account of any known or unknown injuries, losses or damages, whether direct or indirect, sustained in connection with or arising out of or incurring in or resulting from Contractor's use of the Premises under the Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument on the day and year first above written.

GRANTEE _____

By _____

Its _____

STATE OF _____

COUNTY OF _____

I, _____, a Notary Public in and for said County and State, hereby certify that _____, whose name as _____ of _____, a _____ corporation, is signed to the foregoing instrument, and who is known to me, acknowledged before me on this day that, being informed of the contents of this instrument, he, as such officer and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand and official seal this the ____ day of _____, 2011.

Notary Public

PWSID# WV3304213

State of West Virginia

OFFICE OF ENVIRONMENTAL HEALTH SERVICES

350 CAPITOL STREET, ROOM 313

CHARLESTON, WV 25301-3713

Telephone (304) 558-2981

PERMIT

(Sewer and Water)

PROJECT: Elkins Armed Forces Reserve Center**PERMIT NO.:** 18,762**LOCATION:** near Harding**COUNTY:** Randolph**DATE:** 3-11-2011

THIS IS TO CERTIFY that after reviewing plans, specifications, application forms, and other essential information that

WVARNG-DEF
1707 Coonskin Drive
Charleston, West Virginia 25311

is hereby granted approval to: install approximately 420 LF of 8" sewer line; necessary manholes and cleanouts; one (1) 47 GPM duplex submersible sewage pump station; approximately 4,400 LF of 3" force main; with connection to the existing Town of Junior sewage facilities. To install approximately 8,600 LF of 6", 60 LF of 8" and 160 LF of 12" water line; two (2) 75,000 gallon fire service water storage tanks; a 1,000 GPM fire pump located in a fire pump house; all necessary valves, controls and appurtenances; with water to be provided by the Norton-Harding-Jimtown Public Service District.

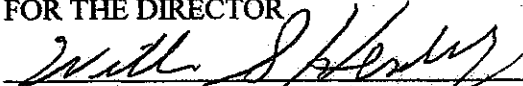
Facilities are to serve the Elkins Armed Forces Reserve Center.

NOTE: This permit is contingent upon: 1) All new potable water line being disinfected, flushed and bacteriologically tested, prior to use; and 2) Maintaining a minimum ten (10) feet horizontal separation between sewer and water lines and a minimum 18" vertical separation between crossing sewer and water lines, with the water line over the sewer line.

The Environmental Engineering Division of the OEHS Philippi District Office, (304) 457-2296, is to be notified when construction begins.

Validity of this permit is contingent upon conformity with plans, specifications, application forms, and other information submitted to the West Virginia Bureau for Public Health.

FOR THE DIRECTOR


 William S. Herold, Jr., P.E., Assistant Manager
 Infrastructure and Capacity Development
 Environmental Engineering Division

WSH:plk

pc: Capitol Engineering, Inc
 Katheryn Emery, P.E., DEP
 Town of Junior
 Norton-Harding-Jimtown PSD
 Ingrid Ferrell, PSC-Engineering Division
 Amy Swann, PSC
 Randolph-Elkins County Health Department
 OEHS-EED Philippi District Office



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

PRODUCER INSURANCE AGENCY'S NAME AND ADDRESS	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED CONTRACTOR'S NAME AND ADDRESS	INSURERS AFFORDING COVERAGE	NAIC #
	INSURER A: INSURER'S NAME	
	INSURER B: INSURER'S NAME	
	INSURER C: INSURER'S NAME	
	INSURER D:	
	INSURER E:	

COVERAGES
THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

DESCRIPTION	TYPE OF INSURANCE	POLICY NUMBER	START DATE (MM/DD/YYYY)	EXPIRES (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000
	GENERAL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PER OCCUR <input type="checkbox"/> LOC				
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRE/AUTO <input checked="" type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Per accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA AGG \$ AGG \$
B	EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				EACH OCCURRENCE \$5,000,000 AGGREGATE \$5,000,000
	<input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY EMPLOYER/OWNER/EXECUTIVE OFFICER/OWNER EXCLUDED (Mandatory in VA) (See description of SPECIAL PROVISIONS below)				<input checked="" type="checkbox"/> NO STATE / TERRITORY LIMITS <input type="checkbox"/> OTHER EL EACH ACCIDENT \$ 500,000 EL DISEASE - SA EMPLOYEES \$ 500,000 EL DISEASE - POLICY LIMIT \$ 500,000
	Other				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 Employers liability includes coverage for W. Va. Code §23-4-2 (Mandolidis). Owner, Architect, Architect's Consultants, and Landowners are to be named as additional insureds. (Insert project's name and address)

