



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
 RJC2014

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 JOHN ABBOTT
 304-558-2544

RFQ COPY

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REGIONAL JAIL AND CORRECTIONAL
 FACILITY AUTHORITY
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED 04/10/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 04/24/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM #01		
				THIS ADDENDUM IS ISSUED TO MODIFY, CLARIFY, AND ADD TO THE ORIGINAL SPECIFICATIONS, PER THE ATTACHED.		
0001	1	LS		968-20		
				BUILDING CONSTRUCTION		

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. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, 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.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** 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. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** 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.

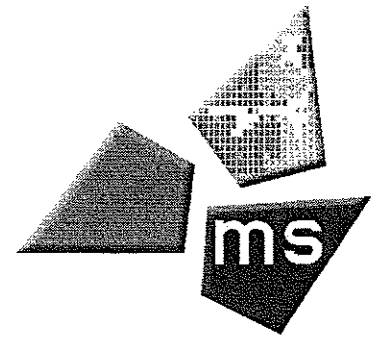
SIGNED BID TO:

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

ms consultants, inc.

engineers, architects, planners

2221 Schrock Road
Columbus, Ohio 43229-1547
Phone: (614) 898-7100
Fax: (614) 898-7570
www.msconsultants.com



APRIL 10, 2005

ADDENDUM NO. 1

To the Plans and Specifications for:

**Rubenstein Center for Youth
Building Construction Package
Issued for Bid January 23, 2008
ms #64-12545**

To All Bidders:

This Addendum supplements and amends the original drawings and specifications and shall be taken into account in preparing proposals, and shall become a part of the contract documents. Bidders are cautioned to read *all* parts of this Addendum.

SPECIFICATIONS

- S-1 Specification Section 16130 "Raceway and Boxes" listed in Table of Contents but missing in Manual re-issue in entirety.
- S-2 Specification Table of Contents Division 8, revise "Coiling Counter Doors" to read "08335" not "08225".
- S-3 Specification Section 07210, add Article 2.6 as follows:

"2.6 Polyisocyanurate Board Insulation

- A. General: Provide preformed roof insulation boards selected from manufacturers standard sizes and thickness as indicated.
- B. Rigid, cellular polyisocyanurate thermal insulation with core formed by using HCFC's as blowing agents to comply with ASTM C1289, classified as face type as follows:
 - 1. Surface burning characteristics: maximum flame spread of 25.
 - 2. R value: R=21.74 minimum. Minimum thickness of 3 inches.
- C. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion resistance provisions of FM 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer."

- S-4 Specification Section 09999: Article 3.3 Paragraph H, Item 22 to read:

"A. FM1-A: Pedigrid Vinyl Tread #8501 Black, or KDVP Aluminum Entrance Grid."

- S-5 Specifications Section 10440: Article 2.1 Paragraph B, add the following:
"6. Bayuk Graphic Systems, Inc."
- S-6 Specification Section 15900: Article 1.5 Paragraph A, add the following:
"4. TAC Andover by Mason & Barry"
- S-7 Specification Section 04810: Article 2.1 Paragraph A, add the following:
"4. Central Supply Company"
- S-8 Specification Section 07410: Article 2.1 Paragraph B, add the following:
"6. Dimensional Metals Inc.
7. Firestone Metal Products"
- S-9 Specification Section 08710: Article 2.1 Paragraph A, add the following:
"Additional acceptable manufacturer for locks, cylinders, exits, closers and stops is Dorma, Inc."
- S-10 Specification Section 09642: Article 2.1 Paragraph B, add the following:
"4. Aacer Flooring"
- S-11 Specification Section 15900
Delete Section from Specification
- S-12 Specification Section 15530: Article 2.3 Paragraph 6, revise Note 6 to read:
"Hot gas bypass kit for units 6 ton and higher"
Remove Note 7
Remove Note 9
- S-13 Specification Section 15410: Article 2.8
Revise showers from SH-1 to SH-2
- S-14 Specification Section 15410: Article 2.9
Revise vandal resistant shower from SH-2 to SH-1
Revise Paragraph A.1. Model # to 1741FA.
- S-15 Specification Section 15080 Articles 2.1-2.2
Revise as "Ductwork Insulation 1-½"

S-16 Specification Section 15080 Articles 2.3-2.6

Revise as "Hot Water Piping ½"

S-17 Specification Section 15080 Articles 2.7-2.9

Revise as "Cold Water Piping ½"

S-18 Specification Section 15050 Articles 2.1, 2.2

Revise to "Sanitary Sewer and Oil Piping

Architectural Items/Questions

A-1 Q: Do Rooms A115, B115, and C127 each get 1 washer and 1 dryer?

A: Yes

A-2 Q: Specification Section 06100 refers to engineered wood products, wall sheathing, and roof sheathing. Please clarify where used.

A: Engineered wood products are not used. Plywood wall sheathing; refer to partition types sheet A3.5. No roof sheathing over the 3" rigid polyisocyanurate roof insulation.

A-3 Q: Please confirm that the interior signage will be furnished and installed by Owner. Specification Section 01100 states furnished and installed by Owner; Section 10400 states installation costs to be in base bid.

A: Interior signage will be furnished and installed by the Owner as per Section 01100.

A-4 Q: What are liquidated damages for a contract over 5 million.

A: \$2,000.00

A-5 Q: Need a Specification for polyisocyanurate insulation.

A: See Specifications revisions of this Addendum.

A-6 Q: Page A2.3 and 2.4 refer to 27 pairs of doors. The frame elevations do not show any double frames.

A: Doors are shown in schedules on sheets A3.2 and A3.3. No need for a double door frame elevation, all door frame elevations show "door width", i.e., as scheduled.

A-7 Q: There are no toilet partition specifications.

A: There really are no toilet partitions, other than doors and filler panels to concrete partition walls. For these use "Poly-mar HD" by Santana or similar by Capitol Partitions or Comtec Industries. All have 1" thick seamless construction, solid HDPE, color and material homogenous throughout, color to be selected from manufacturer's standard colors.

- A-8 Q: Sheet A2:K.1 needs equipment schedule for both accessories.
A: Provide (1) TTD, (1) M116, and (1) SD
- A-9 Q: Verify height of VO-Tech building.
A: Top of masonry/steel bearing is 14'-0". Reference to 2/A4.2 should say similar. This is showing that in mechanical/electrical rooms a gypsum board rated "lid" is installed to bottom of trusses typical.
- A-10 Q: Clarify location of hardwood trim in spec section 06200.
A: See detail 6/A8.1
- A-11 Q: Will a drawing showing the telescoping bleachers be issued or are we to go by what is in the specifications?
A: Go by what is in the specifications. Supplier will provide shop drawings which will only fit on one wall of the gymnasium.
- A-12 Q: Will soils report be available?
A: Yes. See attached.
- A-13 Q: What are limits of insurance/Acord form?
A: Refer to Supplementary Conditions, Article 11, Article 11.4.11. See attached Acord form for limits.
- A-14 Q: Permits, Fees, and Notices
A: Delete Article 3.7.1 of the Special Conditions.
- A-15 Q: Power Company Fees
A: General contractor to carry a \$25,000.00; not to exceed allowance for power company's fee.
- A-16 Q: General contractor to carry a \$12,500.00 allowance for metal trim at glass block. Architect will issue details for this work after discussions with masonry contractor.
- A-17 Q: Define "FFE".
A: Owner is providing all tables, chairs, desks, shelving, etc. Only equipment by contractor is listed on drawings and is specified, i.e., chalk boards, lab desk, etc.
- A-18 Q: GE data/phone responsibilities?
A: Conduit runs only – Owner to provide wire and devices.
- A-19 Q: Owner kitchen equipment?

- A: P-3 can racks to be relocated by Owner. P-28 exist refrigerator model to be matched by contractor. Supplied and installed by contractor.
- A-20 Q: Who pays for testing and balancing of systems?
A: Contractor
- A-21 Q: Is project management (11.3) protective liability insurance required?
A: No.
- A-22 Q: Is roof maintenance bond required?
A: No.
- A-23 Q: Confirm no DEC by Owner.
A: There is no detention equipment contractor on this project.
- A-24 Q: Confirm existing site contract will come to site elevations as proposed.
A: Site elevations will match those as shown on contract drawings now out for bid.
- A-25 Q: Confirm there will be enough top sod left from existing site contract for new contract.
A: We do not anticipate importing of topsoil for this contract.
- A-26 Q: Is there colored mortar?
A: Yes. Light color (tan) to be determined from manufacturers standard colors.
- A-27 Q: Confirm GC start no later than April 15, 2008 = 60 days and therefore June 15, 2008 start date for this contract.
A: Dates are correct to best of our knowledge. Contractor for existing site work will be accommodating to new contractor starting on building pods.
- A-28 Q: What are roof trusses made of
A: Steel. See structural drawings.
- A-29 Q: Unable to find support beam above Window E-7 in administration building.
A: See Sheet S2.D.2.
- A-30 Q: Will the electrical ductbanks and electrical manholes shown on sheet E1.0 be installed by the site development contractor or will they be a part of this contract.
A: Yes. They are installed by site development contractor (existing site contract)

Mechanical Items/Questions

- M-1 Sheet M.3.0.D: Air cooled condenser schedule:
Revise ACCCU's 1, 5, 6, 9, 11 to Model #380ARS012
- M-2 Sheet P2.K.1
Gas pipe to WH-2 shall be 1"
- M-3 Sheet P2.J.16
Valve assembly furnished by hood extinguishing manufacturer, installed by P.C.
- M-4 Sheet P3.0. Water Heater Piping detail C.
Revise recirculation pump to taco model #IL113

Site/Civil Responses/Questions

- C-1: Q: On Sheet C2.1 confirm quantity of deep curb. Exact start and stop point.
A: The "Straight 18" Curb Section", Detail K/C5.1, shall be installed on the eastern edge of the drive that connects the main parking area to the Maintenance Building. The extent of this curb shall be from the sidewalk connecting the westernmost door of the Administration Building south to the sidewalk section at the north end of the parking area.
- C-2: Q: Clarify the start and stop point of the 9" concrete along the parking lot.
A: The 9" concrete pavement, as shown on Detail F/C5.1, will be used for emergency vehicle access from the asphalt parking lot into the building campus. The 15' wide section of this pavement running east and west along the north side of the Recreational and Dining Building shall continue easterly to the asphalt pavement for the parking lot.
- C-3: Q: Are there any asphalt wedge curbs in the parking lot?
A: There are no asphalt wedge curbs proposed for this site.
- C-4: Q: On Sheet C2.2 please clarify what inlets are #1 and #2.
A: Two (2) inlets are proposed as part of this project. See Sheet C2.2.1 for the extent of proposed storm sewer work.
- C-5: Q: On Sheet C2.3.1. Confirm main water line and fire suppression lines are ductile iron.
A: See Notes "D" and "E" on Sheet C2.3.1. Also see Specification Section 02512.

C-6: Q: On Sheet C2.3. Confirm exact location of water and sanitary tie in across Route 93.

