

**PROJECT
687-12-007
Repair Steam Infrastructure**

**SECTION 01 00 00
GENERAL REQUIREMENTS**

TABLE OF CONTENTS

1.1	General Intention
1.2	Statement of Bid Item(s)
1.3	Authority of the Contracting Officer (CO)
1.4	Authority of Inspectors
1.5	Specifications and Drawings for Contractor
1.6	Construction Security Requirements
1.7	Fire Safety Precautions
1.8	Operations and Storage Areas
1.9	Alterations
1.10	Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements
1.11	Restoration
1.12	Physical Data
1.13	Professional Surveying Services
1.14	Schedule of Work
1.15	As-built Drawings
1.16	Use of Roadways
1.17	Resident Engineer's Field Office
1.18	Temporary Use of Mechanical and Electrical Equipment
1.19	Temporary Use of Existing Elevators
1.20	Temporary Use of New Elevators
1.21	Temporary Toilets
1.22	Availability and Use of Utility Services
1.23	New Telephone Equipment
1.24	Tests
1.25	Instructions
1.26	Government-Furnished Property
1.27	Relocated Equipment and Items
1.28	Storage Space For Department Of Veterans Affairs Equipment
1.29	Construction Sign
1.30	Safety Sign
1.31	Construction Digital Images
1.32	Final Elevation Digital Images
1.33	Historic Preservation
1.34	Construction Safety
1.35	Access Badges
1.36	Key Control
1.37	Parking and Material Delivery
1.38	Recycling and Waste Management

**PROJECT
687-12-007
Repair Steam Infrastructure**

**SECTION 01 00 00
GENERAL REQUIREMENTS**

1.1 GENERAL INTENTION

- A. SCOPE OF WORK: Contractor shall design and build to completely prepare site for building operations, including demolition and removal of existing structures, and furnish labor and materials and perform work for repairing the existing steam loop.
- B. Visits to the site by Bidders may be made only by appointment with the Department of Veterans Affairs (VA) Medical Center Engineering Officer.
- C. Not used
- D. All employees of general contractor and sub Contractor shall comply with VA security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized access.
- E. Prior to commencing work, general contractor shall provide proof that an OSHA certified “competent person” (CP) 29 CFR 1926.20(b) (2) will maintain a presence at the work site whenever the general or subthe Contractor are present.

1.2 STATEMENT OF BID ITEM(S)

Item 01: Base Bid Item

Design: all loop sections as noted in design scope.

Item 02: Base Bid Item

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 buildings 63 and 65. Valve pits A, L, and B have been abated and replaced valves (2008) and do not require replacement.

OPTIONAL BID ITEMS TO BE ADDED TO ITEM 1:

Option 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...

Option 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.

Option 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 buildings 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.

1.3 AUTHORITY OF THE CONTRACTING OFFICER (CO)

The CO may delegate authority to representatives to decide on acceptability of work, progress of work, suspension of work, interpretation of the contract, and acceptable fulfillment of the contract. The term "CO" includes all authorized representatives of the CO, including inspectors, acting within the limits of their authority as delegated by the CO. In the event that conflicts arise between the contract documents, plans and specifications, the Contractor shall receive clarification from the CO prior to commencement of work.

1.4 AUTHORITY OF INSPECTORS

Inspectors are authorized to inspect all work including the preparation, fabrication, or manufacture of material for the project. The inspector is not authorized to alter or waive contract requirements, issue instruction contrary to the contract, act as foreman or supervisor for the Contractor, or direct the Contractor's operations. The inspector has authority to identify nonconforming work until the issue can be referred to and decided by the CO. The inspector may take necessary action to prevent imminent and substantial risk of death or injury including stopping work.

1.5 SPECIFICATIONS AND DRAWINGS FOR THE CONTRACTOR

- A. Drawings and specification are to be developed as part of this project.
- B. Additional sets of drawings may be made by the Contractor, at Contractor's expense.

1.6 CONSTRUCTION SECURITY REQUIREMENTS

- A. Security Plan:
 - 1. The security plan defines both physical and administrative security procedures that will remain effective for the entire duration of the project.
 - 2. The Contractor is responsible for assuring that all sub-the Contractor working on the project and their employees also comply with these regulations.
- B. Security Procedures:
 - 1. The Contractor's employees shall not enter the project site without appropriate badge. They may also be subject to inspection of their personal effects when entering or leaving the project site.
 - 2. For working outside the "regular hours" as defined in the contract, The Contractor shall give 3 working days notice to the CO so that arrangements can be provided for the employees. This notice is separate from any notices required for utility shutdown described in VA Specification Section 01 00 00 GENERAL REQUIREMENTS Article 1.7, Operations and Storage Areas, Paragraph I "*Utility Services*".
 - 3. No photography of VA premises is allowed except as described in VA Specification Section 01 00 00 GENERAL REQUIREMENTS Article 1.29 "*Construction Photographs*".
 - 4. VA reserves the right to close down or shut down the project site and order Contractor's employees off the premises in the event of a national emergency. The Contractor may return to the site only with the written approval of the CO.

