



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
 LBS80435

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 ROBERTA WAGNER
 304-558-0067

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

HEALTH AND HUMAN RESOURCES
 BPH - LABORATORY SERVICES

 167-ELEVENTH AVENUE
 SOUTH CHARLESTON, WV
 25303 304-558-3530

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/07/2008				
BID OPENING DATE: 05/08/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		988-63		
<p>***** BID BOND REQUIRED WITH BID SUBMISSION ***** MANDATORY PRE-BID MEETING ON 4/21/2008 AT 10:00 AM AT OFFICE OF LABORATORY SERVICES 167 11TH AVENUE, SOUTH CHARLESTON, WV 25303. NO ONE PERSON MAY REPRESENT MORE THAN ONE COMPANY. *****</p> <p>RENOVATION TO THE METABOLIC SCREENING ROOM</p> <p>RENOVATIONS TO THE METABOLIC SCREEN ROOM OF THE NEWBORN SCREENING SECTION LOCATED AT: OFFICE OF LABORATORY SERVICES 167 11TH AVENUE SOUTH CHARLESTON, WV 25303</p> <p>MANDATORY VENDOR PRE-BID MEETING IS SCHEDULED FOR APRIL 21, 2008 AT 10:00AM IN THE CONFERENCE ROOM OF THE OFFICE OF LABORATORY SERVICES, 167 11TH AVENUE, SOUTH CHARLESTON, WV.</p> <p>NOTICE TO PROCEED: THIS CONTRACT IS TO BE PERFORMED WITHIN 90 CALENDAR DAYS AFTER THE OWNER'S APPROVAL OF THE CONTRACTOR'S SHOP DRAWINGS FOR THIS PROJECT. OWNER'S APPROVAL OF THE SHOP DRAWINGS WILL BE CONSIDERED THE NOTICE TO PROCEED.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE THE BID AND CONTRACT HEREIN.</p> <p>WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER-OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET,SEQ.</p> <p>INQUIRIES: WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH CLOSE OF BUSINESS ON 4/22/2008. QUESTIONS MAY BE SENT VIA USPS, FAX, COURIER OR E-MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. IF POSSIBLE, E-MAIL QUESTIONS ARE PREFERRED. ADDRESS INQUIRIES TO:</p> <p>ROBERTA WAGNER DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311</p> <p>FAX: 304-558-4115 E-MAIL: ROBERTA.A.WAGNER@WV.GOV</p> <p>THE MODEL/BRAND/SPECIFICATIONS NAMED HEREIN ESTABLISH THE ACCEPTABLE LEVEL OF QUALITY ONLY AND ARE NOT INTENDED TO REFLECT A PREFERENCE OR FAVOR ANY PARTICULAR BRAND OR VENDOR. VENDORS WHO ARE BIDDING ALTERNATES SHOULD SO STATE AND INCLUDE PERTINENT</p>						

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<p>LITERATURE AND SPECIFICATIONS. FAILURE TO PROVIDE INFORMATION FOR ANY ALTERNATES MAY BE GROUNDS FOR REJECTION OF THE BID. THE STATE RESERVES THE RIGHT TO WAIVE MINOR IRREGULARITIES IN BIDS OR SPECIFICATIONS IN ACCORDANCE WITH SECTION 148-1-4 (F) OF THE WEST VIRGINIA LEGISLATIVE RULES AND REGULATIONS. EXHIBIT 5</p> <p>ARBITRATION: ANY REFERENCES MADE TO ARBITRATION OR INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED.</p> <p>WORKERS' COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKERS' COMPENSATION IF SUCCESSFUL.</p> <p>ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT OF THIS CONTRACT:</p> <p>(XX) INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>() BUILDERS RISK INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT.</p> <p>(XX) BONDS: FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK</p>						

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				<p>IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A PERFORMANCE AND LABOR & MATERIAL BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCEPCTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.</p> <p>() MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BOND COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR.</p> <p>REV. 11/00</p> <p>EXHIBIT 7</p> <p>DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS</p> <p>IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINUM GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES. IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS.</p> <p>FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE</p>		

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<p>ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE PRODUCTS. IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS.</p> <p>IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL.</p> <p>REV. 3/88</p> <p>EXHIBIT 9</p> <p>NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA</p> <p>THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES:</p> <p>(1) THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE</p>						

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<p>PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED.</p> <p>(2) THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE.</p> <p>(3) ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALL BIDDERS AND SUBMITTED TO THE STATE PURCHASING DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR THE SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE.</p> <p>REV. 11/96</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1</p> <p>NO. 2</p>						

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	NO. 3				
	NO. 4				
	NO. 5				
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>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.</p> <p>.....SIGNATURE</p> <p>.....COMPANY</p> <p>.....DATE</p> <p>REV. 11/96</p> <p>CONTRACTORS LICENSE</p> <p>WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS LICENSE. APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV 25305. TELEPHONE: (304) 558-7890.</p>						

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<p>WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID.</p> <p>BIDDER TO COMPLETE:</p> <p>CONTRACTORS NAME:</p> <p>CONTRACTORS LICENSE NO.:</p> <p>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT</p> <p>APPLICABLE LAW</p> <p>THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULE AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT.</p> <p>ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p>						

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NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
PLEASE NOTE: A CONVENIENCE COPY WOULD BE APPRECIATED.						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:-----RW/FILE 22-----						
REQ. NO.:-----LBS80435-----						
BID OPENING DATE:-----5/8/2008-----						
BID OPENING TIME:-----1:30 PM-----						
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:						

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***** THIS IS THE END OF RFQ LBS80435 ***** TOTAL:						

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PART 1 - Metabolic Screening Room Renovations

1.1 Project Description

- A. Project Summary: Renovations of a single lab room within existing building. Room size is approximately 400 square feet. Work includes, but is not limited to, casework and countertops, flooring, acoustical ceilings, metal studs and gypsum board, electrical and plumbing related to Owner purchased equipment.

Site location name/address: Office of Laboratory Services
167 Eleventh Street
South Charleston, WV 25303

Mandatory Prebid Conference is scheduled on 4/21, 2008 at 10:00 a.m. Meeting will be held at project site office location conference room and a tour of facility will follow as needed.

B. Particular Project Requirements:

1. Existing site conditions and restrictions: Building is currently occupied and will continue to be throughout the project. All work is to be coordinated with Owner/Project Manager
2. Owner has a separate contract for HVAC modifications.
3. Owner-purchased, Owner-installed items: Equipment shown on EQUIP. PLAN (Exhibit A-1.2) (See attached.)
4. Permits and Fees: The Contractor shall secure and pay for the building permit and for all other permits, governmental fees and licenses which are necessary for the proper execution and completion of the work as specified.

- C. Codes: Comply with all applicable codes and regulations of authorities having jurisdiction. Submit copies of inspection reports, notices and similar communications to Owner/Project Manager.

- D. Dimensions: Contractor must verify dimensions indicated on drawings with field dimensions before fabrication or ordering of materials. Do not scale drawings.

- E. Existing Conditions: Contractor is to notify Owner/Project Manager of existing conditions differing from those indicated on the drawings. Do not remove or alter structural components without prior written approval.

F. Coordination Required by Contractor:

1. Coordinate the work of all trades.
2. Verify location of existing conditions.
3. Must also coordinate with the Owner/Provider of special testing equipment that is going to be used in this laboratory space

G. Installation Requirements, General:

1. Inspect substrates and report unsatisfactory conditions in writing.
2. Do not proceed until unsatisfactory conditions have been corrected.

3. Take field measurements prior to fabrication where practical. Form to required shapes and sizes with true edges, lines and angles. Provide inserts and templates as needed for work of other trades.
 4. Install materials in exact accordance with manufacturer's instructions and approved submittals.
 5. Install materials in proper relation with adjacent construction and with proper appearance.
 6. Restore units damaged during installation. Replace units which cannot be restored at no additional expense to the Owner.
- H. Limit use of work as indicated.
- I. Protect building interior and its occupants.
- J. Definitions:
1. Provide: Furnish and install, complete with all necessary accessories, ready for intended use. Pay for all related costs.
 2. Approved: Acceptance of item submitted for approval to the Owner/Project Manager. Not a limitation or release for compliance with the Contract Documents or regulatory requirements.
 3. Match Existing: Match existing as acceptable to the Owner.
- K. Intent: Drawings and specifications are intended to provide the basis for proper completion of the work suitable for the intended use of the Owner. Anything not expressly set forth but which is reasonable implied or necessary for proper performance of the project shall be included.

1.2 ADMINISTRATIVE REQUIREMENTS - GENERAL

A Contractor shall:

1. be responsible for the administrative requirements for the proper coordination and completion of work including the following:
 - a) Supervisory personnel.
 - b) Preconstruction conference.
 - c) Project meetings, minimum of three; distribute minutes.
2. submit progress schedule.
3. submit a schedule of values.
4. submit a schedule of required inspections.
5. submit and post a list of emergency telephone numbers and address for individuals to be contacted in case of emergency.
6. submit record drawings and specifications; to be maintained and annotated by Contractor as work progresses.
7. submit payment request procedures.
8. maintain a clean worksite and protect the work.
9. **complete job within 90 days from receipt of written Notice to Proceed**

1.3 SUBMITTAL PROCEDURES GENERAL

- A. Contractor shall provide submittals to the Owner/Project Manager for each requirement listed below.
1. Product data - 4 copies.
 2. Samples - 2, plus extra samples as required to indicate range of color, finish, and texture to be expected.
 3. Inspection reports - 4 copies.
 4. Warranties - 4 copies.
 5. Closeout submittals - 4 copies.
- B. Contractor shall comply with submittal procedures established by Project Manager. Contractor shall provide required re-submittals, if original submittals are not approved. Contractor shall provide distribution of approved copies including modifications after submittals have been approved.
- C. Contractor shall provide samples and shop drawings specifically for this project. Shop drawings shall include dimensions and details, including adjacent construction and related work. Note any deviations from requirements of the Contract specifications.
- D. Contractor shall provide warranties as specified; warranties shall not limit length of time for remedy of damages Owner may have by legal statute. Contractor, supplier or installer responsible for performance of warranty, shall sign warranties.

1.4 QUALITY CONTROL REQUIREMENTS

- A. Contractor shall comply with governing codes and regulations. Contractor shall provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Contractor shall monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- C. Contractor shall comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- D. Contractor shall monitor fabrication and installation tolerance control of products to produce acceptable Work. Contractor shall not permit tolerances to accumulate and shall comply with manufacturers' tolerances.
- E. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- F. Contract shall perform quality control during installation.

1.5 PRODUCT REQUIREMENTS

- A. Contractor is to provide products from one manufacturer for each type or kind as applicable. Contractor shall provide secondary materials as acceptable to manufacturers of primary materials.
- B. Contractor shall provide products selected or equal as approved by Project Manager. Products submitted for substitution shall be submitted with complete documentation, and include construction costs of substitution including related work.
- C. Request for substitution must be in writing. Conditions for substitution include:
 - 1. An 'or equal' phrase in the specifications.
 - 2. Specified material cannot be coordinated with other work.
 - 3. Specified material is not acceptable to authorities having jurisdiction.
 - 4. Substantial advantage is offered to the Owner in terms of cost, time, or other valuable consideration.

Substitutions shall be submitted prior to award of contract, unless otherwise acceptable. Approval of shop drawings, product data, or samples containing substitutions is not an approval of a substitution unless an item is clearly presented as a substitution at the time of submittal.

1.6 PROJECT ACCEPTANCE

- A. The following are prerequisites to substantial completion. Provide the following:
 - 1. Punch list prepared by Contractor and subcontractors as applicable.
 - 2. Supporting documentation.
 - 3. Warranties.
 - 4. Certifications.
 - 5. Occupancy permit.
 - 6. Start-up and testing of building systems.
 - 7. Change over of locks.
- B. Contractor shall provide the following prerequisites to final acceptance:
 - 1. Final payment request with supporting affidavits.
 - 2. Completed punch list.
- C. Provide a marked-up set of drawings including changes, which occurred during construction.
- D. Provide the following during project closeout:
 - 1. Submission of record documents.
 - 2. Submission of maintenance manuals.
 - 3. Final cleaning and touch-up.

1.7 CUTTING AND PATCHING

- A. Contractor is to provide cutting and patching work to properly complete the project work in complying with project requirements for:
 - 1. Structural work.
 - 2. Mechanical/electrical systems.
 - 3. Visual requirements, including detailing and tolerances.
 - 4. Operational and safety limitations.
 - 5. Fire resistance ratings.
 - 6. Inspection, preparation, and performance.
 - 7. Cleaning.
- B. Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decrease energy performance, increase maintenance, decrease operational life, or decrease safety performance.
- C. Materials shall match existing materials for cutting and patching work with new materials conforming to project requirements.

1.8 INSTALLATION

- A. Inspect conditions prior to work to identify scope and type of work required. Protect adjacent work areas. Notify Owner of work requiring interruption to building services or Owner's operations.
- B. Perform work with workmen skilled in the trades involved.
- C. Cutting: Use cutting tools, not chopping tools. Make neat holes. Minimize damage to adjacent work. Inspect for concealed utilities and structure before cutting.
- D. Patching: Make patches, seams, and joints durable and inconspicuous. Comply with tolerances for new work.
- E. Clean work area and areas affected by cutting and patching operations.

1.9 Invoices, Progress Payments, & Retainage:

- A. The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To" pursuant to the terms of the contract. Progress payments shall be made upon 50% completion of the work and 50% upon Owner's acceptance of the completed work.
 - B. A 10% retainage shall be held until Owner's acceptance of the completed work.
-

PART 2 - SELECTIVE DEMOLITION

2.1 DEMOLITION

- A. Contractor is to perform selective demolition:

1. Selective demolition of two interior partitions, and building components designated to be removed.
2. Protection of portions of building adjacent to or affected by selective demolition. Immediate areas of work will be occupied during selective demolition.
3. Removal of abandoned utilities and wiring systems.
4. Notification to Owner of schedule of shut-off of utilities which serve occupied spaces.
5. Pollution control during selective demolition, including noise control.
6. Removal and legal disposal of materials. No asbestos or hazardous material removal required.

B Contractor shall:

1. Not damage building elements and improvements indicated to remain.
 2. Locate, identify, disconnect, and seal or cap off utilities in buildings to be demolished.
 3. Provide and maintain interior bracing where required.
 4. Restore finishes of patched areas.
-

PART 3 STEEL DOORS AND FRAMES

3.1 Material manufacturers: Amweld Building Products, Ceko Door Products, Curries Co., Mesker Door, Steelcraft Manufacturing, or approved equal.

A Steel Doors:

1. Door Type: Standard steel door with hollow or composite construction.
2. Interior Door: ANSI/SDI-100, Grade II, heavy-duty, minimum 18 gauge (.0358 inch) cold-rolled steel, 1-3/4 inches thick.
3. Accessories: Glazing stops.
4. Finish: Factory finished.