A: See Sheet C2.3.1 for extent of proposed water and sanitary sewer work.

C-7: Q: On Sheet C2.2 clarify the size of the storm lines.

A: See Sheet C2.2.1 for the extent of proposed storm sewer work.

C-8: Q: On Sheet C5.1, Detail P, is the depth of class 1 stone, WVDOT Item 307, 8" or 11"?

A: The depth of the class 1 stone, WVDOT Item 307, shall be 11". The text on Detail P/C5.1 shall read "11" Aggregate Base Course, Class 1, WVDOT Item 307".

C-9: Q: Is the gas line by us [contractor]?

A: Yes. The gas company shall determine the size of the gas line(s). The contractor shall provide the materials and install the gas line(s).

SECTION 16130
RACEWAY AND BOXES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes conduit and tubing, surface raceways, wireways, outlet boxes, pull and junction boxes, and handholes.
- B. Conduit fittings.
- C. Related Sections:
 - 1. Section 16133 - Cable Trays.
 - 2. Section 16141 - Floor Boxes.

1.2 REFERENCES

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.3 - Electrical Metallic Tubing, Zinc Coated.
- C. ANSI C80.5 - Rigid Aluminum Conduit.
- D. NECA (National Electrical Contractor's Association) - "Standard of Installation"
- E. NEMA FB 1 (National Electrical Manufacturers Association) - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies.
- F. NEMA OS 1 (National Electrical Manufacturers Association) - Sheet-steel Outlet Boxes, Device Boxes, Covers, and Box Supports.
- G. NEMA OS 2 (National Electrical Manufacturers Association) - Nonmetallic Outlet Boxes, Device Boxes, Covers and Box Supports.
- H. NEMA RN 1 (National Electrical Manufacturers Association) - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit.
- I. NEMA TC 2 (National Electrical Manufacturers Association) - Electrical Plastic Tubing (EPT) and Conduit (EPC-40 and EPC-80).
- J. NEMA TC 3 (National Electrical Manufacturers Association) - PVC Fittings for Use with Rigid PVC Conduit and Tubing.
- K. NEMA 250 (National Electrical Manufacturers Association) - Enclosures for Electrical Equipment (1000 Volts Maximum).
- L. NFPA 70 - National Electrical Code.

- M. Underwriter's Laboratory
- N. Intermediate Metal Conduit (IMC) UL 1242.
- O. Liquidtight Flexible Metal Conduit UL 360.
- P. Underground Polyvinyl Chloride (PVC) Nema TC9.
- Q. Canadian Standard Association.

1.3 SYSTEM DESCRIPTION

- A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system.
- B. Underground More than 5 feet outside Foundation Wall: Provide thickwall nonmetallic conduit encased in concrete, 3 inches all sides. Provide cast metal boxes or nonmetallic handhole.
- C. Underground Within 5 feet from Foundation Wall: Provide rigid steel conduit encased in concrete, 3 inches all sides. Provide cast metal or nonmetallic boxes. Use rigid metal sweeping 90 degree elbows when entering building from below grade.
- D. In or Under Slab on Grade: Provide thickwall nonmetallic conduit. Provide cast metal boxes.
- E. Outdoor Locations, Above Grade: Provide rigid steel. Provide cast metal outlet, pull, and junction boxes.
- F. In Slab Above Grade: Provide thickwall nonmetallic conduit. Provide cast metallic boxes.
- G. Wet and Damp Locations: Provide rigid steel metal conduit. Provide cast metal or nonmetallic outlet, junction, and pull boxes. Provide flush mounting outlet box in finished areas.
- H. Concealed Dry Locations: Provide electrical metallic tubing. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
- I. Exposed Dry Locations: Provide rigid steel conduit. Provide sheet-metal boxes. Provide flush mounting outlet box in finished areas. Provide hinged enclosure for large pull boxes.
- J. PVC conduit may be for exterior branch circuits. Encase PVC conduit in concrete when under drives and parking areas.

1.4 DESIGN REQUIREMENTS

- A. Minimum Raceway Size: 3/4 inch unless otherwise specified.

1.5 SUBMITTALS

- A. Section 01330 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit for the following:
 - 1. Flexible metal conduit.
 - 2. Liquidtight flexible metal conduit.
 - 3. Nonmetallic conduit.
 - 4. Flexible nonmetallic conduit.
 - 5. Nonmetallic tubing.
 - 6. Raceway fittings.
 - 7. Conduit bodies.
 - 8. Surface raceway.
 - 9. Wireway.
 - 10. Pull and junction boxes.
 - 11. Handholes.
- C. Manufacturer's Installation Instructions: Submit application conditions and limitations of use stipulated by Product testing agency specified under Regulatory Requirements. Include instructions for storage, handling, protection, examination, preparation, and installation of Product.

1.6 CLOSEOUT SUBMITTALS

- A. Section 01700 - Execution Requirements.
- B. Project Record Documents:
 - 1. Record actual routing of conduits larger than 2 inch trade size.
 - 2. Record actual locations and mounting heights of outlet, pull, and junction boxes.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 01600 - Product Requirements: Product storage and handling requirements.
- B. Protect conduit from corrosion and entrance of debris by storing above grade. Provide appropriate covering.
- C. Protect PVC conduit from sunlight.

1.8 COORDINATION

- A. Refer to Division 1 requirements.
- B. Coordinate mounting heights, orientation and locations of outlets mounted above counters, benches, and backsplashes.

PART 2 PRODUCTS

2.1 METAL CONDUIT

- A. Manufacturers:
 - 1. Carlon Electrical Products.
 - 2. Hubbell Wiring Devices.
 - 3. Thomas & Betts Corp.
 - 4. Walker Systems Inc.
 - 5. The Wiremold Co.
- B. Rigid Steel Conduit: ANSI C80.1.
- C. Rigid Aluminum Conduit: ANSI C80.5.
- D. Intermediate Metal Conduit (IMC): Rigid steel.
- E. Fittings and Conduit Bodies: NEMA FB 1; material to match conduit.

2.2 PVC COATED METAL CONDUIT

- A. Manufacturers:
 - 1. Carlon Electrical Products.
 - 2. Hubbell Wiring Devices.
 - 3. Thomas & Betts Corp.
 - 4. Walker Systems Inc.
 - 5. The Wiremold Co.
 - 6. B-Line Systems, Inc.
 - 7. Chal Fant.
 - 8. OBO Betterman.
- B. Product Description: NEMA RN 1; rigid steel conduit with external PVC coating, 40 mil thick.
- C. Fittings and Conduit Bodies: NEMA FB 1; steel fittings with external PVC coating to match conduit.

2.3 FLEXIBLE METAL CONDUIT

- A. Manufacturers:
 - 1. Carlon Electrical Products.
 - 2. Hubbell Wiring Devices.
 - 3. Thomas & Betts Corp.
 - 4. Walker Systems Inc.
 - 5. The Wiremold Co.
 - 6. B-Line Systems, Inc.
 - 7. Chal Fant.
 - 8. OBO Betterman.
- B. Product Description: Interlocked steel construction.

C. Fittings: NEMA FB 1.

2.4 LIQUIDTIGHT FLEXIBLE METAL CONDUIT

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.
6. B-Line Systems, Inc.
7. Chal Fant.
8. OBO Betterman.

B. Product Description: Interlocked steel construction with PVC jacket.

C. Fittings: NEMA FB 1.

2.5 ELECTRICAL METALLIC TUBING (EMT)

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.
6. B-Line Systems, Inc.
7. Chal Fant.
8. OBO Betterman.

B. Product Description: ANSI C80.3; galvanized tubing.

C. Fittings and Conduit Bodies: NEMA FB 1; steel, compression type.

2.6 NONMETALLIC CONDUIT

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Product Description: NEMA TC 2; Schedule 40 PVC.

C. Fittings and Conduit Bodies: NEMA TC 3.

2.7 NONMETALLIC TUBING

A. Manufacturers:

1. Carlon Electrical Products.

2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Product Description: NEMA TC 2.

C. Fittings and Conduit Bodies: NEMA TC 3.

2.8 SURFACE METAL RACEWAY

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Product Description: Sheet metal channel with fitted cover, suitable for use as surface metal raceway.

C. Finish: Gray enamel.

D. Fittings, Boxes, and Extension Rings: Furnish manufacturer's standard accessories; match finish on raceway.

2.9 SURFACE NONMETAL RACEWAY

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Product Description: Fiberglass channel with fitted cover, suitable for use as surface raceway.

C. Finish: Gray or painted to match.

D. Fittings, Boxes, and Extension Rings: Furnish manufacturer's standard accessories, finish to match raceway.

E. Minimum 4-3/4 inch high with center metal divide.

F. Accommodate 120 volt circuits and technology cables.

G. Two piece construction with minimum material thickness of .050 inch.

H. Provide with necessary fittings and cover plates.

I. Bond each length together with No. 12 green grounding conductor.

J. Type and sizes shall be as required by the application.

2.10 WIREWAY

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Product Description: General purpose, Oiltight and dust-tight, Raintight type wireway as required.

C. Knockouts: As required.

D. Size: 4 by 4 inch, 6 by 6 inch, 8 by 8 inch, and 12 by 12 inch; length as indicated on Drawings.

E. Cover: Hinged or Screw cover with full gaskets.

F. Connector: Slip-in or Flanged as required.

G. Fittings: Lay-in type with removable side; captive screws, drip shield.

H. Finish: Rust inhibiting primer coating with gray enamel finish.

I. 16 gauge galvanized construction with ANSI-49 epoxy gray paint.

J. NEMA 3R raintight rating in exterior applications.

K. NEMA 1 general purpose rating on interior of building.

L. Sufficient size to accommodate all cables and wires installed.

2.11 OUTLET BOXES

A. Manufacturers:

1. Carlon Electrical Products.
2. Hubbell Wiring Devices.
3. Thomas & Betts Corp.
4. Walker Systems Inc.
5. The Wiremold Co.

B. Sheet Metal Outlet Boxes: NEMA OS 1, galvanized steel.

1. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; furnish 1/2 inch male fixture studs where required.
2. Concrete Ceiling Boxes: Concrete type.

C. Nonmetallic Outlet Boxes: NEMA OS 2.

- D. Cast Boxes: NEMA FB 1, Type FD, cast ferrous alloy. Furnish gasketed cover by box manufacturer. Furnish threaded hubs.
- E. Wall Plates for Finished Areas: As specified in Section 16140.
- F. Wall Plates for Unfinished Areas: Furnish gasketed cover.