CERTIFICATE HOLDER STATE AGENCY'S NAME AND ADDRESS	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE
--	---

SECTION I – BASE BID AND ALTERNATES

Dated: _____
(Bidder to insert date bid submitted)

SUBMITTED BY:

(hereinafter called "Bidder")

West Virginia Contractor's License Number: WV _____

SUBMITTED TO: The State of West Virginia

The undersigned, being familiar with local conditions affecting the cost of the Work and the Contract Documents, including Instructions to Bidders, Bid Form, General Conditions, Drawings, Specifications, and any Addenda issued, hereby proposes to perform everything required to be performed and to provide and furnish all the labor, materials, tools, expendable equipment and all services necessary to complete in a workmanlike manner all the work required for:

**ELKINS AFRC UTILITY EXTENSION
ELKINS, RANDOLPH COUNTY, WEST VIRGINIA**

All in accordance with the Drawings and Specifications as prepared by Capitol Engineering, Inc., 1206 Kanawha Blvd E, Suite 201, Charleston, WV 25301.

BASE BID:

For the Sum of: _____
_____ (\$ _____)

If awarded contract on Base Bid, I (we) agree to perform the work to completion and ready for occupancy and use no later than **120 calendar days (or less, if feasible)** from Notice to Proceed. The Bidder understands that the Owner may impose liquidated damages in the amount stated in and, in accordance with GP-54 of the General Provisions, for each day thereafter, Sundays and holidays included, that the Work remains uncompleted, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the Contractor to complete the Work in the stipulated time, and the sum is not to be construed in any sense a penalty. Additional schedule requirements for this contract include: 1) Clearing and grubbing for the right-of-way shall be completed within **15 calendar days** from Notice to Proceed; 2) Water service for domestic use must be substantially complete within **75 calendar days** from Notice to Proceed.

It is hereby certified that the undersigned is the only person(s) interested in this proposal as principal, and their proposal is made without collusion with any person, firm, or corporation. Bidder hereby agrees to execute the contract and furnish surety company bonds, in the forms incorporated in the contract documents, in the amount of one hundred (100%) percent of the contract price for performance, including

maintenance, and for payment for labor and materials, respectively at the time required by the bidding documents, and to begin work within five (5) days following receipt of Notice to Proceed.

The Bidder certifies that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor. The Bidder agrees that the Owner reserves the right to reject any or all bids, and to waive any formalities in the bidding. The Bidder agrees that this bid shall be good and binding and may not be withdrawn for a period of 90 days.

The Bidder acknowledges receipt of the following Addenda: (Please list by number and date.)

Bidder guarantees that, if awarded the contract, he will furnish and deliver all materials, tools, equipment, tests, transportation, secure all permits and licenses, and perform all labor, superintendence and all means of construction, pay all fees, except those specifically excluded in the Project Manual and do all incidental work to execute, construct, and finish the work in an expeditious, substantial, and workmanlike manner, in accordance with the contract documents to the complete satisfaction and acceptance of the Owner, for the prices stated.

It is understood that the Owner reserves the right to reject any/or all proposals, or part thereof or items therein, and to waive technicalities as required for the best interests of the Owner. It is further understood that competency and responsibility of bidders will receive consideration before the award of the contract.

The undersigned agrees that the contract documents are incorporated herein by reference and shall be construed to be part thereof, with the same effect as if such were repeated at length herein, or where physically attached hereto. The undersigned further certifies that: (1) this proposal is genuine and is not sham, collusive, or fraudulent; (2) this proposal is not made in the interest or in behalf of any person other than the undersigned; (3) the undersigned has not sought in any manner, by collusion or otherwise, to secure any advantage over any other bidders.

Enclosed herewith is a bid security prepared in accordance with the Instructions to Bidders in the amount of five percent (5%) of the amount of the bid (being not less than 5% of the total of the base bid). We agree that the above stated amount is the proper measure of liquidated damages which the owner will sustain by our failure to execute the contract and to furnish the performance bond in case this proposal is accepted.