B. Steel Interior Frames:

1. Material: Sheet steel.
2. Corners: Mitered or coped.
3. Type: Knockdown.
4. Thickness: 16 gauge (.0598 inch).
5. Accessories: Door silencers. Finish: Factory primed and field painted.

3.2 INSTALLATION

- A. Contractor shall provide door and fabricate work to be rigid, neat and free from seams, defects, dents, warp, buckle, and exposed fasteners. Install door and frame shall be in compliance with SDI-100, NFPA 80.

- B Hardware: Prepare door and frame to receive hardware. Provide for 3 silencers.
 - C Shop Finish: Clean, treat and prime paint all work with rust-inhibiting primer.
-

PART 4 DOOR HARDWARE

4.1 Material Manufacturers: Corbin Russwin Architectural Hardware, Sargent Manufacturing, Schlage Lock Co., Yale Locks and Hardware, or equal.

A. Door Hardware:

1. Quality Level: Heavy duty commercial.
2. Locksets and Latchsets: Cylinder type.
3. Lock Cylinders: Interchangeable.
4. Keying: Owner's requirements.
5. Keying: Match existing keying and key control system.
6. Hinges and Butts: Full-mortise type with nonremovable pins.
7. Closers: High frequency.
8. Hardware Finishes: Satin chrome finish on exposed surfaces.

B. Auxiliary Materials:

1. Door Trim Units: 5" X 20" Vision Panel.
 2. Stops and overhead door holders.
 3. Soundstripping.
 4. Card-operated opening devices.
-

PART 5 GYPSUM BOARD ASSEMBLIES - GENERAL

5.1 Material manufacturers: Georgia-Pacific Corp., LaFarge North America, National Gypsum Co., United States Gypsum Co. Armstrong World Industries, Chicago Metallic, or approved equal.

A. Gypsum Wallboard, Steel Framing, Grid and Suspension

1. Gypsum Wallboard for Tape and Joint Compound Finish: ASTM C 36, regular, moisture-resistant, foil-backed, and fire-rated types as required:
 - a. Typical Thickness: 5/8 inch.
2. Joint Treatment: ASTM C 475 and ASTM C 840, 3-coat system, paper or fiber-glass tape.

B. Manufacturers of Steel Framing: Dale Incor, Dietrich Industries, Marino Ware, National Gypsum Co., Unimast, or approved equal.

1. Steel Studs and Runners: ASTM C 645 [ASTM A 653, G60, hot-dip galvanized] [Manufacturer's standard corrosion-resistant zinc] coating.
 - a. Thickness: 20 gauge (.0329 inch).
 - b. Typical Depth: 3-5/8 inch.
 - 1) Auxiliary Materials:

- a) Gypsum board screws, ASTM C 1002.
- b) Fastening adhesive.

5.2 INSTALLATION

A Contractor shall provide:

1 gypsum board assemblies:

- a. Interior walls with tape and joint compound finish. Install gypsum board for tape and 3-coat joint compound finish in compliance with ASTM C 840 and GA 216, Recommended Specifications for the Application and Finishing of Gypsum Board. Install gypsum board assemblies true, plumb, level and in proper relation to adjacent surfaces.
 - b. Install boards vertically. Do not allow butt-to-butt joints and joints that do not fall over framing members.
 - 1) Where new partitions meet existing construction, remove existing cornerbeads to provide a smooth transition. Tolerances: Not more than 1/16-inch difference in true plane at joints between adjacent boards before finishing. After finishing, joints shall be not be visible. Not more than 1/8 inch in 10 feet deviation from true plane, plumb, level and proper relation to adjacent surfaces in finished work.
 - c. Provide acoustical sealant at both faces at top and bottom runner tracks, wall perimeters, openings, expansion and control joints.
 - d. Repair surface defects. Leave ready for finish painting or wall treatment. Remodeling at existing gypsum board construction
- #### 2 Steel framing systems to receive gypsum board.
- a. Steel Framing: Install steel framing in compliance with ASTM C 754. Install with tolerances necessary to produce substrate for gypsum board assemblies with tolerances specified. Include blocking for items such as casework and similar items.

PART 6 ACOUSTICAL PANEL CEILINGS

6.1 Material Manufacturer: Armstrong "Auratone" (to match existing)

A Acoustical Panel Ceiling and Exposed Metal Suspension System

1 Mineral Base Panels, Nodular, Cast or Molded Type:

- a. Size: 24 by 24 inches by 3/4 inch.
- b. Direct-Hung Suspension Systems, Non-Fire-Resistance Rated:
- c. Type: Wide-face, single-web steel, ASTM C 635.
- d. Classification: Intermediate duty.
- e. Suspension System Accessories: Attachment devices and hangers, ASTM C 635.
- f. Cap Material: Painted steel finish.

g. Auxiliary Materials:

- 1) Edge molding and trim.

6.2 INSTALLATION

- 1 Contractor shall install materials and suspension systems in accordance with manufacturer's instructions and recommendations, and ASTM C 636. Coordinate installation with location of mechanical and electrical work to ensure proper locations and anchorage.
 - 2 Level ceiling to within 1/8" in 10' in both directions. Scribe and cut panels to fit accurately. Measure and layout to avoid less than half panel units.
 - 3 Adjust, clean, and touch-up all system components.
 - 4 Extra Stock: Contractor shall submit extra stock equal to 2% of amount installed.
-

PART 7 RESILIENT BASE AND ACCESSORIES

7.1 Manufacturers: AFCO Rubber Corp., Johnsonite, Roppe, VPI Floor Products, or approved equal.

- A Resilient Wall Base: ASTM F 1861
1. Type TS (rubber, vulcanized thermoset).
 2. Group: I (solid, homogeneous)
 3. Style: Cove.
 4. Thickness: 0.125 inch
 5. Height: 4 inches

7.2 INSTALLATION

1. Contractor shall provide resilient wall base and accessories and install in compliance with manufacturer's instructions and recommendations. Install in proper relation to adjacent work.
 2. Install base and accessories to minimize joints. Install base with joints as far from corners as practical.
 3. Clean, polish, and protect.
 4. Contractor shall submit extra stock (to the Project Manager) equal to 2% of total used.
-

PART 8 RESINOUS FLOORING

8.1 Products: Crossfield Products Corp., Dex-O-Tex., Dur-A-Flex Inc., General Polymers Corporation, a division of the Sherwin-Williams Company, Key Resin Company, Key Quartz B-125-HP, Polymerica Incorporated

- Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, through one source from a single manufacturer. Provide secondary materials, including patching and fill

material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.

- Installer Qualifications: An experienced installer who employs only persons trained and approved by resinous flooring manufacturer for applying resinous flooring systems indicated.
- A. Resinous Floor System Characteristics:
- 1 Color and Pattern: As selected by Project Manager from manufacturer's full range.
 - 2 Wearing Surface: Textured for slip resistance.
 - 3 Overall System Thickness: 1/8 inch.
- B. System Components: Manufacturer's standard components that are compatible with each other and as follows:
- 1) Body Coat:
 - a) Resin: Epoxy.
 - b) Formulation Description: 100 percent solids.
 - c) Application Method: Self-leveling slurry with broadcast aggregates.
 - i. Thickness of Coats: 1/16 inch.
 - ii. Number of Coats: Two.
 - d) Aggregates: Colored quartz (ceramic-coated silica).
 - 2) Primer: Type recommended by manufacturer for substrate and body coat(s) indicated.
 - 3) Waterproofing Membrane: Type recommended by manufacturer for substrate and primer and body coat(s) indicated. Key 580 Flexible Epoxy.
 - a) Formulation Description: 100 percent solids.
 - 4) Reinforcing Membrane: Flexible resin formulation that is recommended by manufacturer for substrate and primer and body coat(s) indicated and that reduces substrate cracks from reflecting through resinous flooring.
 - a) Provide fiberglass scrim adhered to surface of reinforcing membrane.
 - 5) Topcoat: Chemical-resistant sealing or finish coat(s).
 - a) Resin: Epoxy.
 - b) Formulation Description: 100 percent solids (unless Key 450 urethane is used for final topcoat).
 - c) Type: Clear.
 - d) Number of Coats: Two.

- C System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
- 1 Compressive Strength: 11,500 psi per ASTM C 579.
 - 2 Tensile Strength: 2,400 psi per ASTM C 307.
 - 3 Flexural Modulus of Elasticity: 4,300 psi per ASTM C 580.
 - 4 Water Absorption: nil, per ASTM D-570.
 - 5 Coefficient of Thermal Expansion: 22×10^{-6} per ASTM C 531.
 - 6 Impact Resistance: No chipping, cracking, or delamination and not more than 1/16-inch permanent indentation per MIL-D-3134 (withstands 16 ft. per pounds).
 - 7 Resistance to Elevated Temperature: No slip or flow of more than 1/16 inch per MIL-D-3134. No slip or flow at required temperature of 158 degrees F.
 - 8 Abrasion Resistance: 32mg maximum weight loss per ASTM D 4060.
 - 9 Flammability: Self-extinguishing per ASTM D 635.
 - 10 Hardness: 80-84, Shore D per ASTM D 2240.
 - 11 Bond Strength: 300 psi (100 percent concrete failure) per ACI Comm #403, Bulletin 59-43.
- D System Chemical Resistance: Test specimens of cured resinous flooring system are unaffected when tested according to resistant to splash/ spill exposure in the following reagents for not less than 7 days:
- 1) Owner to confirm chemicals used.

8.2 ACCESSORY MATERIALS

- A Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.
- B Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service and joint condition indicated.

8.3 PROJECT CONDITIONS

- A Environmental Limitations: Contractor is to comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
- B Revise first paragraph below if specific foot-candle level is required.
- C Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- D. Close spaces to traffic during resinous flooring application and for not less than 48 hours after application, unless manufacturer recommends a longer period. Allow flooring system to completely cure (5 – 7 days at 70 degrees F) before cleaning with water or other liquid cleaners.

8.4 PREPARATION

- A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry, and neutral Ph substrate for resinous flooring application.

- B Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
- 1 Roughen concrete substrates as follows:
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
 - b. Comply with ASTM C 811 requirements, unless manufacturer's written instructions are more stringent.
 - 2 Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.
 3. Verify that concrete substrates are dry.
 - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
 - b. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing. If moisture vapor rate remains greater than 3#, apply manufacturers treatment to reduce moisture vapor to acceptable level.
 - 4 Verify that concrete substrates have neutral Ph and that resinous flooring will adhere to them. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.
- D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
- E Treat control joints and other nonmoving substrate cracks to reduce possibility of cracks from reflecting through resinous flooring according to manufacturer's written recommendations. Note: Crack insulation membranes are not a 100 percent guarantee to prevent cracking.

8.5 APPLICATION

- A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
 2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations. For this type of joint, specify urethane sealant, not epoxy joint filler.

- a. Apply joint sealant to comply with manufacturer's written recommendations.
 - B Apply primer over prepared substrate at manufacturer's recommended spreading rate.
 - 1 Apply waterproofing membrane, where indicated, in manufacturer's recommended thickness.
 - a. Apply waterproofing membrane to integral cove base substrates.
 2. Apply reinforcing membrane to entire substrate surface.
 - 3 Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
 - 4 Apply self-leveling slurry body coat(s) in thickness indicated for flooring system.
 - a. Broadcast aggregates and, after resin is cured, remove excess aggregates to provide surface texture indicated.
 5. Apply grout coat, of type recommended by resinous flooring manufacturer to fill voids in surface of final body coat and to produce wearing surface indicated.
 - 6 Apply topcoat(s) in number of coats indicated for flooring system and at spreading rates recommended in writing by manufacturer.
-

PART 9 PAINTING

9.1 Manufacturers of Regular Paints: ICI Devoe Coatings, Benjamin Moore, Sherwin Williams or approved equal.

A. INSTALLATION

1. Contractor shall provide Project Manager with manufacturer's full range of color and finish options for selection of color and finishes for selection and approval.
2. Contractor shall prepare or perform the following:
 - a. Painting and surface preparation for interior unfinished surfaces.
 - b. Repainting and surface preparation at areas of remodeling Inspect surfaces, report unsatisfactory conditions in writing; beginning work means acceptance of substrate.
 - c. Contractor shall comply with manufacturer's instructions and recommendations for preparation, priming and coating work. Coordinate with work of other sections.
 - d. At existing areas to be repainted, remove blistered or peeling paint to sound substrates. Remove chalk deposits and mildew and wash all surfaces with mild detergent. Perform related minor preparation including caulk and glazing compounds. Spot prime bare areas before priming and painting as specified.
 - e. Match approved color and texture. Re-coat or remove and replace work which does not match or shows loss of adhesion. Clean up, touch up and protect work.

B PAINT SCHEDULE

- 1 Gypsum Drywall Walls:
 - a Gloss: Semi
 - b System: 2 coats latex finish
 - 2 Ferrous Metals:
 - a Gloss: Semi
 - b System: 2 coats latex enamel
-

PART 10 LABORATORY CASEWORK

10 1 Materials: Laminate casework and countertops designed and constructed for heavy usage. See Exhibits A-1.1 and A-1.2 (Floor Plan and Equipment Schedule) and Exhibit A-2.1 (Elevations of Laboratory Casework)

10 1.1 Features:

1. Countertop Material shall be acid resistant to anticipated exposure.
2. Drawers shall be constructed for heavy usage and easily operation.
3. All exterior surfaces shall be sealed/finished to allow easy cleaning of surfaces.
4. Countertop shall support laboratory equipment without distortion of casework.

A Contractor shall provide laboratory casework and countertops.

B Contractor Submittals

- 1 Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- 2 Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- 3 Samples: Submit sample of each material specified indicating visual characteristics and finish.
4. Warranty: Submit manufacturer's standard warranty. Include labor and materials to repair or replace defective materials.
- 5 Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, including operating instructions, list of spare parts and maintenance schedule.

10.2 INSTALLATION

- A. Contractor shall install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- B. Restore damaged finishes and test for proper operation. Clean and protect work from damage.

DRAWINGS

Division	Title	Pages
A-1.1	Floor Plan	1
A-1.2	Equipment Plan	1
A-2.1	Elevation	1
A-3.1	Reflected Ceiling Plan	1
PO.1	General Sanitary Notes	1
PO.2	General Domestic Water Notes	1
PO.3	Lavatory / Sink Trap	1
PO.4	Plumbing Fixture Schedule	1
P1.1	Plumbing Plan	1
MO.1	General Mechanical Notes (under separate contract)	1
MO.2	Diffuser & Grille Schedule (under separate contract)	1
M1.1	Mechanical – Demolition Plan NIC (under separate contract)	1
M2.1	Mechanical – HVAC Plan NIC (under separate contract)	1
EO.1	General Electrical Notes	1
EO.2	Electrical Symbols Legend	1
EO.3	Electrical Riser Schematic	1
EO.4	Panel "A"	1
E1.1	Electrical – Demolition	1
E2.1	Electrical – Lighting Plan	1
E3.1	Electrical – Power Plan	1
END OF DRAWINGS		

The above drawings were purchased by the Owner to specify the scope of work to be performed by the Contractor for the Owner - the West Virginia Department of Health and Human Resources, Bureau of Public Health, Office of Laboratory Services.