2.12 PULL AND JUNCTION BOXES

- A. Manufacturers:
 1. Carlon Electrical Products.
 2. Hubbell Wiring Devices.
 3. Thomas & Betts Corp.
 4. Walker Systems Inc.
 5. The Wiremold Co.
- B. Sheet Metal Boxes: NEMA OS 1, galvanized steel.
- C. Hinged Enclosures: As specified in Section 16131.
- D. Surface Mounted Cast Metal Box: NEMA 250, Type 1; flat-flanged, surface mounted junction box:
 1. Material: Galvanized cast iron.
 2. Cover: Furnish with ground flange, neoprene gasket, and stainless steel cover screws.
- E. In-Ground Cast Metal Box: NEMA 250, Type 6, inside flanged, recessed cover box for flush mounting:
 1. Material: Galvanized cast iron.
 2. Cover: Nonskid cover with neoprene gasket and stainless steel cover screws.
 3. Cover Legend: "ELECTRIC".
- F. Fiberglass Concrete composite Handholes: Die-molded, glass-fiber concrete composite hand holes:
 1. Cable Entrance: Pre-cut 6 inch by 6 inch cable entrance at center bottom of each side.
 2. Cover: Glass-fiber concrete composite, weatherproof cover with nonskid finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Refer to Division 1 requirements.
- B. Verify outlet locations and routing and termination locations of raceway prior to rough-in.

3.2 INSTALLATION

- A. Install Work in accordance with the International Building Code and NFPA.

- B. Install raceway and boxes in accordance with NECA "Standard of Installation."
- C. Ground and bond raceway and boxes in accordance with Section 16060.
- D. Fasten raceway and box supports to structure and finishes in accordance with Section 16070.
- E. Identify raceway and boxes in accordance with Section 16075.
- F. Arrange raceway and boxes to maintain headroom and present neat appearance.

3.3 INSTALLATION - RACEWAY

- A. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system.
- B. Install nonmetallic conduit.
- C. Arrange raceway supports to prevent misalignment during wiring installation.
- D. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
- E. Group related raceway; support using conduit rack. Construct rack using steel channel specified in Section 16070; provide space on each for 25 percent additional raceways.
- F. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports
- G. Do not attach raceway to ceiling support wires or other piping systems.
- H. Construct wireway supports from steel channel specified in Section 16070.
- I. Route exposed raceway parallel and perpendicular to walls.
- J. Route raceway installed above accessible ceilings parallel and perpendicular to walls.
- K. Route conduit in and under slab from point-to-point.
- L. Maximum Size Conduit in Slab Above Grade: 3/4 inch. Do not cross conduits in slab.
- M. Maintain clearance between raceway and piping for maintenance purposes.
- N. Maintain 12 inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F.
- O. Cut conduit square using saw or pipe cutter; de-burr cut ends.
- P. Bring conduit to shoulder of fittings; fasten securely.

- Q. Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for minimum 20 minutes.
- R. Install conduit hubs or sealing locknuts to fasten conduit to sheet metal boxes in damp and wet locations and to cast boxes.
- S. Install no more than equivalent of three 90 degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams.
- T. Avoid moisture traps; install junction box with drain fitting at low points in conduit system.
- U. Install fittings to accommodate expansion and deflection where raceway crosses seismic, control and expansion joints.
- V. Install suitable pull string or cord in each empty raceway except sleeves and nipples.
- W. Install suitable caps to protect installed conduit against entrance of dirt and moisture.
- X. Surface Raceway: Install flat-head screws, clips, and straps to fasten raceway channel to surfaces; mount plumb and level. Install insulating bushings and inserts at connections to outlets and corner fittings.
- Y. Close ends and unused openings in wireway.

3.4 INSTALLATION - BOXES

- A. Install wall mounted boxes at elevations to accommodate mounting heights.
- B. Adjust box location up to 10 feet prior to rough-in to accommodate intended purpose.
- C. Orient boxes to accommodate wiring devices oriented as specified in Section 16140.
- D. Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.
- E. Inaccessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.
- F. Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening.
- G. Do not install flush mounting box back-to-back in walls; install with minimum 6 inches separation. Install with minimum 24 inches separation in acoustic rated walls.
- H. Secure flush mounting box to interior wall and partition studs. Accurately position to allow for surface finish thickness.
- I. Install stamped steel bridges to fasten flush mounting outlet box between studs.
- J. Install flush mounting box without damaging wall insulation or reducing its effectiveness.

- K. Install adjustable steel channel fasteners for hung ceiling outlet box.
- L. Do not fasten boxes to ceiling support wires or other piping systems.
- M. Support boxes independently of conduit.
- N. Install gang box where more than one device is mounted together. Do not use sectional box.
- O. Install gang box with plaster ring for single device outlets.

3.5 INTERFACE WITH OTHER PRODUCTS

- A. Install conduit to preserve fire resistance rating of partitions and other elements, using materials and methods in accordance with Section 07840.
- B. Route conduit through roof openings for piping and ductwork or through suitable roof jack with pitch pocket. Coordinate location with roofing installation specified in Section 07531.
- C. Locate outlet boxes to allow luminaires positioned as indicated on architectural reflected ceiling plan.
- D. Align adjacent wall mounted outlet boxes for switches, thermostats, and similar devices.

3.6 ADJUSTING

- A. Refer to Division 1 requirements.
- B. Adjust flush-mounting outlets to make front flush with finished wall material.
- C. Install knockout closures in unused openings in boxes.

3.7 CLEANING

- A. Section 01700 - Execution Requirements.
- B. Clean interior of boxes to remove dust, debris, and other material.
- C. Clean exposed surfaces and restore finish.

END OF SECTION

**SUBSURFACE INVESTIGATION
DAVIS YOUTH DETENTION CENTER
TUCKER COUNTY, WEST VIRGINIA**

TRIAD PROJECT NO. 04-04-0152

SUBMITTED TO:

**MS CONSULTANTS, INC.
CHARLESTON, WEST VIRGINIA**

SUBMITTED BY:

**TRIAD ENGINEERING, INC.
ST. ALBANS, WEST VIRGINIA**

MAY 2004

P.O. Box 1435
St. Albans, WV 25177
Phone (304) 755-0721
FAX (304) 755-1880



Triad Engineering, Inc.

May 7, 2004

Mr. Ron L. Bolen, AIA
ms consultants, inc.
206 Capitol Street - 4th Floor
Charleston, West Virginia 25301-2218

Subject: **SUBSURFACE INVESTIGATION**
Davis Youth Detention Center
Tucker County, West Virginia
Triad Project No. 04-04-0152

Dear Mr. Bolen:

In accordance with your request, we have performed a subsurface investigation for the proposed Davis Youth Detention Center to be located in Tucker County, West Virginia. Authorization to proceed with this project was provided by our written agreement dated April 14, 2004.

Presented in this report are the results of the field and laboratory investigation performed to determine the subsurface conditions, as well as our conclusions and recommendations concerning the site development and foundations for the proposed buildings.

We appreciate the opportunity to have assisted you on this project and trust this report satisfies your needs at this time. Please feel free to contact us if you have any questions concerning this report, or if we can provide any further assistance.

Sincerely,

TRIAD ENGINEERING, INC.

A handwritten signature in black ink, appearing to read "John J. Haynes". The signature is fluid and cursive.

John J. Haynes, E.I.T.
Project Engineer

A handwritten signature in black ink, appearing to read "Parviz J. Jalali". The signature is cursive and somewhat stylized.

Parviz J. Jalali, P.E.
Senior Engineer

PJJ/JJH:mpc

Triad Engineering, Inc.

Morgantown • St. Albans
West Virginia

Hagerstown
Maryland

Winchester • Harrisonburg • Purcellville
Virginia

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APPENDIX

PROJECT DESCRIPTION

The project consists of a subsurface investigation for the proposed Davis Youth Detention Center to be located in Tucker County, West Virginia. The subject 46 acre site is situated along the north side of West Virginia Route 93 approximately 2 miles northeast of the intersection of WV Route 93 and WV Route 32. The site is bound to the north by an undeveloped coal mining site, to the south by WV Route 93, and to the east and west by undeveloped land.

Based on the information provided, we anticipate that the proposed facility will consist of ten masonry block buildings (A through L) with concrete slab on grade floors. Provided in the table below is a list of the proposed buildings along with their corresponding approximate finish floor elevations and the approximate amount of earthwork necessary to accommodate each building.

Building	Approximate Finish Floor Elevation (ft.)	Approximate Earthwork
A	3160	5 to 11 ft. of cut
B	3160	6 to 9 ft. of cut
C	3160	1 to 10 ft. of cut
D	3135	1 to 10 ft. of cut
E	3120	At grade to 7 ft. of cut
F	3112	At grade to 8 ft. of cut
G	3110	At grade to 2 ft. of cut
H	3110	At grade to 2 ft. of fill
I	3112	3 to 5 ft. of fill
J	3114	3 to 7 ft. of fill
K	3116	4 to 8 ft. of fill
L	3118	2 ft. of cut to 8 ft. of fill

SUBSURFACE INVESTIGATION

The subsurface investigation consisted of fourteen test borings (B-1 through B-14) drilled at the approximate locations as shown on Figure No. 1 provided in the appendix of this report. The boring locations were specified by ms consultants, inc. and

Triad Engineering, Inc. and staked in the field by a Triad survey crew prior to drilling. A complete list of the test borings along with their corresponding ground surface elevation and completion depth is provided below.

Boring	Ground Surface Elevation (ft.)	Completion Depth (ft.)
B-1	3170.08	25.2
B-2	3166.14	15.5
B-3	3160.95	13.0
B-4	3138.09	16.0
B-5	3144.50	15.2
B-6	3121.30	15.5
B-7	3125.72	17.0
B-8	3110.63	15.5
B-9	3109.41	15.5
B-10	3108.87	16.0
B-11	3109.07	16.3
B-12	3119.71	16.5
B-13	3111.54	7.0
B-14	3118.24	11.0
Total Footage (ft.)		215.2

The borings were advanced to completion depths ranging from 7.0 to 25.2 ft. below the ground surface using an ATV mounted rotary drilling rig equipped with continuous flight hollow stem augers. Standard penetration testing and sampling was performed at 2.5 ft. intervals from the ground surface to a depth of 10 ft. and at 5 ft. intervals thereafter to the boring termination depth. Standard penetration testing is performed by driving a 2.0 in. O.D. split-barrel sampler into the soil with a 140-lb. hammer dropping a distance of 30 inches. The sampler is driven a distance of 18 inches in three 6 inch increments and the number of blows required to produce the last two 6 inch increments of penetration is termed the Standard Penetration Number or "N" value. These values provide an indication of the consistency or relative density of the soil.

A 1-3/8 inch diameter soil/rock sample was obtained from the borings in conjunction with each penetration test. All standard penetration samples were placed

in air-tight glass jars. Upon completion of drilling, all samples were examined and logged by our field geologist and delivered to our St. Albans laboratory.

Groundwater level observations were made by the drilling crew during drilling operations and immediately following drilling completion. Driller's groundwater observations are presented on the boring logs and are discussed in the "Subsurface Conditions" section of this report. All borings were backfilled with auger cuttings after water levels were recorded.