1.7 FIRE SAFETY PRECAUTIONS

- A. Exits for VA occupied areas of a building including rooms, suites, corridors and floors shall not be blocked by the construction or by construction materials. Exits may be blocked temporarily if it is unavoidable and adequate alternate measures are provided such as signage, instructions to occupants, and a heat detection system.
- B. At the end of each workday, combustible packaging and crating materials for building products and equipment to be installed shall be removed from any VA occupied building.
- C. The necessary number and appropriate type of portable fire extinguishers per the latest edition of National Fire Protection Association NFPA® 10 Standard for Portable Fire Extinguishers and NFPA® 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations shall be provided in all construction areas.

- D. As required by the Joint Commission on Accreditation of Healthcare Organizations, smoking shall be prohibited in or adjacent to all construction areas in existing buildings. In totally separate buildings under construction, the contractor shall have a smoking policy which permits smoking only in designated areas and maintain a minimum of 20' away from any door or window that may allow for the smoke to gain entry into buildings on the station. These areas shall be provided with safe receptacles for smoking materials. Smoking shall be prohibited at or near and throughout demolition areas.
- E. Daily fire hazard inspections of the means of egress and weekly fire hazard surveillance inspections of the entire construction area shall be conducted by the contractor once construction starts and until the building or space is turned over to the government. A monthly summary report shall be provided to the CO documenting all inspections and listing all fire hazards identified and the corrective actions taken.
- F. A fire safety plan shall be prepared, prior to any construction, detailing all fire safety measures which will be addressed during the construction. The plan shall be provided to the CO for review and comment. A monthly status report shall also be provided during the entire construction detailing the status of each measure.
- G. Temporary structures, including trailers that are used for storage or offices, shall be a minimum of 9000 mm (30 feet) from any VA occupied building.
- H. All temporary heating equipment shall be installed in accordance with requirements of applicable NFPA Standards and manufacturers' instructions.
- I. All temporary electrical wiring and equipment used for construction shall be installed and used in accordance with pertinent provisions of the latest edition of NFPA Standard No. 70.
- J. Maintain construction site to permit access of fire department vehicles as necessary. Clear building construction areas of unnecessary obstructions so that all portions are accessible for fire department apparatus and permit emergency egress of construction and other personnel.
- K. Penetrations through fire rated barriers shall be sealed immediately with a material meeting the same fire resistive requirements of the barrier. All fire barrier sealing shall be installed by properly trained personnel. **USE OF EXPANDABLE FOAM SEALANT IS PROHIBITED UNLESS APPROVED BY CO.**

1.8 OPERATIONS AND STORAGE AREAS

- A. The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the CO. The CO shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- B. Temporary buildings (e.g., storage sheds, shops, office) and utilities may be erected by the Contractor only with the approval of the CO and shall be built with labor and materials furnished by the Contractor without expense to the Government. The temporary

buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the CO, the buildings and utilities may be abandoned and need not be removed.

- C. The Contractor shall, under regulations prescribed by the CO, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the CO. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.
- D. Working space and space available for storing materials shall be determined by the CO.
- E. Workmen are subject to rules of Medical Center applicable to their conduct. Refer to VA Regulation 1.218(b), VA Form 0088 being posted in each building.
- F. Execute work so as to interfere as little as possible with normal functioning of Medical Center as a whole, including operations of utility services, fire protection systems and any existing equipment, and with work being done by others. Use of equipment and tools that transmit vibrations and noises through the building structure, are not permitted in buildings that are occupied, during construction, jointly by patients or medical personnel, and Contractor's personnel, except as permitted by CO where required by limited working space.

Normal working hours will be 8 a.m. to 4:30 p.m., Monday through Friday, excluding holidays. Any other working hours must be approved two weeks in advance by the CO.

- 1. Do not store materials and equipment in other than assigned areas.
 - 2. Provide unobstructed access to Medical Center areas required to remain in operation.
 - 3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment will be permitted subject to fire and safety requirements.
- G. **Phasing:** To ensure such executions, Contractor shall furnish the CO with a schedule of approximate phasing dates on which the Contractor intends to accomplish work in each specific area of site, building or portion thereof. In addition, Contractor shall notify the CO two weeks in advance of the proposed date of starting work in each specific area of site, building or portion thereof. Arrange such phasing dates to ensure accomplishment of this work in successive phases mutually agreeable to CO and Contractor, as shown on the drawings.
 - H. All Buildings connected to the steam loop, with the exception of Quarters 2,3,4 and 5, will be occupied during performance of work. Contractor shall take all measures and provide all material necessary for protecting existing equipment and property in affected areas of construction against dust and debris, so that equipment and affected areas to be

used in the Medical Center's operations will not be hindered. Contractor shall permit access to VA personnel and patients through construction areas which serve as routes of access to such affected areas and equipment. Coordinate alteration work in areas occupied by the VA so that Medical Center operations will continue during the construction period.