The Owner/Project Manager will respond to all questions, comments, clarifications, or discussion related to the services specified herein.

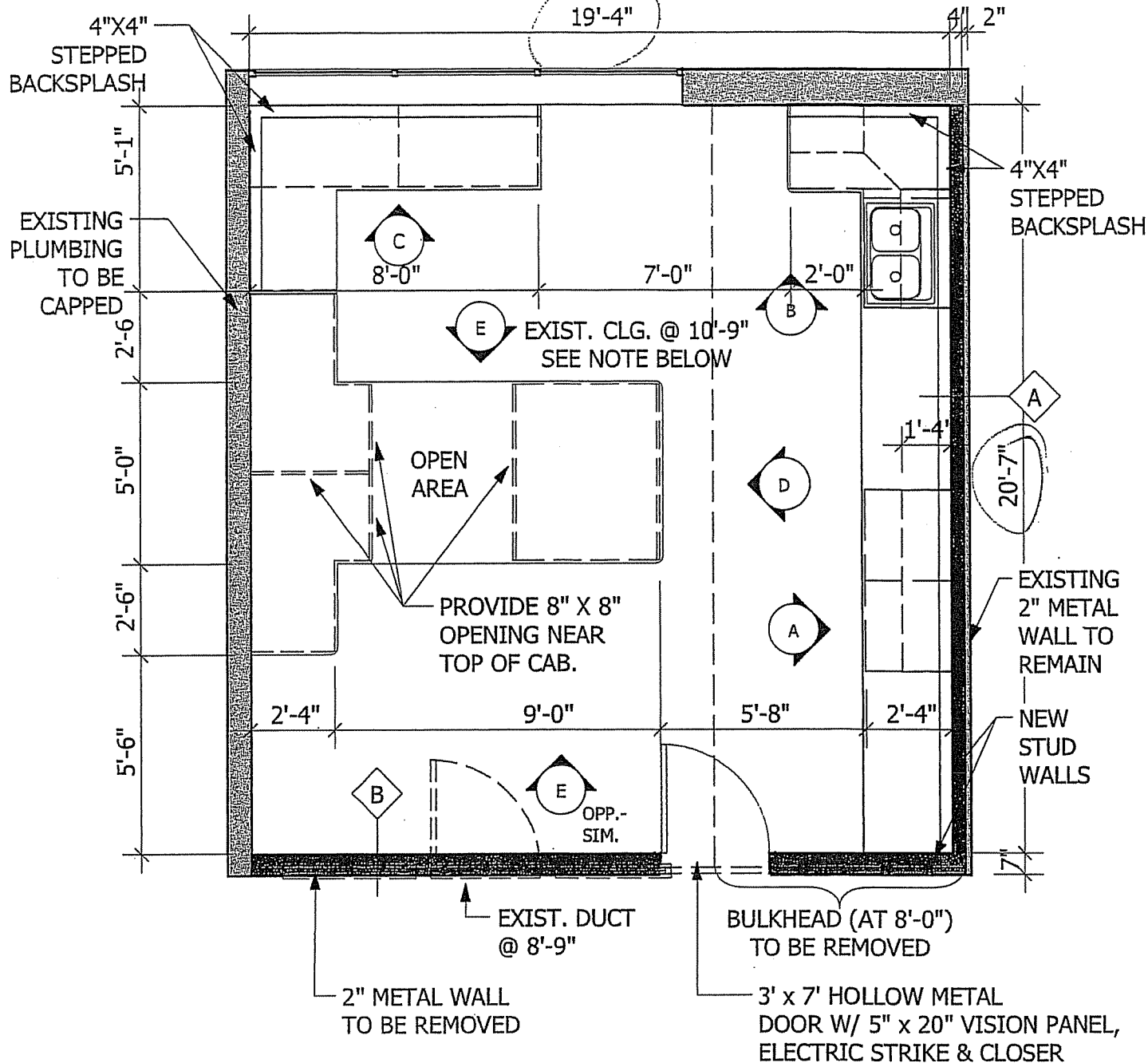
BID SHEET

Vendor shall submit a LUMP SUM BID QUOTATION for this Project: \$ _____

Wage Rates: The successful vendor shall pay the higher of the US Department of Labor minimum wage rates as established for Kanawha County pursuant to state West Virginia Code 21-5-1, et, seq.

Payments will be made in accordance to Part 1, Section 1.9.

By signing and submitting your bid proposal, you agree that you have read and understand the scope of work and all duties to be completed and that all terms and conditions are understood and have been duly accepted. Due to the specialty work to be done under this project, work must be completed within 90 days of written notice to proceed to ensure timely completion of other related projects surrounding this laboratory room renovation.



NOTES:

1. PROVIDE RUBBER BASE AT ALL EXPOSED SIDES OF CABINERY & GYPSUM BD.

2. NEW ACOUSTICAL CEILING TILE @ 8'-8" AFF. HIGH CLG. TO REMAIN

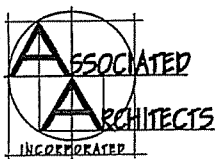
PARTITION DETAILS:

A. 3 5/8" METAL STUDS @ 16" C/C W/ 5/8" GYPSUM BD. ON FINISHED SIDE

B. 6" METAL STUDS @ 16" C/C W/ 5/8" GYPSUM BD. BOTH SIDES

STUD HEIGHT TO MATCH HEIGHT OF EXIST. METAL WALLS

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 Charleston, WV 25302
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DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB

SOUTH CHARLESTON,

WEST VIRGINIA

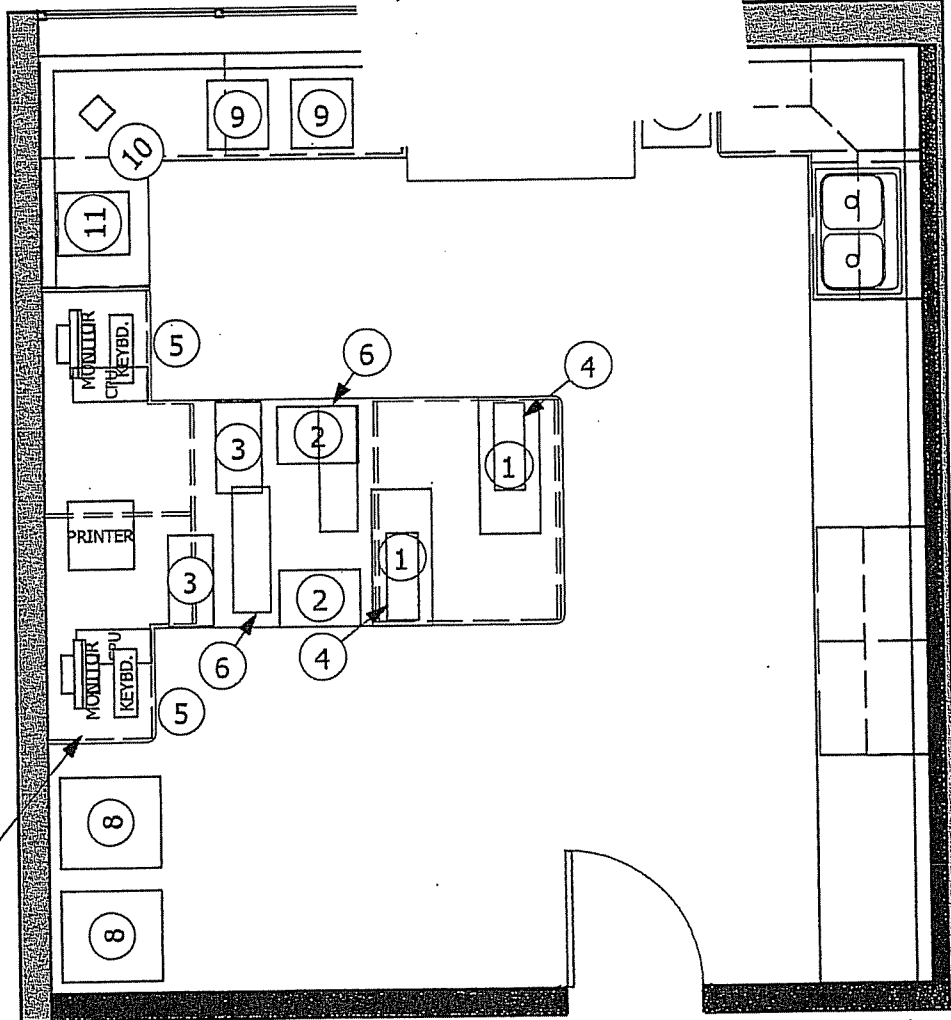
DATE:
 1/21/08

FLOOR PLAN

A-1.1

Exhibit
"A" ~~II~~

JOE THROUGH
OF GLASS



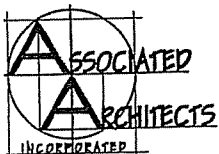
ARGON TANKS-
SMALL TANKS
UNDER BENCH

EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	REMARKS
1	QUATTRO MICRO MSMS	254 LBS.
2	CTC PAL 2227C SAMPLE MANAGER	18 LBS. (W/OUT ACCESSORIES)
3	LC PUMP 1525MICRO BINARY PUMP W/ DEGASSER	
4	ROUGHING PUMP	
5	CPU, MONITOR, KEYBOARD, MOUSEPAD (OPT. PRINTER)	110 LBS.
6	UPS - UNINTERRUPTIBLE POWER SUPPLY (3600va)	
7	ARGON TANK	
8	PEAK GAS GENERATOR (NITROGEN) NM30LA	250 LBS.
9	(2) - THERMO - 3 PLATE INCUBATOR/ SHAKER 60deg & 37deg	33 LBS. Each
10	ABGENE PLATE SEALER	8 LBS.
11	DBS PUNCHER	53 LBS.
12	MS-27553 HI-VELOCITY DRYER ON "APOLLO" STAND	

NOTES: 1) INFORMATION ABOVE PROVIDED BY DHHR. FOR FURTHER DETAILS, REFER TO DHHR'S "SITE SPECIFICATIONS DRAFT" AND DETAIL SHEETS.

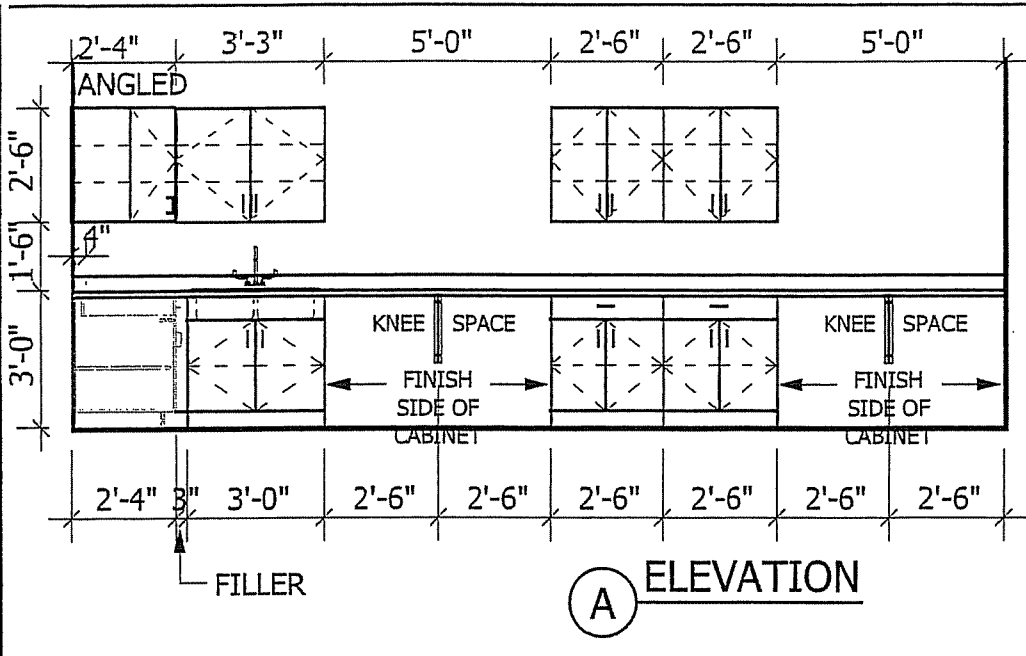
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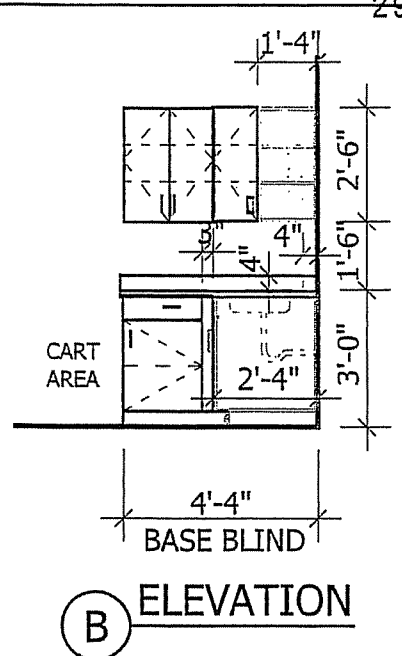
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DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
SOUTH CHARLESTON, WEST VIRGINIA

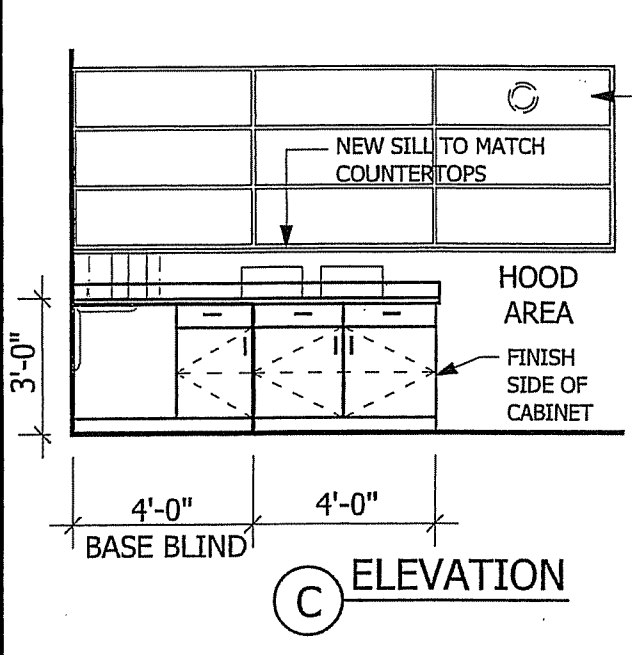
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EQUIP. PLAN
A-1.2



