

ATTACHMENT 2 SCOPE OF WORK

1. Background.

The facility has medium pressure steam loop (steam, vacuum, and drip) on campus that requires replacement. The project is divided into steam loop sections for operational and bidding purposes.

2. Scope.

The scope of this project shall be to Design and Re-Build the existing steam loop in sections outlined in the specific tasks and Bid Items as outlined in Site-wide Steam Distribution Drawings (Attachment 6). Pits are denoted by circled letter on drawing. General Site-wide requirements are listed in General Requirements Section 01-00-00 (Attachment 4), and Safety and Health Requirements Section 01-01-11. Work shall include excavating existing steam trenches, crossing roadways and sidewalks when required, opening concrete trench, removing asbestos and piping, replacing with new piping, valves and insulation, closing concrete trench, backfilling and restoring to grade, repairing roadways and sidewalks when applicable

Design: the contractor shall acquire the services of an Architect/Engineer to design the project replacement steam sections. Specific steam design requirements are included in attached VA Steam Design Instructions (Attachment 5). Project level Design/Build Requirements are outlined in Section 00-11-21 (Attachment 3). Design deliverables and submittal review requirements are out lined in that section. The designer and contractor shall use applicable VA design specification sections available in VA Technical Information Library (TIL) located at: <http://www.cfm.va.gov/TIL/>.

Construction: All existing lines are in buried concrete pipe trenches (circa early 1960's). Piping and valves (except where otherwise noted) are asbestos wrapped. Existing pipe trench shall be reused. Existing hanger and support brackets shall be **replaced**. **The concrete-embedded support will be re-used**. All piping and insulation shall be removed and replaced. Valve and expansion joint replacement is noted on specific section detail.

3. Specific Tasks.

3.1 Base Bid Items

01 Design: All loop sections as noted in design scope.

02 Construction: Loop Section A-B

Replace main lines Approx distance 580 ft, 4 inch medium pressure steam (M), 2.5 inch vacuum return, 1.5 inch drip return. Replace lines from main loop to bldgs 63 and 65. Valve pits A, L, and B have been abated and replaced valves (2008) and do not require replacement.

3.2 Optional Item 1001

Construction: Loop Section A-Y

Replace main lines Approx distance 412 ft, 6 inch medium pressure steam (M), 3 inch vacuum return, 2.5 inch drip return. Approx half of this distance is covered by asphalt roadway. Valve pits A, F, S and Y have been abated and replaced valves (2008) and do not require replacement.

3.3 Optional Item 1002

Construction: Loop Section D-N,

Replace main lines Approx distance 1223 ft, (4, 3 and 2.5) inch medium pressure steam (M), (3, 2.5, and 2) inch vacuum return, 1.5 inch drip return. Existing Quarters 2, 3, 4 and 5 steam trench is to be sealed and connections are not to be replaced. Leave existing line from main loop to quarters 1 and bldg 7 in place and operational. **The work for valve pit N is included in this option item 1002.** Valve pit N has been abated but regulator needs replaced. Valve pit D (bldg 77) and K, require abatement and replacement valves. Pits W, T and X (expansion joints) require abatement and replacement.

3.4 Optional Item 1003

Construction: Loop Section N-S,

Replace main lines Approx distance 690 ft, 6 inch medium pressure steam (M), 3 inch vacuum return, 2.5 inch drip return. Replace lines from main loop to bldgs 86 and 74. Valve pit N **is included in option item 1002**, valve pits R, Q, and S have been abated and valves **replaced** (2008) and do not require replacement. Valve pit O and P requires abatement and valves and replaced.

4. Performance Monitoring

The Government is required to monitor contractor performance and certify the work was done in accordance with the contract. This monitoring will be done by the COTR thru routine inspections of the job site and specification reviews with the contractor.

5. Security Requirements

The contractor will need to complete the VA required PIV identification process prior to onsite work being started.

6. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI)

There will be no government furnished equipment in this contract.

8. Risk Control

No associated risks to infection control or patient care have been found applicable within the scope of work.

9. Place of Performance.

All work will be performed onsite at the Walla Walla VA medical center located at 77 Wainwright Drive, Walla Walla, WA 99362

10. Period of Performance.

Overall project design/build period of performance is detailed in FAR 52.211-10 Commencement, Prosecution and Completion of the Work. See General Requirements Section 01-00-00 (Attachment 4) paragraph 1.14 Schedule of Work for specific time constraints during construction, with a project end date in accordance with FAR 52.211-10 Commencement, Prosecution and Completion of the Work.

11. Delivery Schedule.

SOW Task#	Deliverable Title	Format	Copies	Calendar Days
3.1-3.4	Steam Design	Electronic and Printed full size copy	2 Copies to COTR; Letter Only to CO	30% - 14 after award 90% - 10 after Govt comments Final - 5 after Govt comments
3.1-3.4	Specification Package	Electronic and Printed copy	2 Copies to COTR; Letter Only to CO	30% - 14 after award 90% - 10 after Govt comments Final - 5 after Govt comments
3.1-3.4	Weekly construction and safety reports	Either electronic or paper copy	1 email or paper copy	Weekly during construction period
3.1-3.4	Commissioning Report	Contractor-Determined Format	Letter Only to CO; 1 deliverable to COTR	120 Days after award
3.1-3.4	As-built Drawings	Electronic CAD and three full size Printed copies	3 Printed Copies to COTR; 1 Electronic copy; Letter Only to CO	14 Days after completion of on-site work
3.1-3.4	Equipment manuals	Printed copies in three-ring binder or spiral bound	3 Copies to COTR; Letter Only to CO	14 Days after completion of on-site work