LABORATORY TESTING

Laboratory tests were performed on the soil samples to generally classify and evaluate the soil strata present onsite. These tests consisted of:

- Natural Moisture Content
- Atterberg Limits

Natural moisture content and Atterberg limits laboratory tests were performed on selected jar samples which were visually determined to be representative of the soil types encountered on site. These tests aid in classification of the soils and provide a basis for estimating their engineering properties. The results of the laboratory tests are presented on the boring logs (Figure Nos. 2 through 15) provided in the appendix of this report. The results of the Atterberg limits testing are also shown graphically on Figure Nos. 16 through 18 provided in the appendix.

SUBSURFACE CONDITIONS

Borings B-1 through B-14 were drilled at the locations of the proposed buildings and parking lot areas as shown on the Boring Location Plan sheet provided as Figure No. 1 in the appendix of this report. For specific details regarding the subsurface conditions, refer to the boring logs provided as Figure Nos. 2 through 15 in the appendix of this report. A brief description of the subsurface conditions is presented below.

The soil overburden encountered in all fourteen test borings consisted of natural silty to sandy clay. The natural silty to sandy clay encountered in Borings B-1 through B-14 extended to the bedrock surface encountered at depths ranging from 3.0 to 18.5 ft. below the ground surface. Standard penetration values obtained within the natural silty to sandy clay generally ranged from a low of 11 to a high of 46 blows per foot of

penetration. This range of values is indicative of a stiff to hard soil consistency. Lower penetration values were obtained in some of the test borings near the ground surface. Results of laboratory testing indicate the natural moisture content of the silty to sandy clay ranges from 8 to 36 percent and has plasticity indices ranging from 6 to 14 percent.

Bedrock was encountered in all fourteen test borings at depths ranging from 3.0 to 18.5 ft. below the ground surface. The bedrock encountered in Borings B-1 through B-14 generally consisted of very soft to soft shale with occasional discontinuous layers of very soft to soft claystone.

Groundwater was encountered at depths ranging from 14.0 to 20.0 ft. below the ground surface in Borings B-1 and B-6 during drilling operations and immediately following drilling completion. The remainder of the test borings were noted to be dry during drilling operations and immediately following drilling completion. It is noted that groundwater levels typically fluctuate and are generally dependent upon climatic conditions. Groundwater conditions at the time of construction may differ from those observed during our investigation.

CONCLUSIONS AND RECOMMENDATIONS

Site Preparation and Development

All existing vegetation, topsoil, and/or trees and tree stumps within the proposed construction area should be completely removed prior to beginning site grading operations. Any overhead or underground utilities within the construction area should be removed/relocated prior to beginning construction. Voids created by removal of underground utilities or tree stumps in the areas at or near the subgrade elevation and in the fill areas should be backfilled in accordance with the recommendations provided herein. All spoil material should be disposed of off-site.

We recommend the portion of the site to be filled be proof rolled with a steel drum roller (minimum weight of 10 tons). This will help to detect isolated soft areas and densify the upper surface in preparation for new construction. Any soft/wet areas which are detected should be undercut to a firm level and backfilled in accordance with the fill recommendations provided herein. We recommend our engineer inspect and document the proof rolling operation. We anticipate the required extent of undercut and backfill work will be largely dependent upon the quantity of precipitation prior to and during site grading work.

Based on the information provided, it is anticipated that as much as 11 ft. of cut will be required along portions of the northwestern corner of the site and as much as 8 ft. of fill will be required along portions of the southeastern corner of the site in order to provide the desired finish floor elevations. The scope of this investigation did not include any stability analyses. However, to minimize the potential for slope instability, all cut and fill slopes constructed should not be steeper than 2:1 (Horizontal:Vertical) whereas slopes of 3:1 (H:V) are preferred. The top 12 inches of subgrade along the entire cut area should be compacted in accordance with "Fill and Backfill" recommendations section of this report.

The development of the site should address surface drainage. Appropriate drainage should be provided both during and after site grading is complete such that surface water does not become ponded or entrapped in excavations or around the proposed structure. We recommend any excavation in which workers are required to enter be properly shored or sloped in accordance with OSHA regulations. We do not anticipate groundwater will be encountered in excavations. However, if groundwater or surface runoff does enter excavations, it should be promptly removed by pumping from a strategically located sump(s).

Due to the cohesive nature of the soils encountered on site, "pumping" conditions could develop during site development if the materials are subjected to excessive construction traffic and/or if fill placement is performed during wet weather. The likelihood that these conditions will develop can be reduced by minimizing the concentration of construction traffic, particularly rubber tired equipment, and by providing adequate drainage. If "pumping" conditions develop, measures such as over-excavation and placement of stabilization fabric and/or placement of a layer of crushed stone may be necessary to facilitate proper fill placement and compaction.

Fill and Backfill

Based on the gently sloping topography of the property and the approximate finish floor elevations provided, we anticipate as much as 8 ft. of fill will be required along portions of the project site. All fill or backfill material necessary to develop the site should consist of inorganic soil or crushed rock material with a maximum plasticity index of 15 percent. A maximum particle size of 4 inches should be maintained for all fill and backfill. Based on these criteria, material from onsite excavations should be suitable for use as fill or backfill, provided the moisture content is adjusted as required to meet compaction criteria. Fill or backfill should be placed in maximum 8 inch loose lifts and compacted to 95 percent of the maximum dry density as determined by the standard Proctor laboratory test (ASTM D-698). The moisture content of all fill should

not vary more than two percent of the optimum moisture content as determined by the standard Proctor test.

Foundation Recommendations

Based on the approximate finish floor elevations provided and the results of the test borings, we anticipate the proposed buildings will bear on natural silty to sandy clay, weathered shale bedrock, or new fill. Provided the fill and backfill recommendations provided herein are utilized, these materials should be suitable for support of the proposed buildings on a conventional spread foundation system. We recommend a maximum allowable bearing pressure of 2,500 psf be used to design spread footings for the project. All spread foundations should be constructed to bear a minimum of 30 inches below final grade in order to provide adequate frost protection. Foundations should be designed for minimum footing widths of 24 and 36 inches for continuous wall and individual column footings, respectively. Although these dimensions may not fully utilize the recommended bearing pressure, they should be maintained to minimize the potential for a local shear type bearing failure. It should be noted that any hard bedrock which requires jackhammering encountered during the foundation excavations should be overexcavated a minimum of 2 ft. below the proposed bearing elevation and backfilled in accordance with the recommendations provided in the "Fill and Backfill" section of this report. Foundations supported partially on soil and partially on competent bedrock could experience damaging differential settlement.

The soil bearing materials present at the site are susceptible to softening if left exposed to air and/or standing water for an extended period of time. Therefore, footing concrete should be placed as soon as possible after the excavation is completed. We recommend all completed foundation excavations be examined by our geotechnical engineer prior to placing footing concrete to verify the bearing materials are suitable for the design bearing pressure.

Settlement Considerations

Settlements due to structural loading were estimated using the results of the test borings and a foundation bearing pressure of 2,500 psf. Soil compression parameters were estimated based on the bearing soil type, laboratory test results, standard penetration values, and our past experience with similar conditions. Based on this information, we estimate a maximum foundation settlement of approximately 1 inch for each of the proposed buildings. Maximum differential settlement which could occur along continuous wall or between individual column foundations is estimated to be in the order of ½ inch.

Floor Slab Recommendations

Based on the information provided, it is anticipated that the building floor slabs will bear on natural silty to sandy clay soil, weathered shale bedrock, or new fill. These materials should provide adequate support for slab-on-grade construction provided the site preparation and fill placement recommendations provided in this report are followed. A minimum four inch layer of crushed stone such as ASTM No. 57 coarse aggregate should be placed under the slab-on-grade to serve as a capillary water barrier and a leveling surface.

Pavement Considerations

Based on the information provided and the results of the test borings, it is anticipated that the pavement areas will be over natural silty to sandy clay, weathered shale bedrock, and new fill. These materials should provide adequate support for pavement. Any fill required in pavement areas should be placed and compacted to at least 95 percent of the maximum dry density as determined by the standard Proctor laboratory test. In areas where the pavement will be placed on existing natural soils, we recommend the top 12 inches of pavement subgrade also be compacted to this fill criteria. It is important that placement of both base stone and pavement be conducted immediately after final soil subgrade approval has been obtained due to the potential for subgrade softening from adverse weather conditions. In addition, heavy construction traffic should be limited from traveling across approved final subgrade areas in order to help maintain a stable subgrade prior to pavement construction.

All pavement materials and placement procedures should be in accordance with West Virginia Division of Highways Standard Specifications for Roads and Bridges, latest edition. The subgrade should be graded such that water does not become ponded or entrapped beneath the pavement system. We recommend an appropriately designed concrete pavement be used in areas which will receive heavy truck traffic.