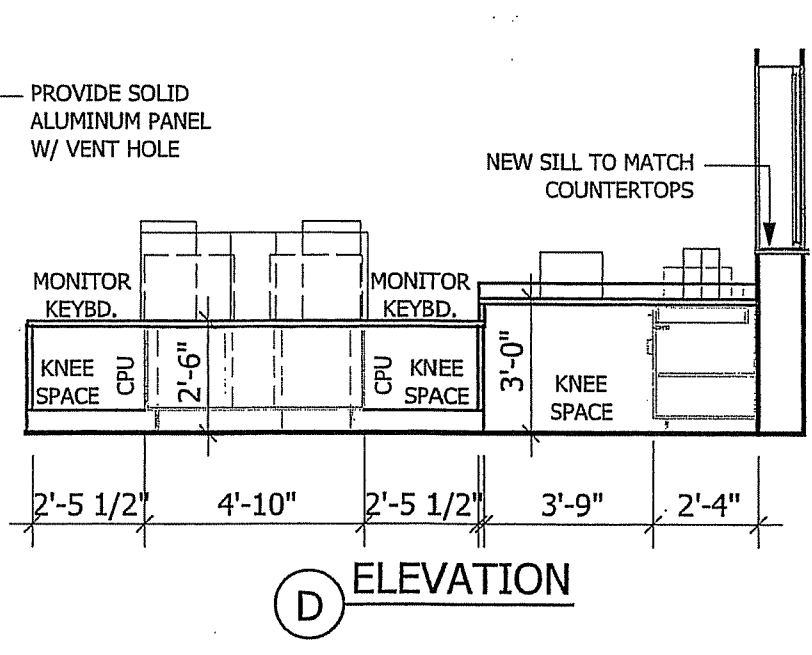
(A) ELEVATION



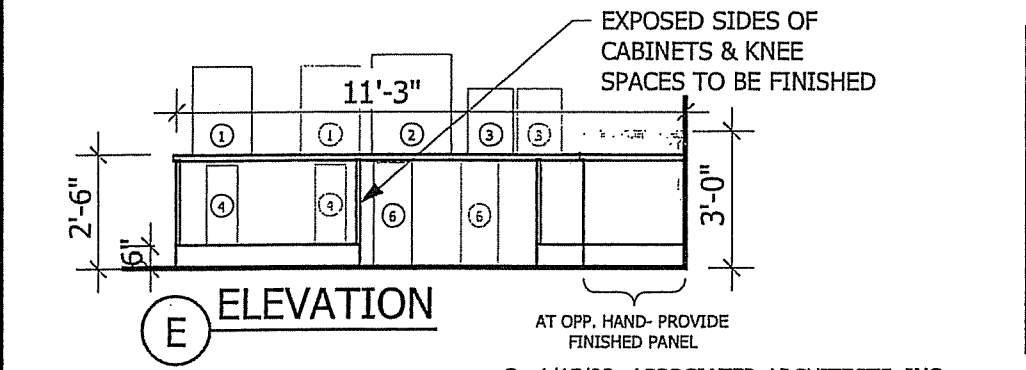
(B) ELEVATION



(C) ELEVATION



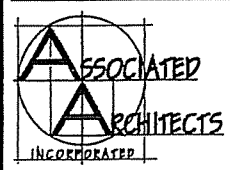
(D) ELEVATION



(E) ELEVATION

Notes:
 1. Finish All-Exposed Sides Of Cabinets.
 2. Provide Adequate Bracing For Weight Of Equipment (refer To DHHR's Documents)

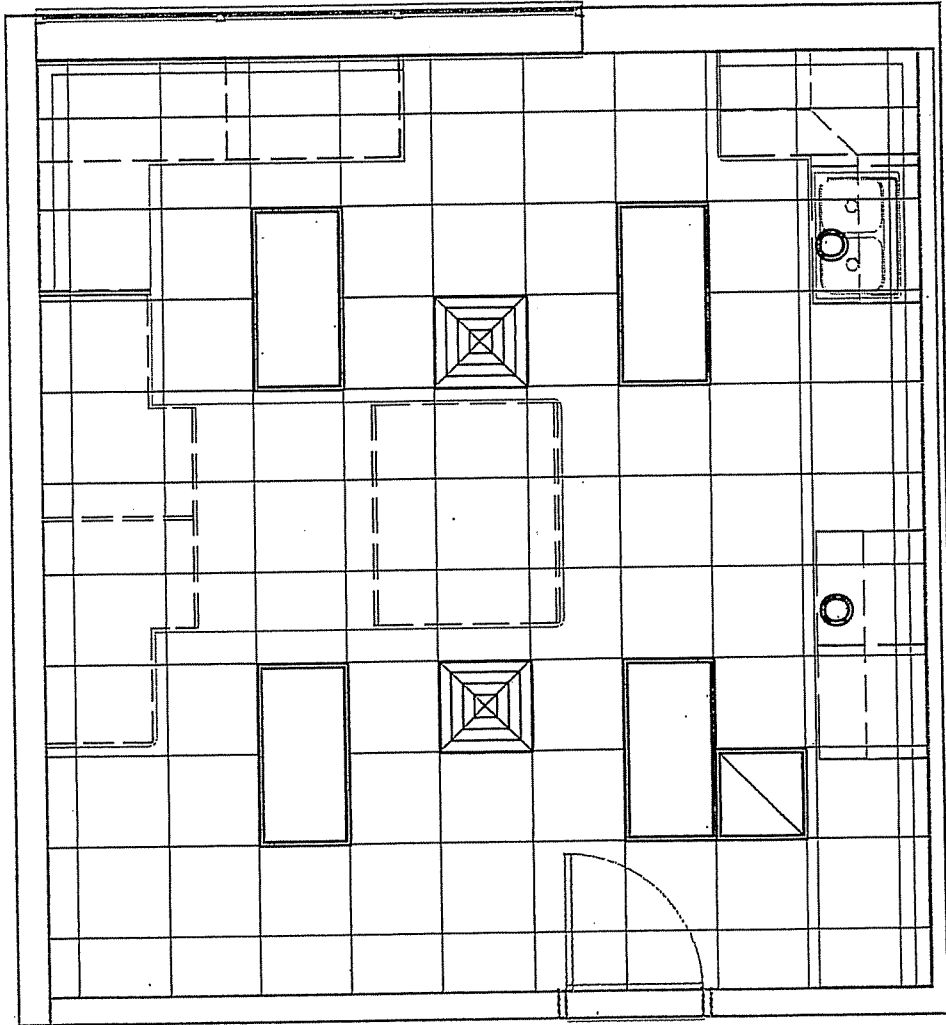
AT OPP. HAND- PROVIDE FINISHED PANEL
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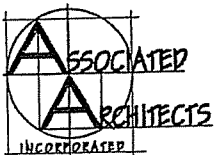
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DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON,
 WEST VIRGINIA

DATE
 1/21/08
 ELEVATION
A-2.1



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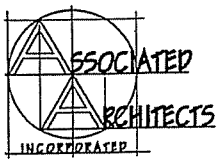
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08
 CEILING PLAN
A-3.1

GENERAL SANITARY NOTES:

1. COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING MINIMUM WORKING PRESSURE, UNLESS OTHERWISE INDICATED: SOIL, WASTE, AND VENT PIPING: 10-FOOT HEAD OF WATER.
2. SUBMIT PRODUCT DATA: FOR PIPE, TUBE, FITTINGS, AND COUPLINGS, INDICATING LOCATION AND USE (ABOVE GROUND, UNDERGROUND, PLENUM AREA, ETC.).
3. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
4. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS: ASTM A 888 OR CISPI 301.
5. SHIELDED COUPLINGS: ASTM C 1277 ASSEMBLY OF METAL SHIELD OR HOUSING, CORROSION-RESISTANT FASTENERS, AND RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP. STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS: CISPI 310, WITH STAINLESS-STEEL CORRUGATED SHIELD; STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE.
6. CONCEALED ABOVE GROUND, SOIL AND WASTE PIPING NPS 4 AND SMALLER SHALL BE ANY OF THE FOLLOWING:
 - a) HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS; AND HUBLESS-COUPLING JOINTS.
 - b) COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.
7. ABOVEGROUND, VENT PIPING NPS 4 AND SMALLER (6" ABOVE FIXTURE RIM) SHALL BE ANY OF THE FOLLOWING:
 - a) SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
 - b) HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; STANDARD, SHIELDED, STAINLESS-STEEL COUPLINGS; AND HUBLESS-COUPLING JOINTS.
 - c) COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS. OPTION FOR VENT PIPING, NPS 2-1/2 AND NPS 3-1/2: HARD COPPER TUBE, TYPE M (TYPE C); COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
8. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
9. JOIN HUBLESS CAST-IRON SOIL PIPING ACCORDING TO CISPI 310 AND CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" FOR HUBLESS-COUPLING JOINTS.
10. DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.
11. CONNECT SOIL AND WASTE PIPING TO EXTERIOR SANITARY SEWERAGE PIPING. USE TRANSITION FITTING TO JOIN DISSIMILAR PIPING MATERIALS.
12. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION. ROUGHING-IN INSPECTION:
 - a) ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
 - b) FINAL INSPECTION: ARRANGE FOR FINAL INSPECTION BY AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
 - c) REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
13. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION. TEST SANITARY DRAINAGE AND VENT PIPING ACCORDING TO PROCEDURES OF AUTHORITIES HAVING JURISDICTION.
14. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTION THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

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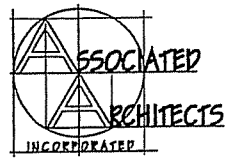
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08
 FLOOR PLAN
 PO.1

GENERAL DOMESTIC WATER NOTES:

1. PROVIDE COMPONENTS AND INSTALLATION CAPABLE OF PRODUCING DOMESTIC WATER PIPING SYSTEMS WITH 125 PSIG , UNLESS OTHERWISE INDICATED. PRODUCT SUBMITTALS:
 - a) PRODUCT DATA: FOR PIPE, TUBE, FITTINGS AND COUPLINGS.
 - b) FIELD QUALITY-CONTROL TEST REPORTS.
2. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
3. TRANSITION COUPLINGS FOR ABOVEGROUND PRESSURE PIPING: COUPLING OR OTHER MANUFACTURED FITTING THE SAME SIZE AS, WITH PRESSURE RATING AT LEAST EQUAL TO AND ENDS COMPATIBLE WITH, PIPING TO BE JOINED.
4. COPPER TUBE AND FITTINGS
 - a) HARD COPPER TUBE: ASTM B 88, TYPES L AND M (ASTM B 88M, TYPES B AND C), WATER TUBE, DRAWN TEMPER.
 - b) COPPER PRESSURE FITTINGS: ASME B16.18, CAST-COPPER-ALLOY OR ASME B16.22, WROUGHT-COPPER, SOLDER-JOINT FITTINGS.
 - c) COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.
5. TRANSITION AND SPECIAL FITTINGS WITH PRESSURE RATINGS AT LEAST EQUAL TO PIPING RATING MAY BE USED IN APPLICATIONS BELOW, UNLESS OTHERWISE INDICATED. FLANGES MAY BE USED ON ABOVEGROUND PIPING, UNLESS OTHERWISE INDICATED.
6. SOLDERED JOINTS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER; AND ASTM B 828 PROCEDURE, UNLESS OTHERWISE INDICATED.
7. INSPECT DOMESTIC WATER PIPING AS FOLLOWS:
 - a) DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
 - b) DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION.
 - c) ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
 - d) FINAL INSPECTION: ARRANGE FINAL INSPECTION FOR AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
8. REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
 - a) REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.
9. TEST DOMESTIC WATER PIPING AS FOLLOWS:
 - a) FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
 - b) TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
10. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
11. PERFORM THE FOLLOWING ADJUSTMENTS BEFORE OPERATION:
 - a) CLOSE DRAIN VALVES, HYDRANTS, AND HOSE BIBBS.
 - b) OPEN SHUTOFF VALVES TO FULLY OPEN POSITION.
 - c) OPEN THROTTLING VALVES TO PROPER SETTING.
 - d) ADJUST CALIBRATED BALANCING VALVES TO FLOWS INDICATED.
 - e) REMOVE PLUGS USED DURING TESTING OF PIPING AND PLUGS USED FOR TEMPORARY SEALING OF PIPING DURING INSTALLATION.
 - f) REMOVE AND CLEAN STRAINER SCREENS. CLOSE DRAIN VALVES AND REPLACE DRAIN PLUGS.
 - g) REMOVE FILTER CARTRIDGES FROM HOUSINGS AND VERIFY THAT CARTRIDGES ARE AS SPECIFIED FOR APPLICATION WHERE USED AND ARE CLEAN AND READY FOR USE.
 - h) CHECK PLUMBING SPECIALTIES AND VERIFY PROPER SETTINGS, ADJUSTMENTS, AND OPERATION.
12. INSULATE ALL HOT AND COLD WATER LINES WITH INSULATION HAVING AN INSULATION VALUE EQUAL TO OR GREATER THAN THE REQUIREMENTS SET FORTH IN THE INTERNATIONAL ENERGY CODE.
13. NEW OR REPAIRED POTABLE WATER SYSTEMS ("ON SITE" OR "IN PLANT") SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER ANWA C651 OR ANWA C652, OR AS DESCRIBED BELOW.
 - a) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT AT THE POINTS OF OUTLET.
 - b) THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR THREE (3) HOURS.
 - c) THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT THE CONTAMINATION REMAINS PRESENT IN THE SYSTEM.