SIGNATURE OF BIDDER:

Firm: _____ By: _____

Address: _____ Title: _____

Address: _____ Phone: _____

Address: _____ Fax: _____

Tax Cert#: _____

END OF SECTION I

SECTION 02230 - SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing, and removing site utilities.
7. Temporary erosion- and sedimentation-control measures.

B. Related Sections:

1. Division 1 Section "Temporary Facilities" for temporary utility services, construction and support facilities, security and protection facilities.
2. Division 1 Section "Field Engineering" for field engineering and surveying.

1.3 DEFINITIONS

- A. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil and is the zone where plant roots grow.
- D. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction, and indicated on Drawings.
- E. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction, and defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated.
- F. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.4 MATERIAL OWNERSHIP

- A. Except for stripped topsoil, timber, stumps, and other materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 SUBMITTALS

- A. Existing Conditions: Documentation of existing trees and plantings, adjoining construction, and site improvements that establishes preconstruction conditions that might be misconstrued as damage caused by site clearing.
 - 1. Use sufficiently detailed photographs or videotape.
 - 2. Include plans and notations to indicate specific wounds and damage conditions of each tree or other plants designated to remain.
- B. Record Drawings: Identifying and accurately showing locations of capped utilities and other subsurface structural, electrical, and mechanical conditions.

1.6 QUALITY ASSURANCE

- A. Preinstallation Conference: Conduct conference at Project site.

1.7 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B. Improvements on Adjoining Property: Authority for performing site clearing indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
 - 1. Do not proceed with work on adjoining property until directed by COTR.
- C. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.
- D. Utility Locator Service: Notify Miss Utility for area where Project is located before site clearing.
- E. Do not commence site clearing operations until temporary erosion- and sedimentation-control and plant-protection measures are in place.
- F. The following practices are prohibited within protection zones:

1. Storage of construction materials, debris, or excavated material.
 2. Parking vehicles or equipment.
 3. Foot traffic.
 4. Erection of sheds or structures.
 5. Impoundment of water.
 6. Excavation or other digging unless otherwise indicated.
 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- G. Do not direct vehicle or equipment exhaust towards protection zones.
- H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
- I. Soil Stripping, Handling, and Stockpiling: Perform only when the topsoil is dry or slightly moist.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Division 2 Section "Earthwork."
1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.
- B. Antirust Coating: Fast-curing, lead- and chromate-free, self-curing, universal modified-alkyd primer complying with MPI #79, Alkyd Anticorrosive Metal Primer or SSPC-Paint 20 or SSPC-Paint 29 zinc-rich coating.
1. Use coating with a VOC content of 420 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain. Wrap a 1-inch blue vinyl tie tape flag around each tree trunk at 54 inches above the ground.
- C. Protect existing site improvements to remain from damage during construction.
1. Restore damaged improvements to their original condition, as acceptable to Owner.

3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.3 TREE AND PLANT PROTECTION

- A. General: Protect trees and plants remaining on-site according to requirements in Division 2 Section "Tree Protection and Trimming."
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by COTR.

3.4 EXISTING UTILITIES

- A. Owner will arrange for disconnecting and sealing indicated utilities that serve existing structures before site clearing, when requested by Contractor.
 - 1. Verify that utilities have been disconnected and capped before proceeding with site clearing.
- B. Locate, identify, disconnect, and seal or cap utilities indicated to be removed.
 - 1. Arrange with utility companies to shut off indicated utilities.
 - 2. Owner will arrange to shut off indicated utilities when requested by Contractor.
- C. Locate, identify, and disconnect utilities indicated to be abandoned in place.
- D. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify COTR not less than two days in advance of proposed utility interruptions.
 - 2. Do not proceed with utility interruptions without COTR's written permission.
- E. Excavate for and remove underground utilities indicated to be removed.
- F. Removal of underground utilities is included in Division 2 Sections.