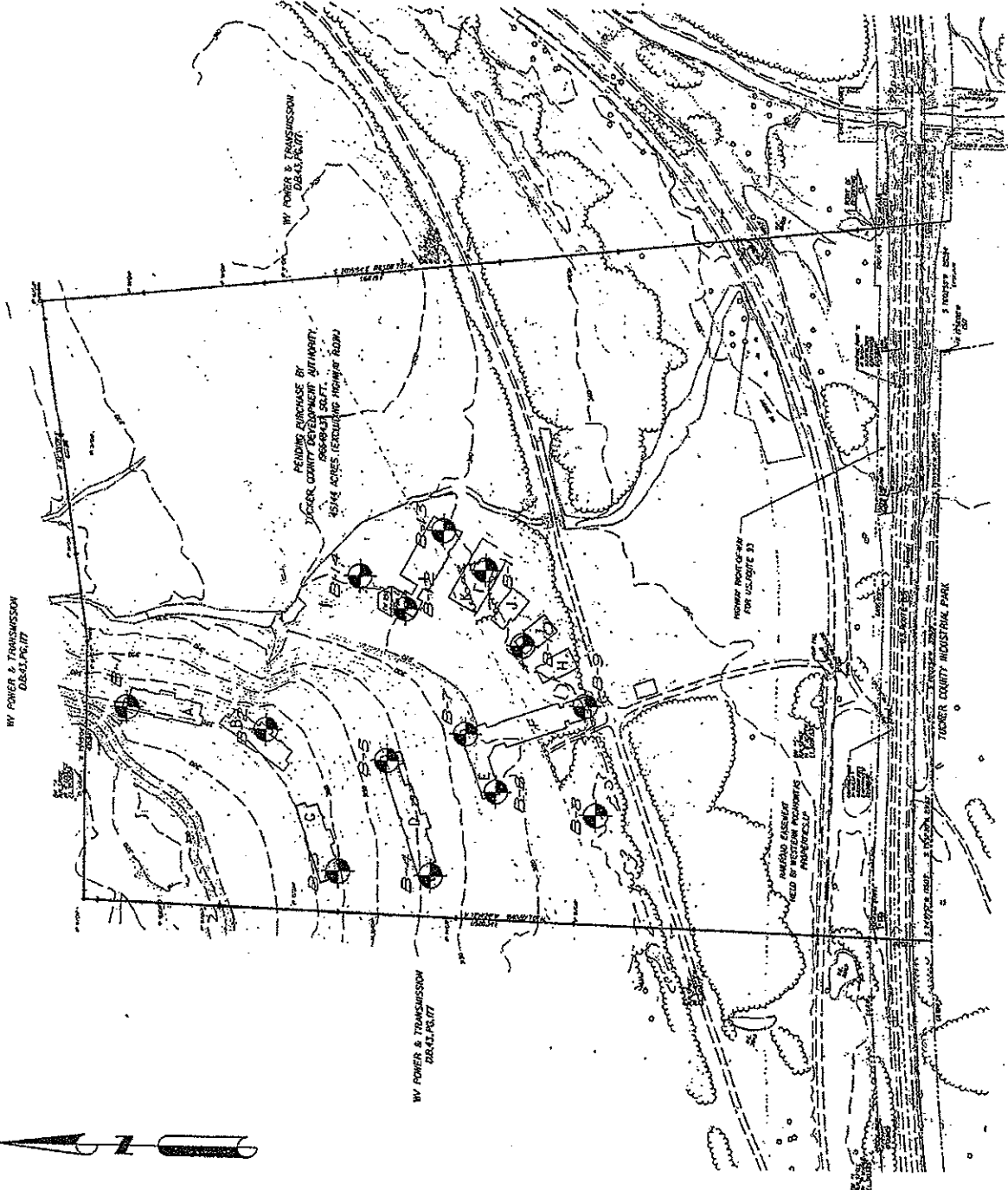
QUALITY CONTROL

Fill placement and compaction should be monitored by our firm to verify the suitability of the fill and that compaction requirements are met. Foundation excavations should be inspected by our geotechnical engineer to verify the bearing materials and their adequacy with respect to our recommendations. Should our firm not be selected to provide these services, we cannot be responsible for problems arising from the misinterpretation of the recommendations contained in this report.

LIMITATIONS

1. This work has been prepared for the exclusive use of ms consultants, inc. for use in planning and design of the proposed Davis Youth Detention Center to be located in Tucker County, West Virginia. The work has been performed in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.
2. In the event that changes in the nature, design or location of the proposed structures are planned, the conclusions and recommendations presented herein should not be considered valid unless we have reviewed the changes and modified or verified the conclusions and recommendations.
3. The conclusions and recommendations contained in this report are based in part on the data obtained from the borings and our field observations. The nature and extent of the variations between borings and observation locations may not be evident until construction. If variations become evident during construction, we should be contacted in order that actual conditions can be reviewed and applicable conclusions and recommendations can be re-evaluated.

APPENDIX



BY POWER & TRANSMISSION
DB-41, PG-177

BY POWER & TRANSMISSION
DB-41, PG-177

BY POWER & TRANSMISSION
DB-41, PG-177

PENDING PURCHASE BY
TUCKER COUNTY DEVELOPMENT AUTHORITY.
DB-41, PG-177.
SINKAGE AREAS (INCLUDING HOLLOW ROAD)

AMERIND CASHERY
(FED BY WESTERN HOLDINGS
INDUSTRIES)

POWER POINTS FOR
ULTRAVIOLET

TUCKER COUNTY INDUSTRIAL PARK

LAWRENCE CREEK

6 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

3 1/2' x 10' x 8'

SCALE : 1" = 200'

BORING LOCATION PLAN
DAVIS YOUTH DETENTION CENTER
TUCKER COUNTY, WEST VIRGINIA

CIAD

FIGURE No. 1

LOG OF BORING NO. B-1

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	MATERIAL DESCRIPTION	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
Location: See Figure No. 1 Surface El.: 3170.1 feet Split Spoon Shelby Tube Rock Core												
5			Brown SILTY CLAY with some rock fragments, moist, medium stiff to very stiff - dark brown and silty to sandy (0.0 - 5.0 ft.)			3-3-3				20		
						5-6-6						
						4-8-8				19	41	27
						3-5-8						
						4-5-12						
						3-6-5						
			18.5									
20			Brown SHALE , fissile, very soft to soft - gray (25.0 - 25.2 ft.)			25-28-36						
						50/2"						
			25.2									
			Bottom of Test Boring at 25.2 ft.									
30												
Completion Depth: 25.2 feet Date Boring Started: 4/20/04 Date Boring Completed: 4/20/04 Engineer/Geologist: JJH/JTS Project No.: 04-04-0152			Remarks: Ground water was first noted at 20.0 ft. below the ground surface during soil drilling operations and at 18.5 ft. below the ground surface upon borehole completion.									

BORING_04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

LOG OF BORING NO. B- 2

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3166.1 feet MATERIAL DESCRIPTION	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
5	X	[Symbol]	Brown <u>SANDY CLAY</u> with some rock fragments, moist, medium stiff to hard - with numerous rock fragments (2.5 - 4.0 ft.)			3-2-3 12-26-20 6-9-10				8		
8.0			Brown <u>SHALE</u> , fissile, very soft to soft			10-13-13 12-18-26						
15	X	[Symbol]	Bottom of Test Boring at 15.5 ft.			50/6"						
15.5												

BORING_04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ #13004

Completion Depth: **15.5 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: Borehole was noted to be dry during soil drilling operations and upon borehole completion.

LOG OF BORING NO. B-3



Project Description: **Davis Youth Detention Center
Tucker County, West Virginia**

Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3161.0 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			MATERIAL DESCRIPTION									
5	X		Brown <u>SANDY CLAY</u> with some rock fragments, moist, medium stiff to very stiff			5-3-3						
	X					6-8-10				16		
	X					10-26-20						
	X		Brown <u>SHALE</u> , fissile, very soft to soft			19-49-50/5"						
10	X		- coal lens (10.4 - 11.1 ft.)			18-22-38						
	X		- auger refusal at 13.0 ft.									
			Bottom of Test Boring at 13.0 ft.									

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

Completion Depth: **13.0 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

LOG OF BORING NO. B-4

Project Description: **Davis Youth Detention Center
Tucker County, West Virginia**



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3138.1 feet <div style="font-size: small;"> Split Spoon Shelby Tube Rock Core </div>	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			MATERIAL DESCRIPTION									
	X		Brown SANDY CLAY with some rock fragments, moist, soft to very stiff			1-2-1				21		
5						10-10-12						
	X		Reddish brown and gray CLAYSTONE , very soft to soft			8-30-50/6"						
						50/6"						
10						15-18-18						
	X		Light brown and gray SHALE , fissile, very soft to soft			28-50/6"						
15												
			Bottom of Test Boring at 16.0 ft.									
20												
25												
30												

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

Completion Depth: **16.0 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

LOG OF BORING NO. B-5

Project Description: **Davis Youth Detention Center
Tucker County, West Virginia**



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3144.5 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit	
			MATERIAL DESCRIPTION										
	X	X	Brown <u>SANDY CLAY</u> with some rock fragments, moist, medium stiff to very stiff			3-3-3							
	X	X					7-11-16						
5	X	X					8-16-11				11		
	X	X					8-8-15						
10	X	X		10.5			18-50/6"						
	X	X	Light gray <u>SHALE</u> , fissile, soft										
15	X	X	15.2			50/2"							
			Bottom of Test Boring at 15.2 ft.										
20													
25													
30													

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

Completion Depth: **15.2 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

LOG OF BORING NO. B-6

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3121.3 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			Legend: Split Spoon Shelby Tube Rock Core MATERIAL DESCRIPTION									
4.5	X		Brown <u>SANDY CLAY</u> with some rock fragments, moist, stiff to very stiff			4-4-6						
6.5	X					6-6-9				14	26	20
8.5	X						4-8-8					
10.5	X						12-11-15					
12.5	X		Light brown and gray <u>SHALE</u> , fissile, very soft to soft									
14.5	X						23-22-18					
15.5	X		Bottom of Test Boring at 15.5 ft.			50/6"						

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

Completion Depth: **15.5 feet**
 Date Boring Started: **4/19/04**
 Date Boring Completed: **4/19/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: Ground water was first noted at 14.0 ft. below the ground surface during soil drilling operations and upon borehole completion.

LOG OF BORING NO. B-7

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	MATERIAL DESCRIPTION	Recovery %	ROD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
Location: See Figure No. 1 Surface El.: 3125.7 feet Split Spoon Shelby Tube Rock Core												
0 - 5	X		Light brown <u>SANDY CLAY</u> with some rock fragments, moist, soft to very stiff			1-2-2						
5 - 8.0	X					8-10-11						
8.0 - 10	X					6-9-9				16		
10 - 12	X		Light brown and gray <u>SHALE</u> , fissile, very soft to soft			16-21-22						
12 - 15	X					12-16-20						
15 - 17.0	X		- auger refusal at 17.0 ft.			50/6"						
17.0 - 30			Bottom of Test Boring at 17.0 ft.									

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

Completion Depth: **17.0 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

LOG OF BORING NO. B-8

Project Description: **Davis Youth Detention Center
Tucker County, West Virginia**



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3110.6 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			MATERIAL DESCRIPTION									
0 - 7.5	Split Spoon	X	Light brown <u>SILTY CLAY</u> with some rock fragments, moist, soft to very stiff			1-1-2				23		
7.5 - 15.5	Shelby Tube	W	Dark gray <u>SHALE</u> , carbonaceous, fissile, very soft to soft			6-8-8 4-7-9 22-15-22 12-18-24						
15.5 - 15.5	Rock Core	■	Bottom of Test Boring at 15.5 ft.			50/6*						

Completion Depth: **15.5 feet**
 Date Boring Started: **4/20/04**
 Date Boring Completed: **4/20/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

The stratification lines represent approximate strata boundaries. In situations, the transition may be gradual.

Figure 9

LOG OF BORING NO. B-9

Project Description: **Davis Youth Detention Center
Tucker County, West Virginia**




Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3109.4 feet	MATERIAL DESCRIPTION	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
0				Light brown <u>SANDY CLAY</u> with some rock fragments, moist, stiff			2-4-5						
5							5-6-5				13		
6.5				Reddish brown and gray <u>CLAYSTONE</u> , soft			5-5-6						
10				Light gray <u>SHALE</u> , fissile, soft			25-50/5"						
15							30-50/3"						
15.5				Bottom of Test Boring at 15.5 ft.			50/6"						

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

Completion Depth: **15.5 feet**
 Date Boring Started: **4/19/04**
 Date Boring Completed: **4/19/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: **Borehole was noted to be dry during soil drilling operations and upon borehole completion.**

LOG OF BORING NO. B-10												
Project Description:		Davis Youth Detention Center Tucker County, West Virginia										
Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3108.9 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			MATERIAL DESCRIPTION									
0 - 3.0	Split Spoon	X	Light brown <u>SILTY CLAY</u> with some rock fragments, moist, soft			2-2-2				36		
3.0 - 16.0	Shelby Tube	W	Light brown and gray <u>SHALE</u> , fissile, very soft to soft			6-26-35						
						22-22-24						
						15-30-50/2"						
						50/6"						
			- dark gray (15.0 - 15.5 ft.)									
			- auger refusal at 16.0 ft.			50/6"						
16.0 - 16.0			Bottom of Test Boring at 16.0 ft.									
16.0 - 30												

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

Completion Depth: 16.0 feet
 Date Boring Started: 4/19/04
 Date Boring Completed: 4/19/04
 Engineer/Geologist: JJH/JTS
 Project No.: 04-04-0152

Remarks: Borehole was noted to be dry during soil drilling operations and upon borehole completion.