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DHHR MEDICAL LAB - RENOVATIONS OF

METABOLIC SCREENING LAB

SOUTH CHARLESTON, WEST VIRGINIA

DATE:
1/21/08

FLOOR PLAN
PO.2

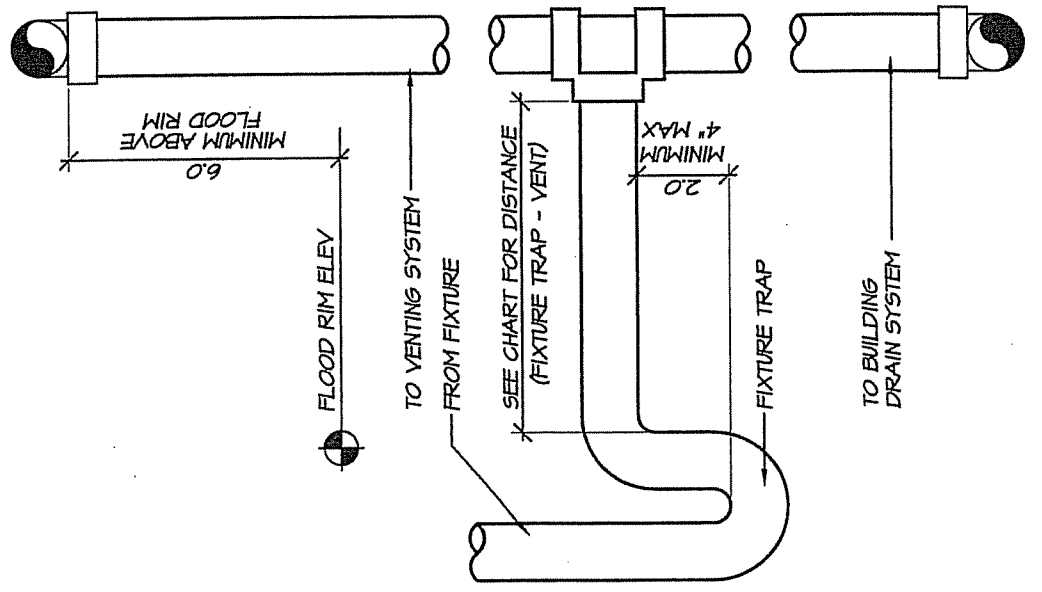
MINIMUM CONNECTION SIZE

FIXTURE TYPE	MIN SUPPLY SIZE	MIN TRAP SIZE
DRINKING FOUNTAIN	3/8"	1 1/4"
DISHWASHING MACHINE	1/2" (WITH BFP)	1 1/2"
KITCHEN SINK (DOMESTIC)	1/2"	2"
LAVATORY	3/8"	1 1/2"
SHOWER	1/2"	1 1/2"
SINK (SERVICE)	1/2"	2"
URINAL	3/4"	FIXTURE OUTLET SIZE
WATER CLOSET (FLOSHOMETER TANK)	3/8"	FIXTURE OUTLET SIZE
WATER CLOSET (FLOSHOMETE VALVE)	1"	FIXTURE OUTLET SIZE

FIXTURE TRAP - VENT DISTANCE

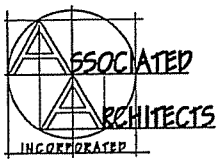
TRAP SIZE (in)	FIXTURE DRAIN SIZE (in)	SLOPE (in/ft)	MAXIMUM DISTANCE FROM TRAP (ft)
1 1/4	1 1/4	1/4	3 1/2
1 1/4	1 1/2	1/4	5
1 1/2	1 1/2	1/4	5
1 1/2	2	1/4	6
2	2	1/4	6
3	3	1/8	10
4	4	1/8	12

MINIMUM DISTANCE: 0"



LAVATORY/SINK TRAP
SCALE: 3" = 1'-0"

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DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08
FLOOR PLAN
P0.3

PLUMBING FIXTURE SCHEDULE

SK-1	KITCHEN SINK	DROP-IN	STAINLESS STEEL
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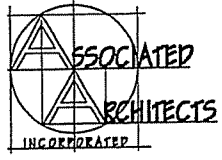
SPECIFICATION:

**** SK-1**
FIXTURE: KOHLER TOCCATA - 33"x22"x1.50"d, 3 HOLE FAUCET PUNCHING, EQUAL-SIZED DOUBLE BASINS
FAUCET: ZURN Z831B4 - WIDESPREAD FAUCET, 5.375" GOOSNECK SPOUT WITH 4" WRIST BLADE HANDLES (4" CENTERSET).
DRAIN: KOHLER - STAINLESS STEEL SINK STRAINER, EACH BASIN
P-TRAP: KOHLER K-9000 - CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1.50"x1.50" WITH CLEANOUT PLUG
SUP LINE: KOHLER - STANDARD ANGLE STOPS WITH FLEXIBLE HOSES

SYMBOLS LEGEND

-----	DOM COLD WATER	LABEL: POT CW
.....	DOM HOT WATER SUPPLY	LABEL: POT HWS
-----	DOM HOT WATER RETURN	LABEL: POT HWR
-----	STORM	LABEL: STORM
-----	SANITARY	LABEL: SANITARY
-----	SANITARY VENT	LABEL: SAN VENT
-----	HOT WATER SUPPLY	LABEL: HWS
-----	HOT WATER RETURN	LABEL: HWR
α	PIPE TURNED UP	
β	PIPE TURNED DOWN	
T	PIPE TEE	
E	90 DEG ELBOW	
45	45 DEG ELBOW	
BV T	BALL VALVE	
CV N	CHECK VALVE	
PTV T	PRESSURE/TEMPERATURE RELIEF VALVE	
PRV T	PRESSURE REDUCING VALVE	
W	WYE FITTING	
CO α	FLOOR CLEANOUT	
CO β	CLEAN OUT (CONCEALED & ACCESSIBLE SPACE)	

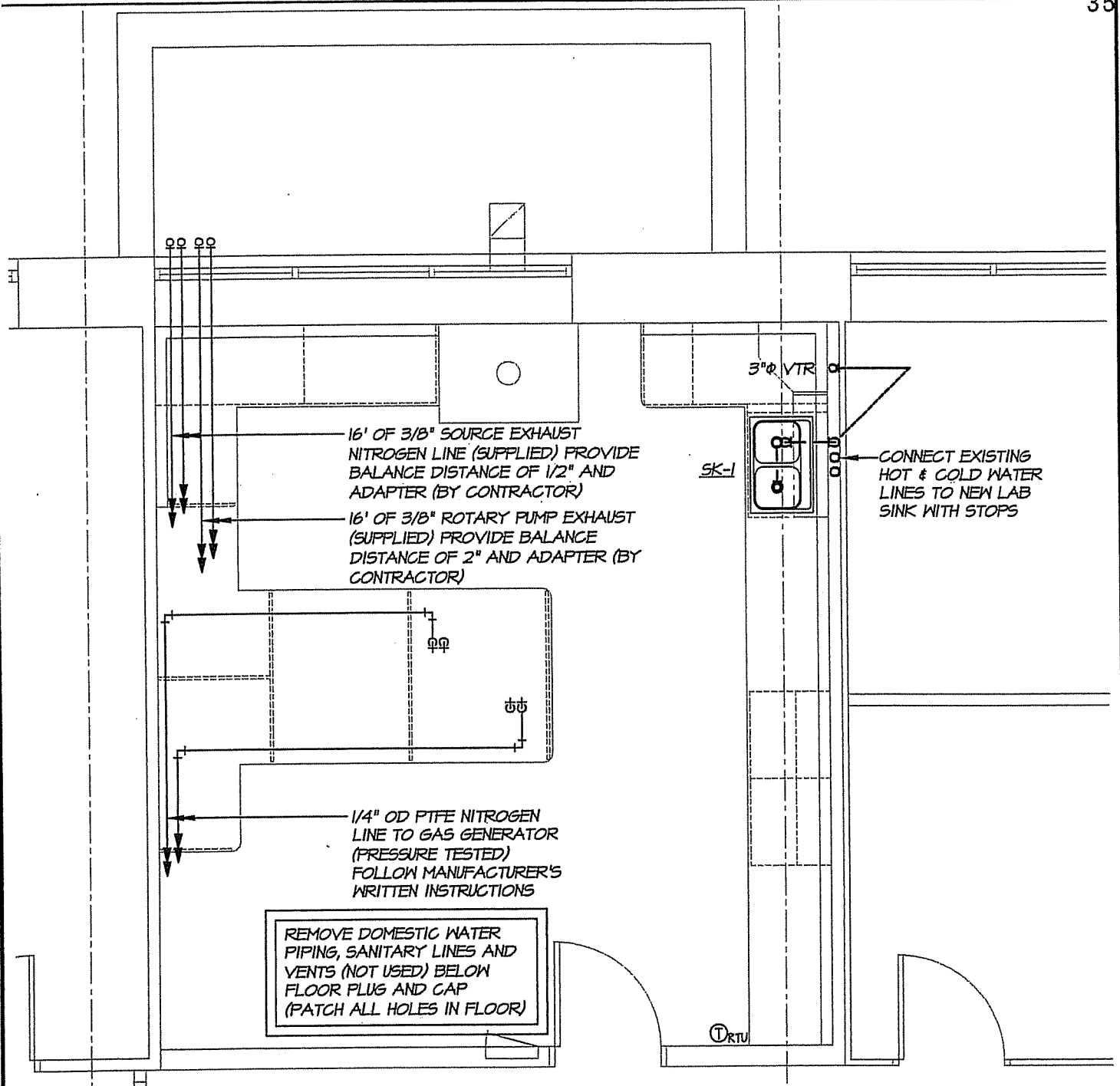
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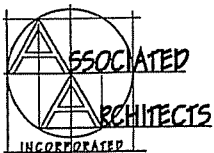
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON,
 WEST VIRGINIA

DATE: 1/21/08
 FLOOR PLAN
PO.4



PLUMBING - PLAN
 SCALE: 1/4" = 1'-0"

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DATE:
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 FLOOR PLAN
 P.I.

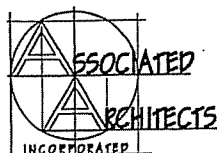
GENERAL MECHANICAL NOTES:

1. ALL EQUIPMENT SHALL BE ARRANGED TO AFFORD ACCESS FOR INSPECTION, MAINTENANCE, AND REPAIR. THE CONTRACTOR SHALL SUBMIT PROPOSED EQUIPMENT CUT-SHEETS AND INFORMATION SHOWING COMPLIANCE TO THE PLANS.
2. ALL HEATING AND COOLING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NFPA STANDARDS AND THE MANUFACTURER'S INSTRUCTIONS.
3. ALL SUPPLY, RETURN AND EXHAUST AIR DUCT SHALL BE SEALED HUNG AND FABRICATED MATCHING OR EXCEEDING THE SMACNA STANDARDS FOR:
 - 1" WG: LOW PRESSURE RECTANGULAR DUCT
 - 2" WG: LOW PRESSURE ROUND DUCT
4. ALL SUPPLY, RETURN AND EXHAUST AIR DUCT SHALL BE FABRICATED USING GALVANIZED SHEET METAL G60 OR BETTER HAVING A CLEAR PHYSICAL SIZE AS INDICATED WITHIN THE DRAWINGS AND HAVING A THICKNESS EQUAL TO OR GREATER THAN:
 - 26 GA: RECTANGULAR DUCT
 - 30GA: ROUND DUCT
5. ALL SUPPLY, RETURN AND EXHAUST AIR DUCT SHALL CONFORM TO THE SMACNA STANDARDS CONCERNING AIR LEAKAGE AND BE FREE AND CLEAN FROM ALL DEBRIS.
6. ALL MATERIALS USED WITHIN DUCT SYSTEMS SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 WITHOUT EVIDENCE OF CONTINUED PROGRESSIVE COMBUSTION AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH NFPA 255.
7. WRAP ALL AIR DUCT WITH INTERNATIONAL ENERGY CODE COMPLIANCE INSULATION AS INDICATED BELOW:

	CONDITIONED SPACE	UNCONDITIONED SPACE
SUPPLY AIR DUCT	TYPE T5 2.0"	TYPE T5 3.0"
RETURN AIR DUCT	NONE	TYPE T5 3.0"
EXHAUST AIR DUCT	NONE	NONE
OUTSIDE AIR DUCT	TYPE T5 2.0"	TYPE T5 3.0"

8. PROVIDE AND INSTALL MANUAL DAMPERS FOR EACH DIFFUSER.
9. VERIFY THERMOSTAT LOCATION WITH OWNER OR OWNER'S REPRESENTATIVE.
10. ALL CUTTING AND PATCHING SHALL BE DONE BY THE MECHANICAL CONTRACTOR; OVER CUTTING SHALL BE REPAIRED AT THE DISCRETION OF THE OWNER OR OWNER'S REPRESENTATIVE.
11. ALL PERMITS PERTAINING TO THE MECHANICAL CONTRACTOR'S WORK SHALL BE OBTAINED BY THE MECHANICAL CONTRACTOR, AND BE INCLUDED WITHIN THE BID PRICE.
12. SHOULD THERE BE ANY OMISSION OR APPARENT ERRORS THE BIDDERS OR CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
13. SHOULD AN ACCEPTABLE EQUAL MANUFACTURER BE FURNISHED FOR ANY EQUIPMENT. ALL PHYSICAL DIMENSIONS, ELECTRICAL REQUIREMENTS, NATURAL GAS REQUIREMENTS SHALL BE VERIFIED AND APPROPRIATE MODIFICATIONS BE MADE TO MAINTAIN THE INTENT OF THE DESIGN. THE COST ASSOCIATED WITH THE REQUIRED MODIFICATIONS SHALL BE INCLUDED WITHIN THE BID AND THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR SUCH MODIFICATIONS.
14. ALL SUPPLY AIR TAKE OFFS SERVING ONLY ONE DIFFUSER SHALL HAVE A BALANCING DAMPER. ALL SUPPLY AIR TAKE OFFS SERVING MORE THAN ONE DIFFUSER SHALL UTILIZE AN EXPANDED TAP (6" MIN 45 deg or MORE).
15. COORDINATE ALL WORK WITH THE OTHER TRADES. SHOULD A SPATIAL CONFLICT ARISE THE CONTRACTOR SHALL GENERATE COORDINATION DRAWINGS AT DOUBLE THE CONSTRUCTION DOCUMENT SCALE (1/8" = 1'-0" FOR 3/8" = 1'-0", 1/4" = 1'-0" FOR 1/8" = 1'-0" etc) TO PLAN AND RESOLVE THE SPATIAL CONFLICT.

