



CORPORAL MICHAEL J. CRESCENZ VA MEDICAL  
CENTER

3900 WOODLAND AVENUE

PHILADELPHIA, PA 19104

Date: January 30<sup>th</sup>, 2024

Urgent Replacement of Hot Riser Bldg. 2 6th  
Floor Interstitial  
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Healthcare Engineer

## 1. Background Information

A section of a 5" galvanized hot water riser main located on Column E-13 in the 6th Floor Interstitial in Building 2 is leaking due to age and significant amount of corrosion and decay. This poses a risk to the floors and medical equipment underneath if the pipe ruptures. This project will replace the corroding copper and galvanized steel pipe riser main from the Sub-Basement (water heater check valve located in Room B3B111) to the 8th Floor of Building 2. The diameter of the copper pipe should match the replaced galvanized pipe.

Location of Work

Address:

- Corporal Michael J. Crescenz VA Medical Center (CMCVAMC)  
3900 Woodland Ave, Philadelphia, PA 19104  
Building 2 - Floors Sub-Basement to 8th

## 2. Scope of Work

The awarded Contractor shall supply all necessary tools, labor, equipment, materials, and supervision required to replace the entire hot water riser associated with the leaking 5" galvanized hot water riser pipe main at Column E-13 in the 6th Floor Interstitial. The scope of work includes but not limited to the replacement of the 6" copper pipe that runs from the hot water heaters to the flange in the Sub-Basement Floor, the 6" galvanized steel pipe that runs from the flange to the 6th Floor Interstitial, the 5" galvanized steel pipe that runs from the 6th Floor Interstitial to the 8th Floor, and the rest of the copper pipe running towards the Penthouse. Replace the galvanized pipe with similar diameter copper pipe all the way through to the valves located on the 8th Floor. A portion of the riser path is enclosed in chase in some areas and runs exposed in mechanical room/interstitial areas. New copper pipes are required to be brazed and properly riser climbed where it is routed in enclosed chase. Existing valves are to be replaced with new valves along the riser path.

Specifically, the contractor shall complete the following work:

- Install ICRA as required during all phases of the work to include plastic sheeting and self-contained air filtration. ICRA to be removed at the conclusion of the work each day as necessary to facilitate hospital operations.
- Fabricate and install new 5" copper pipe and 6" copper pipe (approximately 120') with associated fittings, flanges, riser clamps, pipe brazing, check valves and butterfly valves as required from the Sub-Basement to the 8th Floor.

- Remove existing chase wall as required to access the hot water piping.
- Remove existing 5" and 6" galvanized hot water riser pipe and associated fittings, flanges, riser clamps, check valves and butterfly valves from the Sub-Basement (hot water heater) to the 8<sup>th</sup> Floor.
- Install new copper hot water riser, put riser tie-ins back in place.
- Pressure test all new pipe to 100 psi.
- Hyperchlorinate new piping to  $\geq 200$  ppm for three hours minimum, and flush to  $\leq 4$  ppm at the conclusion of the retention period.
- Restore to original condition - Rebuild chase wall. Paint to match existing (Paint shall be Sherwin Williams ProMar 200zero VOC Interior Latex, Extra White Base, Eggshell Finish, Color – To match existing).

No large dumpsters will be permitted on site. Tommy Carts or equivalent will be used and will be coordinated with the project COR. Label Tommy Cart or equivalent with Company Name, Address, & Primary Contact Information.

Personal Protective Equipment (PPE). Contractor shall wear appropriate PPE per OSHA standards and regulations and contractors' safety plan.

### **3. Scope of Work Deduct (Optional Bid)**

This optional bid is the same as the initial Scope of Work, but the awarded Contractor shall supply all necessary tools, labor, equipment, materials, and supervision required to **ONLY** replace the section of the leaking 5" galvanized hot water riser main with copper pipe. This work will occur on Column E-13 starting at the stainless-steel butterfly valve located on the 8<sup>th</sup> Floor and ending on the 6<sup>th</sup> Floor Interstitial section (approximately 26').

### **4. Period of Performance**

All work shall be complete within 28 calendar days from the notice to proceed.

### **5. Additional Information**

#### **Safety and Security**

Contractor personnel that will be performing work at the CMCVAMC will be required to obtain a PIV badge. Contractor will coordinate issuance of PIV badges with the COR and CMCVAMC Police. The PIV badge will be clearly displayed by contractor personnel while at the facility.

The contractor shall adhere to all OSHA, EPA, NFPA Life Safety Codes, and all other regulatory requirements. In performance of this contract, the contractor shall follow CMCVAMC safety policies and standards for safe work practices and take such safety precautions as the Safety Officer or designee may determine to be reasonably necessary to protect the lives and health of occupants of the building. Contractor is responsible for the supervision of all the employees while on government property. The contractor is responsible to identify, provide and maintain all personal protective equipment required to perform the duties outlined in the contract. In addition, the contractor is responsible for identifying and providing all applicable safety programs (i.e., lockout/tag out, confined space entry, universal precautions, etc.) required performing the work. The contractor is responsible for providing its employees appropriate training on safety programs and the proper use of Personal Protective Equipment (PPE). Documentation shall be maintained by the contractor.

The C&A requirements do not apply, and that a Security Accreditation Package is not required.

The contractor shall coordinate access to all work areas with the CMCVAMC FMS staff. The contractor shall not interfere with patients or employees without prior notification to and approval from the CMCVAMC. The contractor shall ensure that, under no circumstances, any of its employees shall enter an area not authorized for access by the CMCVAMC. The contractor shall immediately notify the COR if any system is inoperable or hazardous via telephone and email.

### **Contractor Parking and Storage**

Contractor storage and parking are very limited and the CMCVAMC may not be able to accommodate requests for parking and/or storage.

### **Infection Control Risk Assessment (ICRA) and Worksite Cleanliness**

Infection Control Risk Assessment (ICRA) Protection will be required around the affected area. ICRA Protection will all be level 3. The Contracting Officer Representative (COR) and Infection Control will inspect and accept the ICRA barriers once the contractor's Superintendent alerts all that the barriers are ready for inspection. No construction work will be allowed to commence until after the ICRA barriers have been inspected and accepted by Infection Control personnel and the Project COR.

The contractor is responsible for daily worksite cleanliness from initiation of work until completion of work. The contractor shall not leave any tools, ladders, parts and/or supplies unattended in the public area at any time. After work is complete, the worksite must be thoroughly cleaned and returned to an acceptable level of cleanliness, as determined by the CMCVAMC.

### **Working Hours**

Unless otherwise approved by the COR, all work will be performed between 3:00pm - 11:00pm Monday through Friday. If the contractor desires to work outside these hours or over a weekend, prior approval is required from the CO and COR. Requests to modify these working hours shall be submitted in writing to CO and COR at least 3 days in advance to ensure patient care in uninterrupted and COR coverage of work is available. Weekend access is available through the B Gate Entrance on Woodland Ave.

### **Utility Shutdowns and Lock-out Tag-out**

The Contractor shall submit a request to interrupt any CMCVAMC CLC utility services to COR, in writing, at three weeks in advance of the proposed interruption. The request will be made on the CMCVAMC FMS Utility Shutdown Request Form and must indicate the reason, date, exact time of, and approximate duration of such interruption. The contractor shall work with the COR and other FMS staff to determine all operational impacts from a shutdown and mitigating efforts to limit impacts. Utility shutdowns may be required to be performed after hours and on weekends.

CFR 1910.147 App A – Typical Minimal Lockout Procedures shall be used for all Lock-Out Tag-out requirements (<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.147AppA>).