LOG OF BORING NO. B-11

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	MATERIAL DESCRIPTION	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
Location: See Figure No. 1 Surface El.: 3109.1 feet Split Spoon Shelby Tube Rock Core												
5	X		Brown <u>SILTY CLAY</u> with some rock fragments, moist, soft to stiff			2-2-2						
	X		- dark gray (5.0 - 6.5 ft.)			5-6-7				16		
	X					4-5-7						
	X		Light brown and gray <u>SHALE</u> , fissile, soft			50/6"						
10	X					26-48-50/2"						
15	X		- auger refusal at 16.3 ft.			50/2"						
	X		Bottom of Test Boring at 16.3 ft.									

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

Completion Depth: **16.3 feet**
 Date Boring Started: **4/19/04**
 Date Boring Completed: **4/19/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: Borehole was noted to be dry during soil drilling operations and upon borehole completion.

LOG OF BORING NO. B-12

Project Description: Davis Youth Detention Center
Tucker County, West Virginia



Depth, feet	Sample Type	Symbol / USCS	Location: See Figure No. 1 Surface El.: 3119.7 feet	Recovery %	RQD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
			MATERIAL DESCRIPTION									
	X	X	Brown <u>SILTY CLAY</u> with some rock fragments, moist, soft to very stiff			2-2-2						
5	X	X				2-5-8				26	37	28
	X	X				7-10-12						
	X	X	7.5									
	X	X	Light brown <u>CLAYSTONE</u> , very soft			16-16-16						
10	X	X	10.5			10-18-15						
	X	X	Light brown and gray <u>SHALE</u> , fissile, very soft to soft									
15	X	X	16.5			18-24-50/6"						
			Bottom of Test Boring at 16.5 ft.									
20												
25												
30												

Completion Depth: **16.5 feet**
 Date Boring Started: **4/19/04**
 Date Boring Completed: **4/19/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: Borehole was noted to be dry during soil drilling operations and upon borehole completion.

N10622

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

LOG OF BORING NO. B-13

Project Description: Davis Youth Detention Center
Tucker County, West Virginia

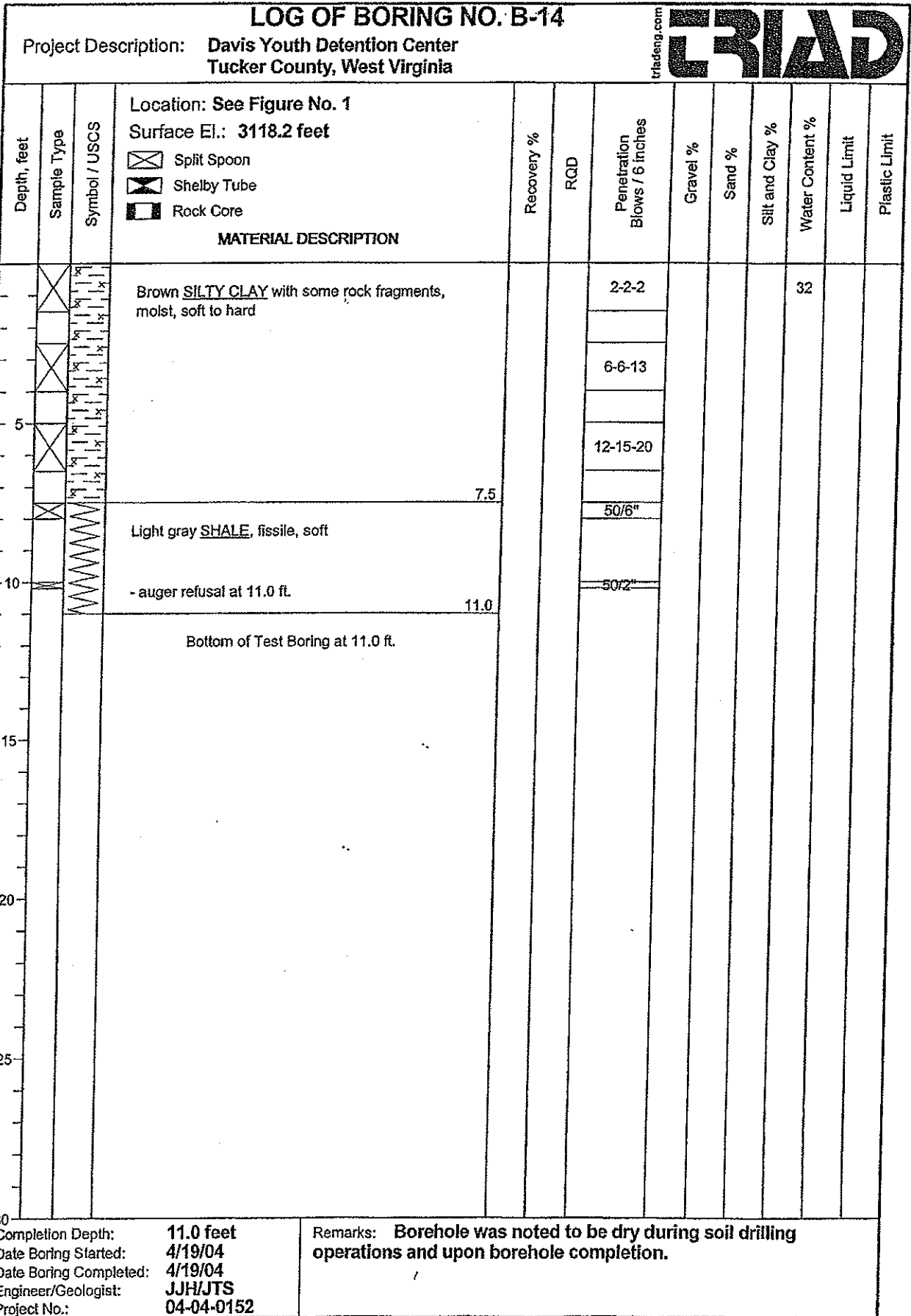


Depth, feet	Sample Type	Symbol / USCS	MATERIAL DESCRIPTION	Recovery %	ROD	Penetration Blows / 6 inches	Gravel %	Sand %	Silt and Clay %	Water Content %	Liquid Limit	Plastic Limit
Location: See Figure No. 1 Surface El.: 3111.5 feet Split Spoon Shelby Tube Rock Core												
			Brown <u>SANDY CLAY</u> with some rock fragments, moist, medium stiff to very stiff			3-2-3				29		
						11-10-11						
5			Gray <u>SHALE</u> , fissile, soft - auger refusal at 7.0 ft.	5.5		8-25-50/3"						
			Bottom of Test Boring at 7.0 ft.	7.0								
10												
15												
20												
25												
30												

BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/20/04

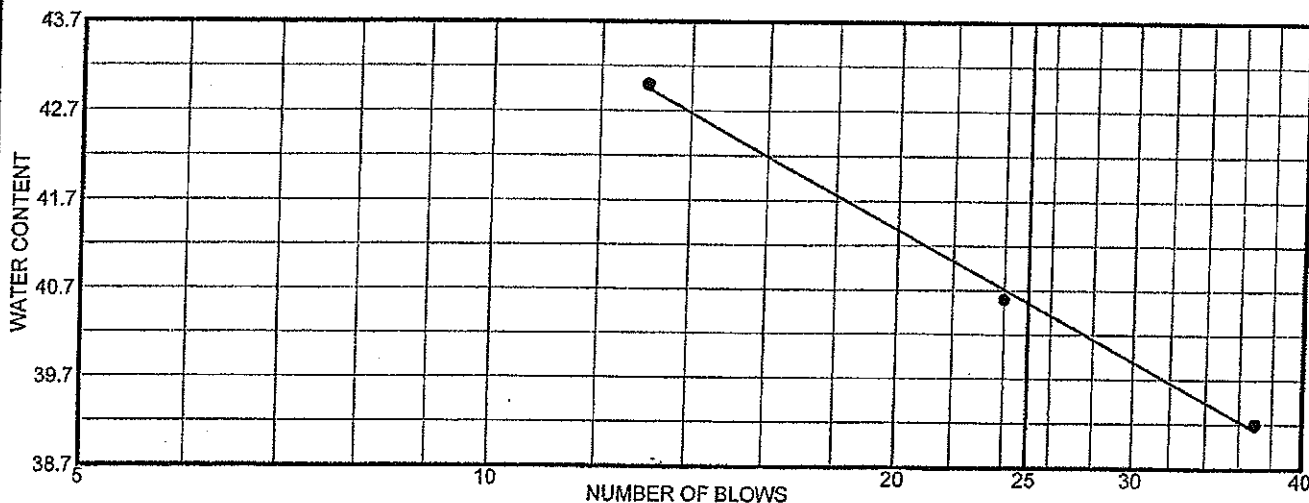
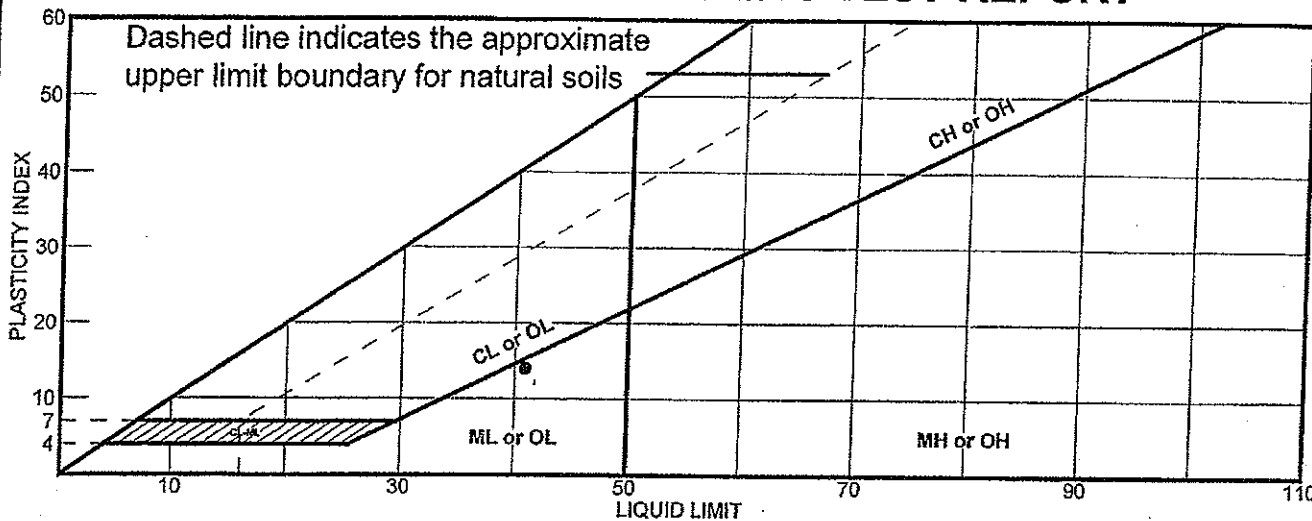
Completion Depth: **7.0 feet**
 Date Boring Started: **4/19/04**
 Date Boring Completed: **4/19/04**
 Engineer/Geologist: **JJH/JTS**
 Project No.: **04-04-0152**

Remarks: Borehole was noted to be dry during soil drilling operations and upon borehole completion.