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DHR MEDICAL LAB - RENOVATIONS OF

METABOLIC SCREENING LAB

SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08

FLOOR PLAN

MO.1

DIFFUSER & GRILLE SCHEDULE

MARK	MAKE	MODEL	FACE SIZE	MOUNTING	PANEL	MATERIAL	CONNECTION
A	TITUS	TMS	12x12	SURFACE	NO	STEEL	8"φ
B	TITUS	TMS	24x24	LAY-IN	NO	STEEL	8"φ
C	TITUS	TMS	24x24	LAY-IN	NO	STEEL	10"φ
D	TITUS	TMS	24x24	LAY-IN	NO	STEEL	12"φ
E	TITUS	4 T-SLOT	8x24	LAY-IN	NO	STEEL	8"φ OVAL
F	TITUS	4 T-SLOT	8x24	LAY-IN	NO	STEEL	10"φ OVAL
AA	TITUS	35ORL	12x12	SURFACE	NO	STEEL	8"φ
BB	TITUS	35ORL	24x24	LAY-IN	NO	STEEL	8"φ
CC	TITUS	35ORL	24x24	LAY-IN	NO	STEEL	10"φ
DD	TITUS	35ORL	24x24	LAY-IN	NO	STEEL	12"φ
KK	TITUS	35ORL	24x24	LAY-IN	NO	STEEL	NA

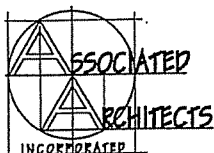
SQUARE SUPPLY DIFFUSER NOTES:

- 1.) THE TMS AND TMS-AA MODELS SHALL HAVE THREE CONES, WHICH GIVE A UNIFORM FACE SIZE AND APPEARANCE WHEN DIFFERENT NECK SIZES ARE USED IN THE SAME AREA.
- 2.) ALL CONES SHALL BE ONE PIECE PRECISION DIE-STAMPED; THE BACK CONE SHALL ALSO INCLUDE AN INTEGRALLY DRAWN INLET. THE INNER CONE ASSEMBLY MUST HAVE A HOLE WITH REMOVABLE PLUG IN THE CENTER TO ALLOW QUICK ADJUSTMENT OF AN OPTIONAL INLET DAMPER WITHOUT REMOVING THE INNER CONE ASSEMBLY.
- 3.) DIFFUSERS SHALL BE CONSTRUCTED OF 24-GAUGE STEEL (TMS) OR 0.040 ALUMINIUM (TMS-AA). THE FINISH SHALL BE #26 WHITE, UNLESS OTHERWISE INDICATED. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315 deg F FOR 30 MIN.
- 4.) THE CONTRACTOR SHALL PROVIDE PUBLISHED PERFORMANCE DATA FROM THE MANUFACTURER FOR THE SQUARE DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-1991.

RETURN/EXHAUST GRILLE NOTES:

- 1.) THE 35OL MODELS SHALL HAVE 1.25" WIDE BLADE, 0.75" BLADE SPACING WITH A 35 deg DEFLECTION.
- 2.) DEFLECTION BLADES SHALL BE CONTOURED TO A SPECIFICALLY DESIGNED AND TESTED CROSS-SECTION TO MEET PUBLISHED TEST PERFORMANCE DATA. BLADES SHALL BE FIRMLY HELD IN PLACE BY MULLIONS FROM BEHIND THE GRILLE AND FIXED TO THE GRILLE BY WELDING IN PLACE.
- 3.) THE FINISH SHALL BE #26 WHITE, UNLESS OTHERWISE INDICATED. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315 deg F FOR 30 MIN.
- 4.) THE CONTRACTOR SHALL PROVIDE PUBLISHED PERFORMANCE DATA FROM THE MANUFACTURER FOR THE SQUARE DIFFUSER. THE DIFFUSER SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-1991.

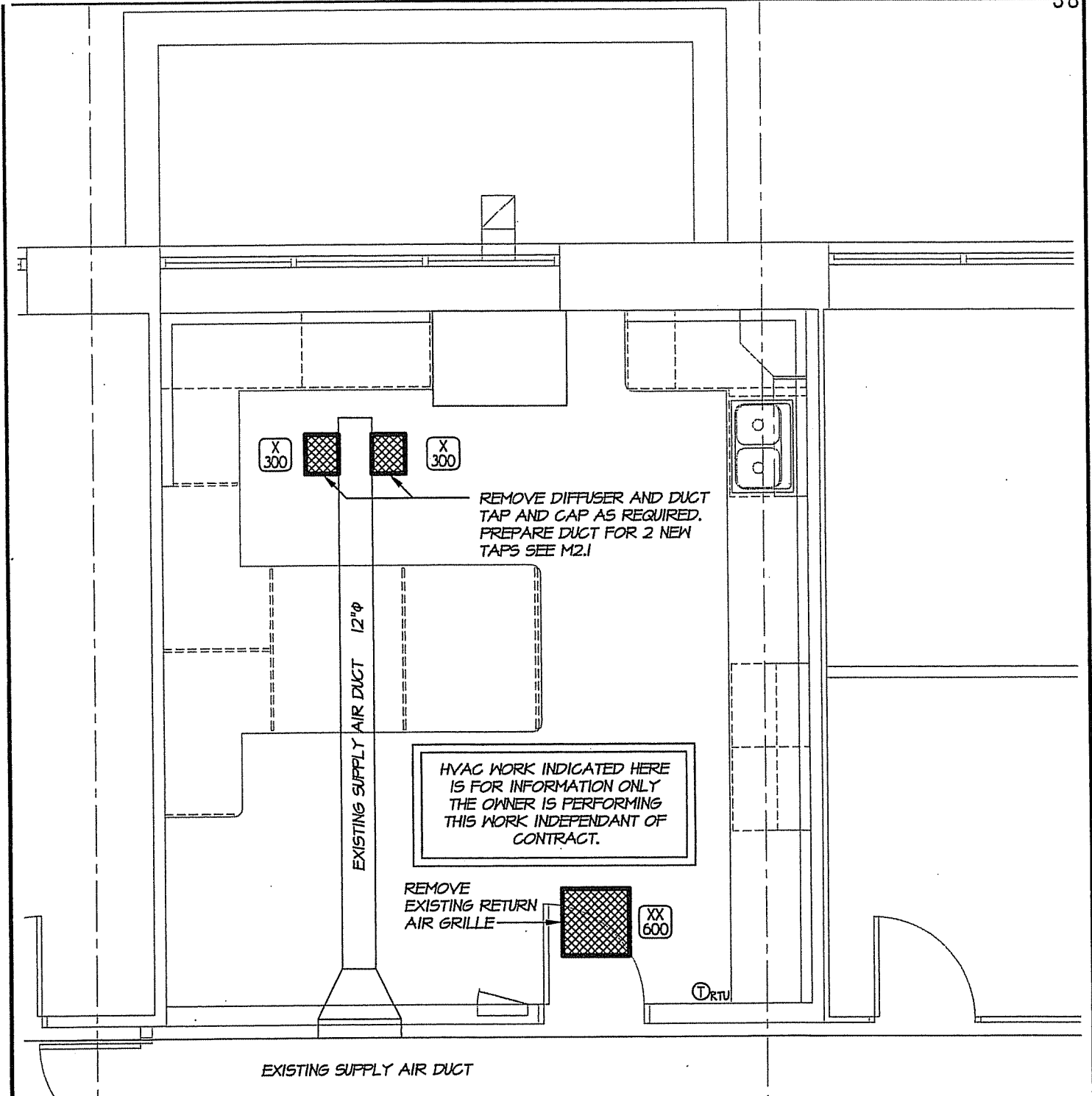
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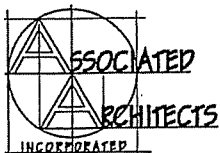
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON,
 WEST VIRGINIA

DATE: 1/21/08
FLOOR PLAN: MO.2



MECHANICAL - DEMOLITION PLAN (NIC)
 SCALE: 1/4" = 1'-0"

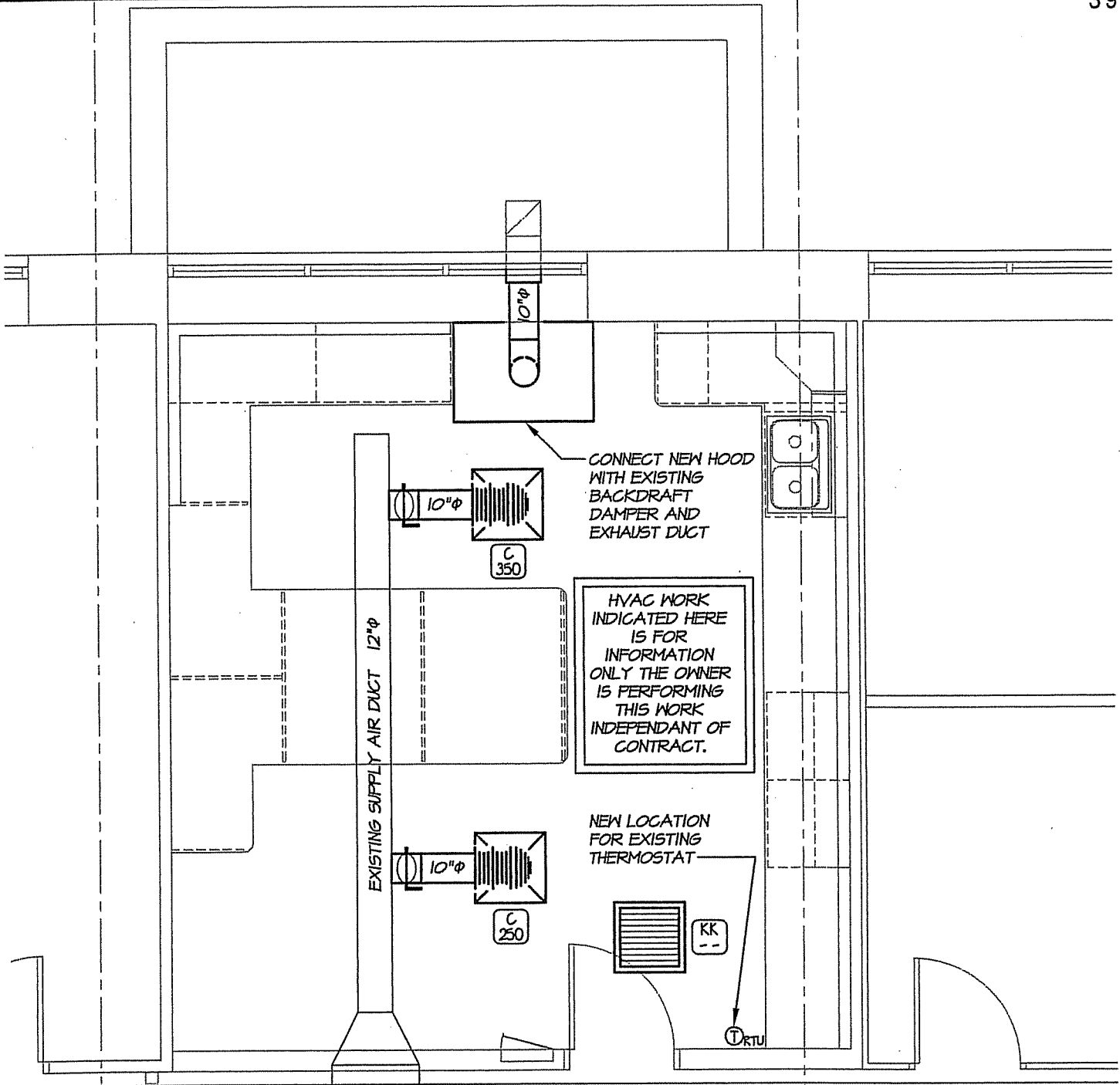
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DATE:
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 FLOOR PLAN
 M.I.



CONNECT NEW HOOD WITH EXISTING BACKDRAFT DAMPER AND EXHAUST DUCT

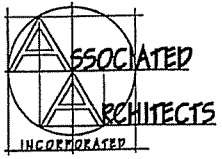
HVAC WORK INDICATED HERE IS FOR INFORMATION ONLY THE OWNER IS PERFORMING THIS WORK INDEPENDANT OF CONTRACT.

NEW LOCATION FOR EXISTING THERMOSTAT

EXISTING SUPPLY AIR DUCT

MECHANICAL - HVAC PLAN (NIC)
SCALE: 1/4" = 1'-0"

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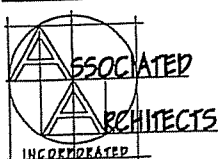
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
SOUTH CHARLESTON,
WEST VIRGINIA

DATE:
1/21/08
FLOOR PLAN
M2.1

GENERAL ELECTRICAL NOTES:

- 1.) ALL REQUIRED PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AND SHALL BE INCLUDED WITHIN THE BID. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED INSPECTIONS PRIOR TO COVERING WORK IN QUESTION.
- 2.) ALL INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 3.) ALL CONDUIT AND OTHER RACEWAYS SHALL BE INSTALLED PERPENDICULAR OR PARALLEL TO STRUCTURE, WALLS, ETC.
- 4.) COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE MECHANICAL CONTRACTOR. SHOULD ALTERNATE BUT EQUAL HVAC EQUIPMENT BE CHOSEN AND APPROVED ALL ELECTRICAL CIRCUITS, BREAKERS, DISCONNECTS, ETC. MUST BE VERIFIED AND MODIFIED TO ACCOMMODATE THE HVAC EQUIPMENT BEING SUPPLIED WITH NO ADDITIONAL COST TO THE OWNER.
- 5.) THE ELECTRICAL CONTRACTOR SHALL ROUGH-IN ALL THERMOSTAT BOXES, SENSOR BOXES, VOICE BOXES, DATA BOXES, ETC. AND INSTALL CONDUIT WITH A LONG RADIUS TERMINATED WITHIN THE CEILING ABOVE.
- 6.) ALL HVAC CONTROL WIRING AND SYSTEMS LESS THAN 100V SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
- 7.) ALL CONDUCTORS SHALL BE COPPER (SOLID #10 AND SMALLER & STRANDED #8 AND LARGER) WITH THIN INSULATION UNLESS OTHERWISE NOTED. THE SMALLEST CONDUCTOR SHALL BE #12 AND THE SMALLEST CONDUIT USED SHALL BE 3/4".
- 8.) THE WORK HEREIN SPECIFIED SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL UNDER NORMAL USE AND SERVICE. IF WITHIN TWELVE (12) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND OWNER ACCEPTANCE OF WORK HEREIN DESCRIBED, ANY OF THE EQUIPMENT OR MATERIALS, OR THE INSTALLATION THEREOF, IS FOUND TO BE DEFECTIVE IN WORKMANSHIP OR MATERIAL, IT SHALL BE REPLACED OR REPAIRED FREE OF CHARGE.
- 9.) THE CONTRACTOR SHALL, AFTER COMPLETION OF THE ORIGINAL TEST OF THE INSTALLATION AND ACCEPTANCE BY THE OWNER, PROVIDE ANY SERVICE INCIDENTAL TO THE PROPER PERFORMANCE OF THE ELECTRICAL SYSTEMS UNDER GUARANTEES OUTLINED ABOVE FOR A PERIOD OF TWELVE (12) MONTHS.
- 10.) WORK SHALL CONFORM TO ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
- 11.) ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
- 12.) IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, STATE LAWS, LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER IN WRITING OF ANY SUCH DIFFERENCE.
- 13.) NONCOMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
- 14.) ALL REQUIRED FEES, PERMITS, AND INSPECTIONS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR UNDER THE SECTION OF SPECIFICATIONS FOR WHICH THEY ARE REQUIRED.
- 15.) INSTALL WORK IN LOCATIONS SHOWN ON THE DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. THE OWNER RESERVES THE RIGHT TO RELOCATE ANY DEVICE A MAXIMUM DISTANCE OF SIX (6) FEET AT THE TIME OF INSTALLATION WITHOUT AN EXTRA COST BEING INCURRED.
- 16.) THE CONTRACTOR SHALL PERFORM A CONTINUITY TEST ON THE ENTIRE ELECTRICAL SYSTEM PRIOR TO ENERGIZING THE SYSTEM TO INSURE PROPER CABLE CONNECTIONS.
- 17.) ALL LARGER CONDUCTOR BOLTED CONNECTIONS SHALL BE TORQUE TESTED USING A TORQUE WRENCH. TORQUE SHALL BE TO NATIONAL ELECTRICAL TESTING ASSOCIATION'S (NETA) STANDARDS.
- 18.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL SWITCHES, RECEPTACLES, AND FIXED EQUIPMENT WITH BRANCH CIRCUIT PANEL NAME AND NUMBER SERVING EACH DEVICE.
- 19.) ALL ELECTRICAL EQUIPMENT, SUCH AS SWITCHES, CIRCUIT BREAKERS, ETC. SHALL BE TESTED BY OPERATING THE DEVICE TO VERIFY THAT THE MECHANICAL PORTIONS OF THE DEVICE ARE FUNCTIONING PROPERLY.
- 20.) EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR AND MULTI-WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND CONDUCTOR. THE EQUIPMENT GROUND CONDUCTOR SHALL NO BE LESS THEN #12 AWG OR AS INDICATED ON THE DRAWINGS. PROVIDE ELECTRICALLY CONTINUOUS, TIGHT GROUNDING CONNECTIONS FOR WIRING DEVICES, UNLESS OTHERWISE INDICATED. DEVICE GROUNDING CONNECTIONS SHALL BE MADE VIA A PIGTAIL FROM THE GROUND SCREW WITHIN THE DEVICE BACK BOX. INSTALL IN STRICT ACCORDANCE WITH NEC ARTICLES PERTAINING TO GROUNDING.