3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
1. Do not remove trees, shrubs, and other vegetation indicated to remain or outside the construction limits.
 2. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches below exposed subgrade.
 3. Stumps in the way of utilities must be removed. Stumps shall be handled as follows depending on the property owner.
 - a. WV Department of Transportation (Approximate Waterline Stations 0+00 to 40+80) – Remove stumps and dispose of properly off-site.
 - b. Penn Virginia Resource Company (Approximate Waterline Stations 40+80 to 71+30) – Stumps may be left adjacent to the ROW, but not blocking skid trails or roads.
 - c. Polino Enterprises (Approximate Waterline Stations 71+30 to 79+30) – Remove stumps and dispose of properly off-site.
 - d. State of West Virginia – Adjutant General’s Department, West Virginia Army National Guard (Approximate Waterline Stations 79+30 to end) – Stumps may be stockpiled in an area to be designated by the COTR.
 - e. Stumps (or debris of any kind) will not be moved from one property to another.
 4. Chip removed tree branches and broadcast into surrounding area.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
1. Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil to depth of 6 inches in a manner to prevent intermingling with underlying subsoil or other waste materials.
1. Remove subsoil and nonsoil materials from topsoil, including clay lumps, gravel, and other objects more than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
1. Limit height of topsoil stockpiles to 72 inches.
 2. Do not stockpile topsoil within protection zones.
 3. Dispose of surplus topsoil. Surplus topsoil is that which exceeds quantity indicated to be stockpiled or reused.

4. Stockpile surplus topsoil to allow for respreading deeper topsoil.

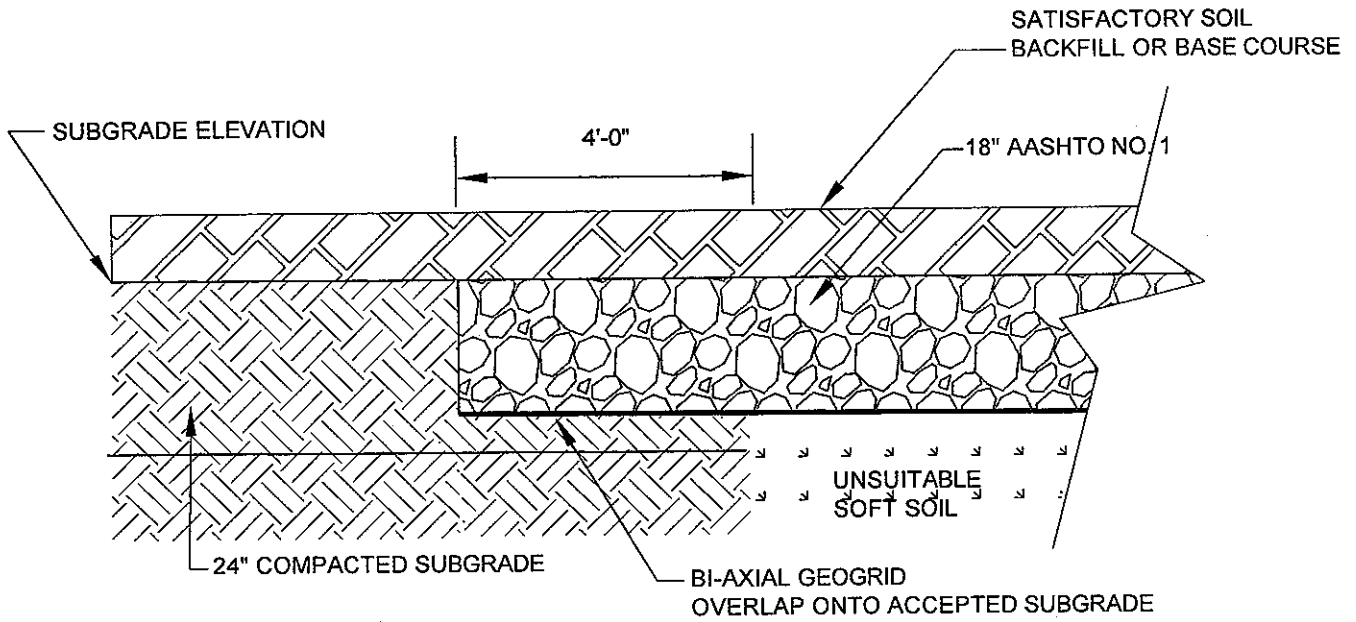
3.7 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.
- B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated.
 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically.
 2. Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION



1 OVER-EXCAVATION DETAIL
1 N.T.S.

EXHIBIT 10

REQUISITION NO.:

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED
ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY
PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1

NO. 2

NO. 3

NO. 4

NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE
ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR
MUST CLEARLY 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.

.....
SIGNATURE

.....
COMPANY

.....
DATE