BORING 04-04-0152 DAVIS YOUTH DETENTION CENTER BORING LOGS.GPJ 4/30/04

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
• LT. BROWN SANDY CLAY	41	27	14			

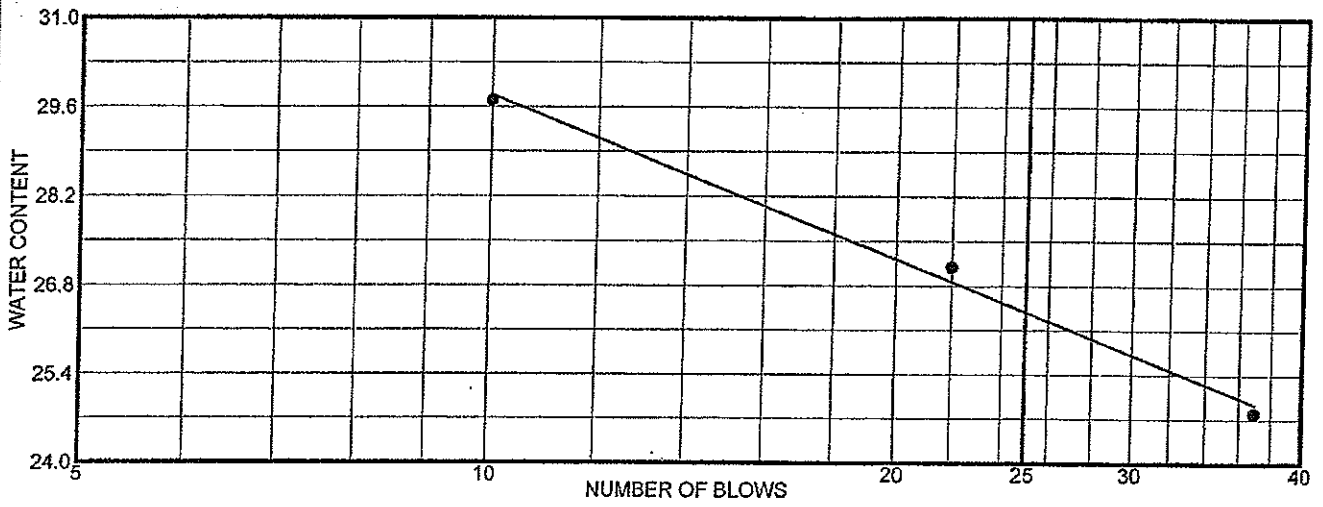
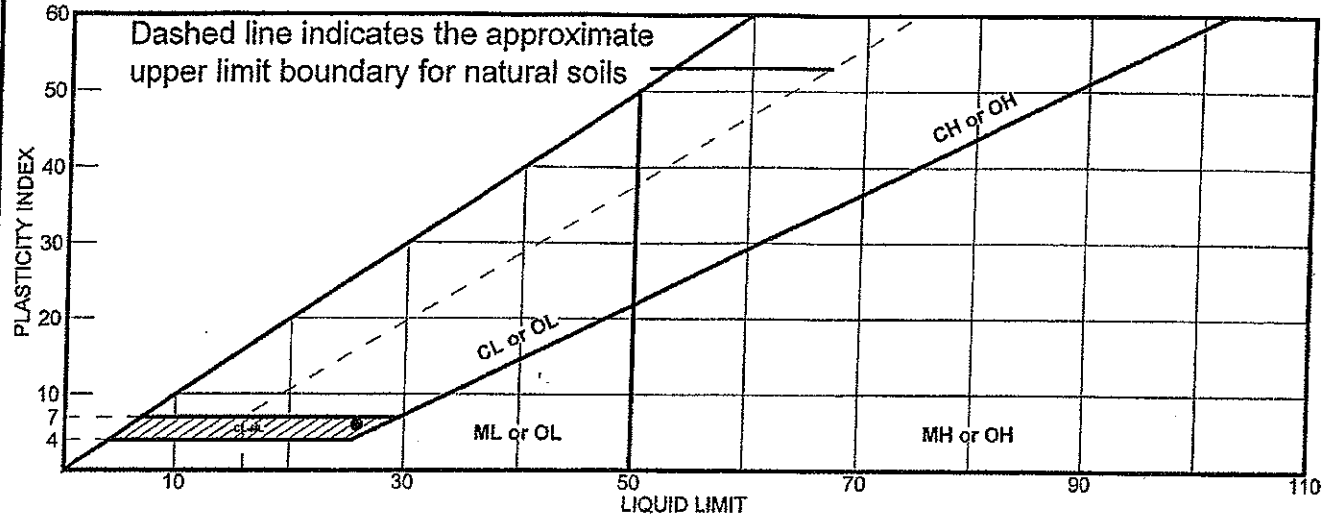
Project No. 04-04-0152 Client: MS CONSULTANTS, INC.
 Project: DAVIS YOUTH DETENTION CENTER
 • Source: Sample No.: B-1, S-3 Elev./Depth: 5.0' - 6.5'

Remarks:
 •

LIQUID AND PLASTIC LIMITS TEST REPORT
TRIAD ENGINEERING

Figure 16

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● LT. BROWN SANDY CLAY	26	20	6			

Project No. 04-04-0152 Client: MS CONSULTANTS, INC.
 Project: DAVIS YOUTH DETENTION CENTER

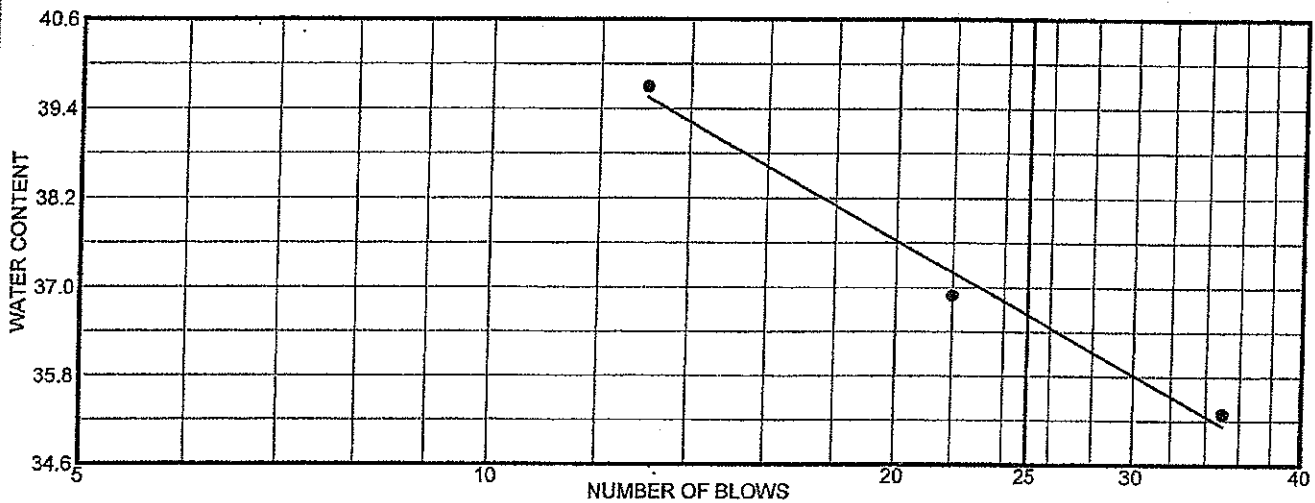
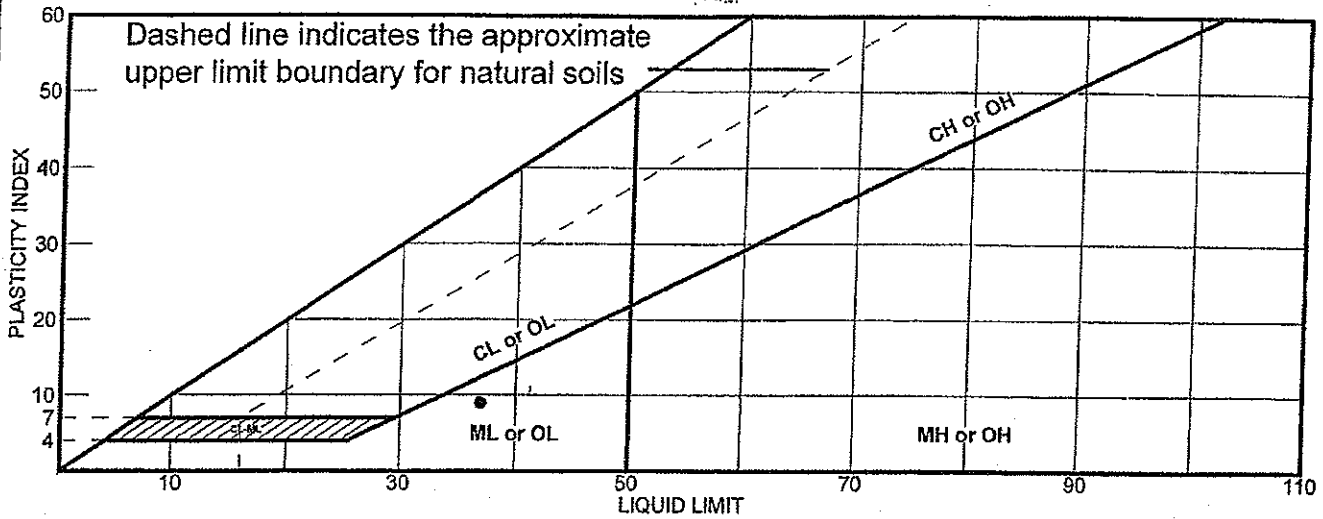
● Source: Sample No.: B-6, S-2 Elev./Depth: 2.5' - 4.0'

Remarks:
 ●

LIQUID AND PLASTIC LIMITS TEST REPORT
TRIAD ENGINEERING

Figure 17

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
● LT. BROWN SANDY CLAY	37	28	9			

Project No. 04-04-0152 Client: MS CONSULTANTS, INC.
 Project: DAVIS YOUTH DETENTION CENTER

● Source: Sample No.: B-12, S-2 Elev./Depth: 2.5' - 4.0'

Remarks:
 ●

LIQUID AND PLASTIC LIMITS TEST REPORT
TRIAD ENGINEERING

Figure 18

SIGN IN SHEET

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PRE-BID SIGN-IN SHEET- PLEASE LEAVE A BUSINESS CARD - RJC2014 - 4/8/2008; 1:30 PM

FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: <u>MS CONSULTANTS</u>	<u>2221 SEMPORC RD</u>	PHONE <u>614-898-7100</u>
Rep: <u>MIKE LONGHARE</u>	<u>COLUMBUS, OHIO</u>	TOLL FREE
Email Address: <u>MICHELANGELOMSCONSULTANTS.COM</u>		FAX <u>614-898-7570</u>
Company: <u>MS CONSULTANTS</u>	<u>2221 SEMPORC RD</u>	PHONE <u>614-898-7100</u>
Rep: <u>John Knapik</u>	<u>Columbus, OH</u>	TOLL FREE
Email Address: <u>john.knapik@msconsultants.com</u>		FAX
Company: <u>MS CONSULTANTS</u>	<u>" "</u>	PHONE <u>" "</u>
Rep: <u>John Knapik</u>		TOLL FREE
Email Address: <u>SEE MIKE LONGHARE</u>		FAX
Company: <u>MS CONSULTANTS INC.</u>	<u>" "</u>	PHONE <u>614-898-7100</u>
Rep: <u>JEFF JACKSON</u>		TOLL FREE
Email Address: <u>SEE MIKE LONGHARE</u>		FAX
Company: <u>W.V. REG JAIL</u>		PHONE
Rep: <u>CHITLON LILLY</u>	<u>1325 VIRGINIA ST EAST</u>	TOLL FREE
Email Address: <u>CLILLY@WVIRVA.STATE.GOV US CHARLESTON WV 25301</u>		FAX

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Company: <u>City Window + Const Co.</u> <u>General Contractors</u> Rep: <u>Mark Bud Henderson - owners</u> Email Address: <u>Bud@HREA.coop</u>	<u>RD Box 285</u> <u>CLARKSBURG WVA 26301</u>	PHONE <u>304-623-2573 ext 103</u> TOLL FREE <u>1-800-8</u> FAX <u>623-5179</u>
Company: <u>DAVE WARE</u> Rep: <u>DRANGE CONST CORP</u> Email Address: <u>DRANGECONST@AOL.COM</u>	<u>170 OLD CHEAT RD.</u> <u>MORGANTOWN, WV 26508</u>	PHONE <u>(304) 291-6765</u> TOLL FREE FAX <u>(304) 291-6975</u>
Company: <u>CENTRAL WV HEATING & COOLING</u> Rep: <u>LAKE SCHOENH</u> Email Address: <u>CentralWVHeatingandcooling@verizon.net</u>	<u>P.O. Box 125</u> <u>Newburg WV 26410</u>	PHONE <u>(304) 622-6605</u> TOLL FREE FAX <u>(304) 265-4311</u>
Company: <u>Manheim Corp.</u> Rep: <u>Pete Crespan</u> Email Address: <u>pcrespan@manheimcorp.com</u>	<u>2005 Greentree Rd.</u> <u>Pittsburgh, PA 15220</u>	PHONE <u>(412) 306-0534</u> TOLL FREE FAX <u>(412) 306-0535</u>
Company: <u>B-N-A Heating & Cooling LLC</u> Rep: <u>Bob AYERSman</u> Email Address: <u>BobAHeating@yahoo.com</u>	<u>Rt 1 Box 500</u> <u>Roxbury WV 26425</u>	PHONE <u>304-454-9714</u> TOLL FREE FAX <u>304-454-9716</u>

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Company: Deklewa Construction	1273 Washington Pike	PHONE 412-257-9000
Rep: Jim Frye	Bridgeville Pa 15015	TOLL FREE
Email Address: JFrye@deklewa.com		FAX 412-257-4406
Company: MARKS - LANNAN BUILDING Co.	18 GARAGE LANE	PHONE 304 624 5612
Rep: JAMES L. MARKS	BRIDGEPORT WVA 26330	TOLL FREE
Email Address: MARKS CONST @ AOL.COM		FAX
Company: G.A. BROWN & SON, INC	215 MILL STREET	PHONE 304-363-4500
Rep: WARREN GREG " GREGORY	FAIRMONT WV 26554	TOLL FREE
Email Address: WREGGORY@GABROWN.COM		FAX 304-366-9456
Company: Restaurant R & R	219 South Beverly	PHONE 304-328-2800
Rep: Gullard McDerben		TOLL FREE 2600
Email Address:		FAX 304.328.2602
Company: Alcon Supply	Po Box 141	PHONE 304-592-5134
Rep: Tony Closson	Bridgeport 26330	TOLL FREE 304-669-0268
Email Address: TCLOSSON@ALLENCO.COM		FAX 304-592-5411

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Company: <u>HAYSLETT CONSTRUCTION CO.</u>	<u>PO BOX 447</u>	PHONE <u>304-389-2786</u>
Rep: <u>JAMES B YOAK, JR</u>	<u>HUNNACRE, WV 25526</u>	TOLL FREE
Email Address: <u>JYOAK@CITYNET.NET</u>		FAX <u>304-757-9561</u>
Company: <u>POERIO INC.</u>	<u>467 LOWRIES RUN RD.</u>	PHONE <u>412-366-6767</u>
Rep: <u>Dave Cook</u>	<u>PITTSBURGH PA 15237</u>	TOLL FREE
Email Address: <u>dcook@poerio.com</u>		FAX <u>412-366-1404</u>
Company: <u>ALCOM, LLC</u>	<u>299 BAYERS RIDGE ROAD</u>	PHONE <u>304.594.3545</u>
Rep: <u>BRUCE COGAR</u>	<u>MORGANTOWN, WV 26508</u>	TOLL FREE
Email Address: <u>bcogar@fallenco.com</u>		FAX <u>304.288.4992 (CELL)</u>
Company: <u>MASTER SERVICE MCO-ATLANTA</u>	<u>P.O. BOX 2417</u>	PHONE <u>304-636-8170</u>
Rep: <u>BRYAN TOTTEN</u>	<u>ELKENS, WV 26241</u>	TOLL FREE
Email Address: <u>BTOTTEN@VERIZON.NET</u>	<u>(ELECT. CONTRACTOR)</u>	FAX <u>304-636-8206</u>
Company: <u>William R Sharpe inc</u>	<u>406th 6th St Clarksburg</u>	PHONE <u>304 622-4681</u>
Rep: <u>Tim Sharpe</u>	<u>WV. P.O. Box 789</u>	TOLL FREE
Email Address: <u>wmrsharpeinc@comcast.net</u>	<u>26301</u>	FAX <u>304 622-2752</u>

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Company: Macabee Industrial Rep: Bob DeBord Email Address: bdebord@macabeeind.net	113 Weber St Belle Vernon, PA 15012	PHONE 724-930-7557 TOLL FREE FAX 724-930-7555
Company: March Westin Rep: Kevin Pifer Email Address: K.Pifer@MarchWestin.com	300 Frontier St. Martinsburg WV 261505	PHONE 599-4880 TOLL FREE FAX 599-7509
Company: GAG Builders Rep: Rod Orlem Email Address: rorem@gandgbuilders.com	500 Corporate Centre Drive Scott Depot WV 25560	PHONE 304-757-9196 TOLL FREE FAX 304-257-0993
Company: H.D. Supply Co Rep: Kevin M Ames Email Address: Kevin.Ames@HD Supply.com	311 Water St Stonewood WV 26301	PHONE 304-626-3090 TOLL FREE 1800-654-4531 FAX 304-626-3093
Company: Central Supply Co. Rep: CHRIS Foy / Mike Wimer Email Address: ccfy@centralSupplyWV.com	Elkins WV	PHONE 304 641-5577 TOLL FREE FAX 304-592-5546

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Company: <u>Tri County Electric Co. 240 Scott Ave. Suite 3</u>		PHONE <u>304-965-6480</u>
Rep: <u>Molly Andreon</u>	<u>Morgantown WV 26508</u>	TOLL FREE <u>304-965-6482</u>
Email Address: <u>greg@pennlive.com</u>		FAX
Company: <u>Davis Center / DSS</u>		PHONE <u>304-259-5241</u>
Rep: <u>Stephanie Bond</u>		TOLL FREE
Email Address: <u>sbond@djs.state.wv.us</u>		FAX <u>304-259-4851</u>
Company: <u>PURCHASING DIVISION STATE OF WV</u>		PHONE <u>304-558-2544</u>
Rep: <u>JOHN ABBOTT, SR. BUYER</u>		TOLL FREE
Email Address: <u>JOHN.H.ABBOTT@WV.GOV</u>		FAX <u>304-558-4115</u>
Company: <u>West Virginia Division of Juvenile Services</u>		PHONE <u>304 558 - 9800</u>
Rep: <u>James Gooddard</u>		TOLL FREE
Email Address: <u>jgooddard@djs.state.wv.us</u>		FAX
Company: <u>F. K. Everest</u>		PHONE <u>304-376-9368</u>
Rep: <u>Dave Switzer</u>		TOLL FREE
Email Address: <u>dswitzer@fkeverest</u>		FAX

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FIRM & REPRESENTATIVE NAME	MAILING ADDRESS	TELEPHONE & FAX NUMBERS
Company: <u>DUAL CONST. MANAGEMENT</u>		PHONE <u>304.347.8820</u>
Rep: <u>ERIC COFFEY</u>		TOLL FREE <u>N/A</u>
Email Address: <u>JCARNEY@DUALCONSTRUCTION.COM</u>		FAX <u>304.347.8821</u>
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____
Company: _____		PHONE _____
Rep: _____		TOLL FREE _____
Email Address: _____		FAX _____

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

PRODUCER

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.

COMPANIES AFFORDING COVERAGE

COMPANY

A

COMPANY

B

COMPANY

C

COMPANY

D

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOT WITHSTANDING 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> OWNERS & CONTRACTORS PROI				GENERAL AGGREGATE \$ 2,000,000 PRODUCTS-COMP OP AGG \$ 1,000,000 PERSONAL & AD INJURY \$ 1,000,000 EACH OCCURRENCE \$ 1,000,000 FIRE DAMAGE (A* and Pro) \$ 100,000 MED EXP (Any one person) \$ 5,000
	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS				COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - IN ACCIDENT \$ OTHER THAN AUTO ONLY \$ EACH OCCURRENCE \$ AGGREGATE \$
	EXCESS LIABILITY <input checked="" type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: <input type="checkbox"/> INCL <input type="checkbox"/> EXCL				WFL STATE WFL STATE WFL STATE WFL STATE EL FACT ACCIDENT \$ 500,000 EL DISEASE-EMPLOYEE \$ 500,000 EL DISEASE-EMPLOYEE \$ 500,000
	OTHER				

DESCRIPTION OF OPERATIONS & LOCATIONS / VEHICLES / SPECIAL ITEMS
Construction of the "Rubenstein Center" RJC2014

CERTIFICATE HOLDER
**State of West Virginia
 Purchasing Division
 2019 Washington Street, East
 Charleston, WV 25305**

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPROVE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.
 AUTHORIZED REPRESENTATIVE