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DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08
FLOOR PLAN
EO.1

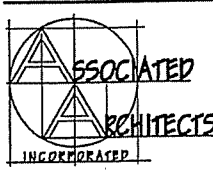
ELECTRICAL SYMBOLS LEGEND

SYMBOL	DEVICE	DESCRIPTION	COLOR	PLATE	MOUNTING
⊕	125V-20A (NEMA 5-20R) - 2 POLE, 3 WIRE GROUNDING HEAVY DUTY, SPECIFICATION GRADE, DUPLEX RECEPTACLE (UL LISTED).	FLUSH NYLON FACE, BACK AND SIDE WIRED, MULTIPLE DRIVE SCREWS.	S. STL.	STANDARD SIZE, SMOOTH NYLON DEVICE PLATES COLOR TO MATCH DEVICE.	18" MOUNTING HEIGHT UNLESS OTHERWISE NOTED AT DEVICE.
⊕ GFCI	125V-20A (NEMA 5-20R) - 2 POLE, 3 WIRE GROUNDING HEAVY DUTY, SPECIFICATION GRADE, GFCI DUPLEX RECEPTACLE (UL LISTED).	FLUSH NYLON FACE, BACK AND SIDE WIRED, MULTIPLE DRIVE SCREWS WITH MATCHING WALL PLATE.	S. STL.	STANDARD SIZE, SMOOTH NYLON DEVICE PLATES COLOR TO MATCH DEVICE.	48" MOUNTING HEIGHT UNLESS OTHERWISE NOTED AT DEVICE.
⊕	TWO 125V-20A (NEMA 5-20R) - 2 POLE, 3 WIRE GROUNDING HEAVY DUTY, SPECIFICATION GRADE, DUPLEX RECEPTACLE (UL LISTED).	FLUSH NYLON FACE, BACK AND SIDE WIRED, MULTIPLE DRIVE SCREWS.	S. STL.	STANDARD SIZE, SMOOTH NYLON DEVICE PLATES COLOR TO MATCH DEVICE.	18" ABOVE FINISH GRADE UNLESS OTHERWISE NOTED AT DEVICE.
S	TWO 2TTV - 20A COMMERCIAL SERIES SPECIFICATION GRADE SPST AC TOGGLE SWITCHES WITH GROUND SCREW (UL LISTED).	BACK AND SIDE WIRED (SEE SCHEMATIC FOR CONNECTIONS)	S. STL.	STANDARD SIZE, SMOOTH NYLON DEVICE PLATES COLOR TO MATCH DEVICE.	48" MOUNTING HEIGHT UNLESS OTHERWISE NOTED AT DEVICE.
S	ONE 2TTV - 20A COMMERCIAL SERIES SPECIFICATION GRADE SPST AC TOGGLE SWITCHES WITH GROUND SCREW (UL LISTED).	BACK AND SIDE WIRED (SEE SCHEMATIC FOR CONNECTIONS)	S. STL.	STANDARD SIZE, SMOOTH NYLON DEVICE PLATES COLOR TO MATCH DEVICE.	48" MOUNTING HEIGHT UNLESS OTHERWISE NOTED AT DEVICE.
◀	VOICE/DATA OUTLET	BOX WITH CONDUIT TO CEILING SEE DETAIL		DATANETWORK PLATES, JACKS AND WIRING PROVIDED BY OTHERS	SEE DETAIL FOR MOUNTING HEIGHT

NOTES:

- 1) ACCEPTABLE MANUFACTURER'S FOR WIRING DEVICES INCLUDE:
 - a) HUBBELL
 - b) LEVITON
- 2) ACCEPTABLE MANUFACTURER'S FOR HEAVY DUTY SAFETY SWITCHES:
 - a) SQUARE D
 - b) GENERAL ELECTRIC
 - c) CUTLER HAMMER

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DHR MEDICAL LAB - RENOVATIONS OF

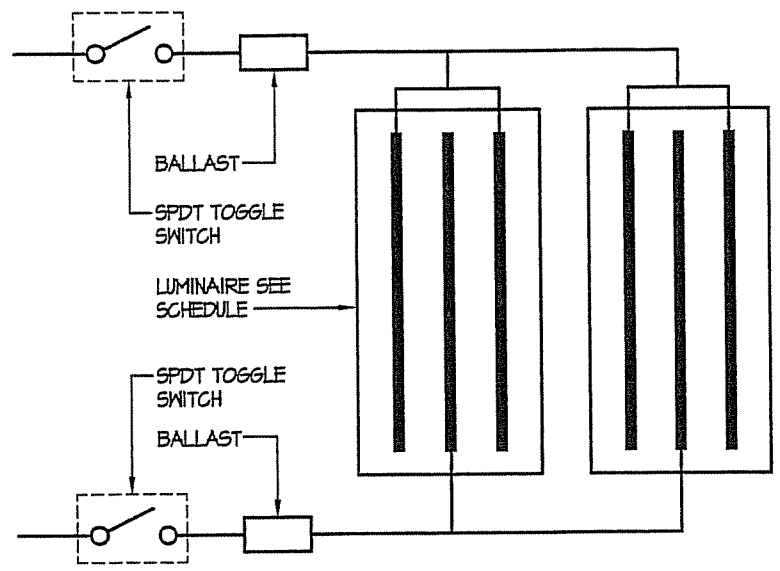
METABOLIC SCREENING LAB

SOUTH CHARLESTON, WEST VIRGINIA

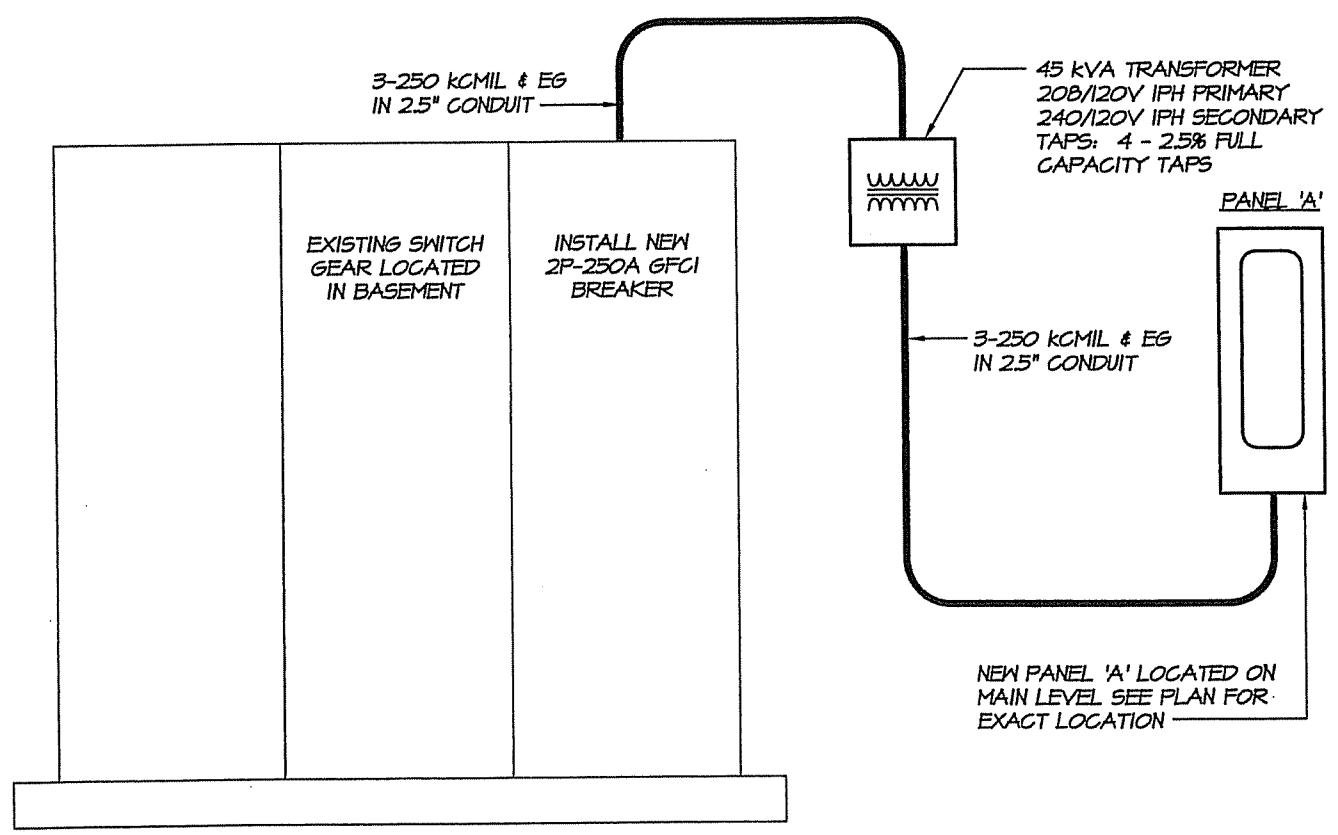
DATE: 1/21/08

FLOOR PLAN

E0.2

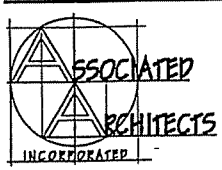


BALLAST SWITCHING DETAIL
SCALE: NONE



ELECTRICAL RISER SCHEMATIC
SCALE: NONE

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DHHR MEDICAL LAB - RENOVATIONS OF
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SOUTH CHARLESTON,
WEST VIRGINIA

DATE:
1/21/08
FLOOR PLAN
E0.3

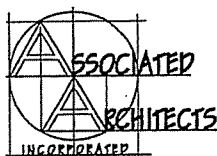
PANEL 'A'

MAIN BREAKER: 150A
AIC: TBD
N - G: NONE
BUS MATERIAL: COPPER

PANEL: SQUARE D
WIRE: 3W
VOLTAGE: 240 / 1PH
MAIN BUS RATING: 150A (CONTINUOUS)

SERVICE	BREAKER	CONDUCTORS		LOAD	CIR	CIR	CIR	LOAD	CIR	CONDUCTORS		BREAKER	CONDUCTORS	LOAD	CIR	BREAKER	SERVICE
		WIRE	GND							WIRE	GND						
LIGHTS	IP-20A	2 #12's	#12	3/4"	500	1	500	500	1	2 #12's	#12	IP-20A	3 #12's	2KW	2	2P-20A	#8 PEAK GAS GENERATOR (6-20 MTD 18" AFF)
PRINTER	IP-20A	2 #12's	#12	3/4"	500	3	500	500	3	2 #12's	#12	IP-20A	3 #12's	2KW	4	2P-20A	#8 PEAK GAS GENERATOR (6-20 MTD 18" AFF)
UPS (NEMA ???)	2P-30A	3 #10's	#10	3/4"	4KVA	5	4KVA	4KVA	5	3 #10's	#10	2P-30A	3 #10's	2KVA	6	2P-30A	#8 PEAK GAS GENERATOR (6-20 MTD 18" AFF)
UPS (NEMA ???)	2P-30A	3 #10's	#10	3/4"	4KVA	7	4KVA	4KVA	7	3 #10's	#10	2P-30A	3 #10's	2KVA	8	2P-30A	HOOD
SPARE	IP-20A					9			9			IP-20A	2 #12's	200	10	IP-20A	RCPT
SPARE	IP-20A					11			11			IP-20A	2 #12's	1KW	12	IP-20A	COMPUTER WITH MONITOR
COMPUTER WITH MONITOR	IP-20A	2 #12's	#12	3/4"	1KW	13			13			IP-20A			14	IP-20A	SPARE
SPARE	IP-20A					15			15			IP-20A			16	IP-20A	SPARE
COMPUTER WITH MONITOR	IP-20A	2 #12's	#12	3/4"	1KW	17			17			IP-20A			18	IP-20A	SPARE
SPARE	IP-20A					19			19			IP-20A			20	IP-20A	SPARE
SPARE	IP-20A					21			21			IP-20A			22	IP-20A	#4 3 PLATE INCUBATOR
#4 3 PLATE INCUBATOR	IP-20A	2 #12's	#12	3/4"	1.8KW	23			23			IP-20A	2 #12's	1.8KW	24	IP-20A	#10 PLATE SEALER
#11 DBS FUNCHER	IP-20A	2 #12's	#12	3/4"	1.8KW	25			25			IP-20A	2 #12's	1.8KW	26	IP-20A	#12 PLATE SEALER
RCPT	IP-20A	2 #12's	#12	3/4"	500	27			27			IP-20A	2 #12's	500	28	IP-20A	RCPT
RCPT	IP-20A	2 #12's	#12	3/4"	500	29			29			IP-20A	2 #12's	500	30	IP-20A	RCPT
RCPT	IP-20A	2 #12's	#12	3/4"	500	31			31			IP-20A	2 #12's	500	32	IP-20A	RCPT
	IP-20A					33			33			IP-20A			34	IP-20A	
	IP-20A					35			35			IP-20A			36	IP-20A	
	IP-20A					37			37			IP-20A			38	IP-20A	
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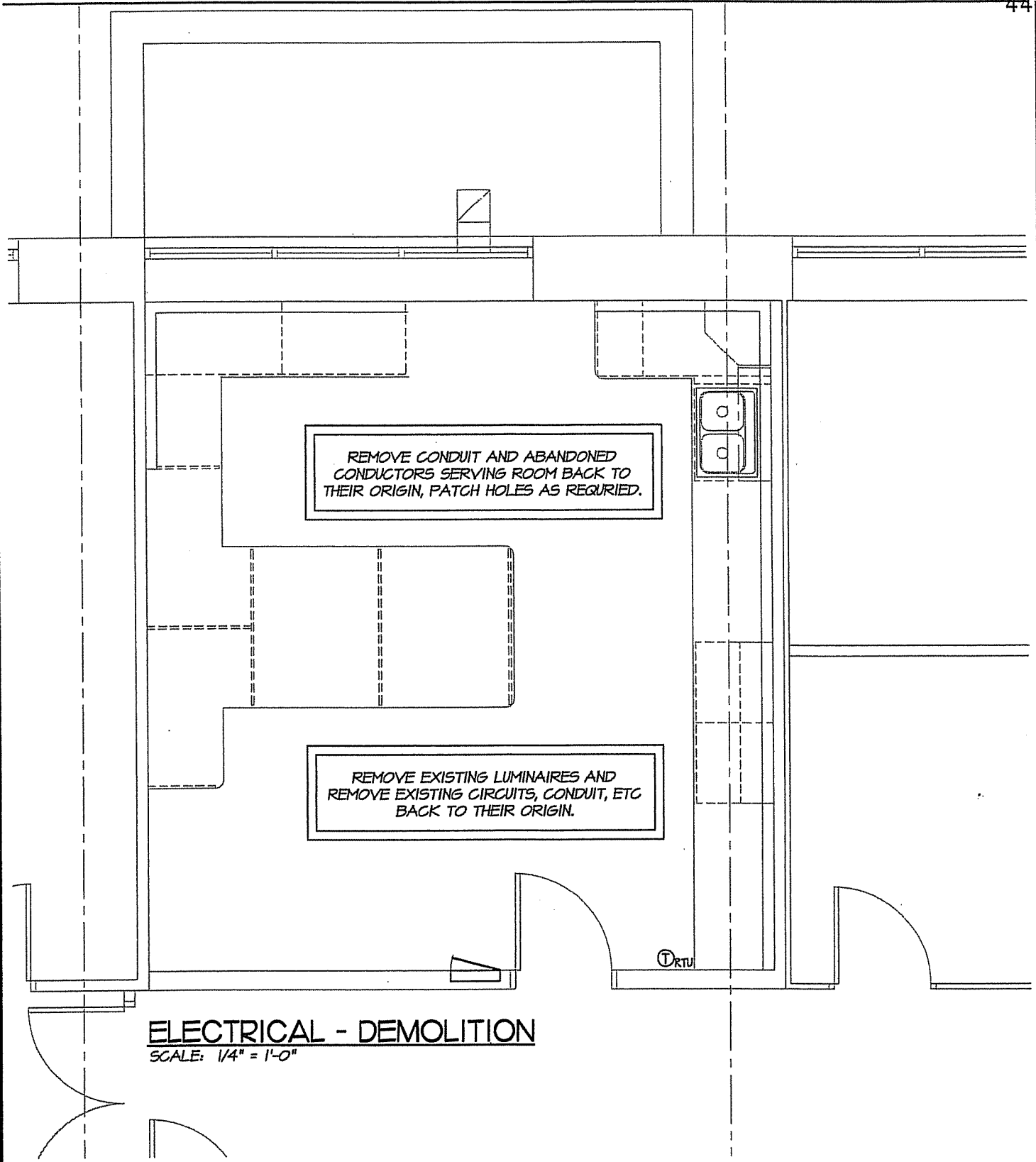
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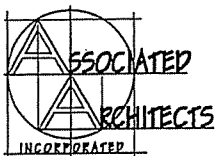
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
SOUTH CHARLESTON, WEST VIRGINIA

DATE: 1/21/08
FLOOR PLAN: **EO.4**



ELECTRICAL - DEMOLITION
 SCALE: 1/4" = 1'-0"

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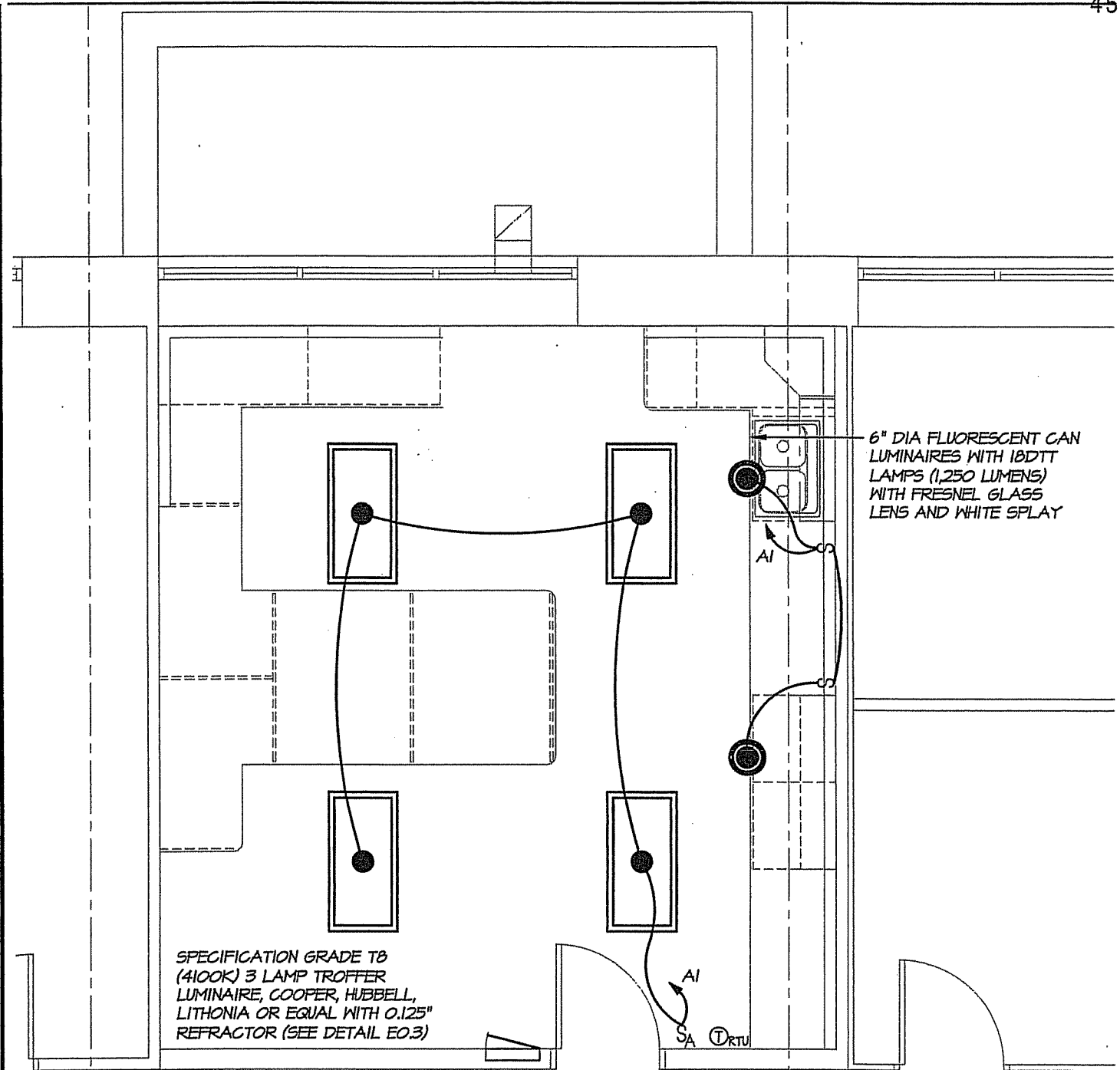
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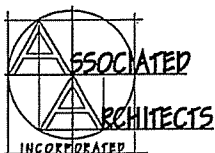


SPECIFICATION GRADE T8
 (4100K) 3 LAMP TROFFER
 LUMINAIRE, COOPER, HUBBELL,
 LITHONIA OR EQUAL WITH 0.125"
 REFRACTOR (SEE DETAIL EQ.3)

6" DIA FLUORESCENT CAN
 LUMINAIRE WITH 1ØDTT
 LAMPS (1,250 LUMENS)
 WITH FRESNEL GLASS
 LENS AND WHITE SPLAY

ELECTRICAL - LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

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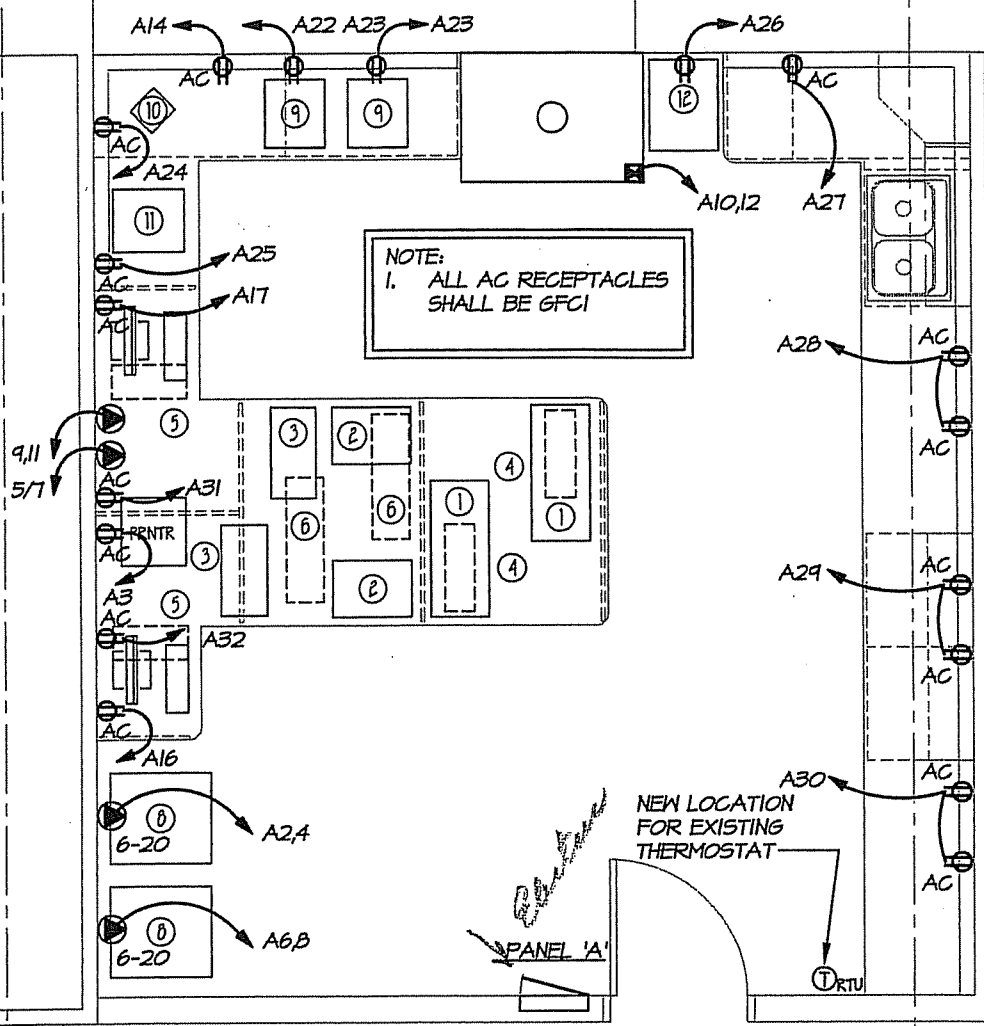
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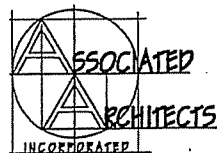
DHHR MEDICAL LAB - RENOVATIONS OF
METABOLIC SCREENING LAB
 SOUTH CHARLESTON,
 WEST VIRGINIA

DATE:
 1/21/08
 FLOOR PLAN
 E2.1



ELECTRICAL - POWER PLAN
 SCALE: 1/4" = 1'-0"

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DHHR MEDICAL LAB - RENOVATIONS OF
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 SOUTH CHARLESTON,
 WEST VIRGINIA

DATE:
 1/21/08
 FLOOR PLAN
 E3.1

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

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. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____ Date: _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
_____ of _____, _____, as Principal, and _____
_____ of _____, _____, a corporation organized and existing under the laws of the State of _____
_____ with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the
agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in full
force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and these presents to be signed by their proper officers, this
_____ day of _____, 20_____.

Principal Corporate Seal

(Name of Principal)

By _____
(Must be President or
Vice President)

(Title)

Surety Corporate Seal

(Name of Surety)

Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals
must be affixed, a power of attorney must be attached.**

AGENCY _____ (A)
 RFQ/RFP# _____ (B)

Bid Bond

- (A) WV State Agency
(Stated on Page 1 "Spending Unit")
Request for Quotation Number (upper right corner of page #1)
- (C) Your Company Name
- (D) City, Location of your Company
- (E) State, Location of your Company
- (F) Surety Corporate Name
- (G) City, Location of Surety
- (H) State, Location of Surety
- (I) State of Surety Incorporation
- (J) City of Surety Incorporation
- (K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
- (L) Amount of bond in figures
- (M) Brief Description of scope of work
- (N) Day of the month
- (O) Month
- (P) Year
- (Q) Name of Corporation
- (R) Raised Corporate Seal of Principal
- (S) Signature of President or Vice President
- (T) Title of person signing
- (U) Raised Corporate Seal of Surety
- (V) Corporate Name of Surety
- (W) Signature of Attorney in Fact of the Surety

NOTE: Dated, Power of Attorney with Raised Surety Seal must accompany this bid bond.

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____ (C) of _____ (D), _____ (E), as Principal, and _____ (F) of _____ (G), _____ (H), a corporation organized and existing under the laws of the State of _____ (I) with its principal office in the City of _____ (J), as Surety, are held and firmly bound unto The State of West Virginia, as Obligee, in the penal sum of _____ (K) (\$ _____ (L)) for the payment of which, well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for _____ (M)

NOW THEREFORE.

(a) If said bid shall be rejected, or
 (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, Principal and Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be affixed hereto and these presents to be signed by their proper officers, this _____ (N) day of _____ (O), 20 _____ (P).

Principal Corporate Seal _____ (Q)
 (Name of Principal)
 By _____ (S)
 (Must be President or Vice President)
 _____ (T)
 Title

 (U)
 Surety Corporate Seal _____ (V)
 (Name of Surety)

 (W)
 Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised Corporate Seals must be affixed and a Power of Attorney must be attached.