I. ***Utility Services:*** This project entails disruption of campus steam distribution. See para 1.14 for Schedule of Work phasing requirements.

1. No utility service, other than steam, such as water, gas, sewers or electricity, or fire protection systems and communications systems may be interrupted without prior approval of CO.
2. Contractor shall submit a request to interrupt any such services to CO, in writing, 3 working days in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
3. Interruptions of any utility which will impact clinical operations must be requested by the Contractor, in writing, 10 working days in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
4. Contractor will be advised (in writing) of approval of request, or of which other date and/or time such interruption will cause least inconvenience to operations of Medical Center. Interruption time approved by Medical Center may occur at other than Contractor's normal working hours.
5. Major interruptions of any system must be requested, in writing, at least 15 calendar days prior to the desired time and shall be performed as directed by the CO. Request shall state reason, date, exact time of, and approximate duration of such interruption.
6. In case of a contract construction emergency, service will be interrupted on approval of CO. Such approval will be confirmed in writing as soon as practical.

J. ***Abandoned Lines:*** All service lines such as wires, cables, conduits, ducts, pipes and the like, and their hangers or supports, which are to be abandoned but are not required to be entirely removed, shall be sealed, capped or plugged. The lines shall not be capped in finished areas, but shall be removed and sealed, capped or plugged in ceilings, within furred spaces, in unfinished areas, or within walls or partitions; so that they are completely behind the finished surfaces.

K. To minimize interference of construction activities with flow of Medical Center traffic, the Contractor shall keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles.

L. Coordinate the work for this contract with other construction operations as directed by CO. This includes the scheduling of traffic and the use of roadways, as specified in VA Specification Section 01 00 00 GENERAL REQUIREMENTS Article 1.16 "*Use of Roadways*".

1.9 ALTERATIONS

- A. **Survey:** Before any work is started, the Contractor shall make a thorough survey with the CO of areas of buildings in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by both to the CO. This report shall list by rooms and spaces:
1. Existing condition and types of resilient flooring, doors, windows, walls, and other surfaces not required to be altered throughout affected areas of building.
 2. Existence and conditions of items such as plumbing fixtures and accessories, electrical fixtures, equipment, venetian blinds, shades, etc., required by drawings to be either reused or relocated, or both.
 3. Shall note any discrepancies between drawings and existing conditions at site.
 4. Shall designate areas for working space, materials storage and routes of access to areas within buildings where alterations occur and which have been agreed upon by Contractor and CO.
- B. Any items required by drawings to be either reused or relocated or both, found during this survey to be nonexistent, or in opinion of CO to be in such condition that their use is impossible or impractical, shall be furnished and/or replaced by Contractor with new items in accordance with specifications which will be furnished by Government. Provided the contract work is changed by reason of this subparagraph B, the contract will be modified accordingly, under provisions of clause entitled "*Differing Site Conditions*" (FAR 52.236-2) and "*Changes*" (FAR 52.243-4 and VAAR 852.236-88).
- C. **Re-Survey:** Thirty days before expected partial or final inspection date, the Contractor and CO together shall make a thorough re-survey of the areas of buildings involved. They shall furnish a report on conditions then existing, of resilient flooring, doors, windows, walls, and other surfaces are compared with conditions of same as noted in first condition survey report.
- Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures, and will form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this contract.
- D. **Protection:** Provide the following protective measures:
1. Wherever existing roof surfaces are disturbed they shall be protected against water infiltration. In case of leaks, they shall be repaired immediately upon discovery.
 2. Temporary protection against damage for portions of existing structures and grounds where work is to be done, materials handled and equipment moved and/or relocated.

3. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately protected prior to starting work, and this protection shall be maintained intact until all work in the area is completed.
 4. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by CO. Blank off ducts and diffusers to prevent circulation of dust into occupied areas during construction.
 5. Temporary Barriers – Refer to VA Specification Section 01 00 10, OSHA, SAFETY AND HEALTH REQUIREMENTS Article 2.7 “*Temporary Enclosures*”.
- E. ***Disposal and Retention:*** Materials and equipment accruing from work removed and from demolition of buildings or structures, or parts thereof, shall be disposed of as follows:
1. Reserved items which are to remain property of the Government are identified by attached tags or noted on drawings or in specifications as items to be stored. Items which remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Store such items in such location as directed by CO.
 2. Items not reserved shall become property of the Contractor and be removed by Contractor from Medical Center.
 3. Items of portable equipment and furnishings located in rooms and spaces in which work is to be done under this contract shall remain the property of the Government. When rooms and spaces are vacated by the VA during the alteration period, such items which are NOT required by drawings and specifications to be either relocated or reused will be removed by the Government in advance of work to avoid interfering with Contractor’s operation.

1.10 **PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS**

- A. The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the CO.
- B. The Contractor shall protect from damage all existing improvements and utilities at or near the work site and on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting

from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the CO may have the necessary work performed and charge the cost to the Contractor. (FAR 52.236-9)

- C. Refer to VA Specification Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS, for additional requirements on protecting vegetation, soils and the environment. Refer to Articles, “Alterations”, “Restoration”, and “Operations and Storage Areas” for additional instructions concerning repair of damage to structures and site improvements.

1.11 RESTORATION

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Except as otherwise shown or specified, do not cut, alter or remove any structural work, and do not disturb any ducts, plumbing, steam, gas, or electric work without approval of the CO. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the CO before it is disturbed. Materials and workmanship used in restoration work shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
- B. Upon completion of contract, deliver work complete and undamaged. Existing work (walls, ceilings, partitions, floors, mechanical and electrical work, lawns, paving, roads, walks, etc.) disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled, or replaced with new work, and refinished and left in as good condition as existed before commencing work.
- C. At Contractor’s own expense, Contractor shall immediately restore to service and repair any damage caused by Contractor’s workmen to existing piping and conduits, wires, cables, etc., of utility services or of fire protection systems and communications systems (including telephone) which are indicated on drawings as well as any which may be discovered during execution of the contract and which are not scheduled for discontinuance or abandonment.
- D. Expense of repairs to such utilities and systems not shown on drawings or locations of which are unknown will be covered by adjustment to contract time and price in accordance with clause entitled “Changes” (FAR 52.243-4 and VAAR 852.236-88) and “Differing Site Conditions” (FAR 52.236-2).

1.12 PHYSICAL DATA – OMIT

1.13 PROFESSIONAL SURVEYING SERVICES – OMIT

1.14 SCHEDULE OF WORK

- A. All work is to be performed during the normal VA Medical Center business hours of 8:00 am to 4:30 pm, Monday through Friday or alternate schedule of 7:00 am to

**5:30 pm, Monday through Thursday with the exception of Federal Holidays.
Schedules deviating from these times shall require prior approval from the CO.**

- B. Coordination of the work areas is to be scheduled with the CO working with the COTR.
- C. The Contractor is required to submit a planned schedule a minimum of one week prior to commencement of any work.
- D. Weekly coordination meetings will be held with all crafts as scheduled by the Contractor to provide the progress of the current and proposed schedule of events and to review and or approve of temporary outages and schedule of work, which may affect the functions of the individual departments.
- E. Maximum Steam Outages Timeframes :The contractor shall perform all necessary site preparation work (excavation, site prep, material preparation), to allow a limited steam outage time for each section.
 - a. Section A – B 7 calendar days maximum
 - b. Section A – Y, 7 calendar days maximum
 - c. Section D - N, 10 calendar days maximum
 - d. Section N – S 7 calendar days maximum
- F. Maximum Road Outages Timeframes :The contractor shall perform all necessary site preparation work (excavation, site prep, material preparation), to allow a limited road outage time of 24 hours for any road crossing. The contractor shall use temporary road plating to allow road use between road closure periods. Roadway closure for segment adjacent to Bldg 77 (loop D – N) shall be scheduled after normal business hours. This road closure constraint does not apply to section A – Y.

1.15 AS- BUILT DRAWINGS

- A. The contractor shall maintain two full size sets of as-built drawings which will be kept current during construction of the project, to include all contract changes, modifications and clarifications.
- B. All variations shall be shown in the same general detail as used in the contract drawings. To insure compliance, as-built drawings shall be made available for the Resident Engineer's review, as often as requested.
- C. Contractor shall deliver two approved completed sets of as-built drawings to the Resident Engineer within 15 calendar days after each completed phase and after the acceptance of the project by the Resident Engineer.
- D. Paragraphs A, B, & C shall also apply to all shop drawings.

1.16 USE OF ROADWAYS

For hauling, use only established public roads and roads on Medical Center property and, when authorized by the CO, such temporary roads which are necessary in the performance of contract

work. Temporary roads shall be constructed by the Contractor at Contractor's expense. When necessary to cross curbing, sidewalks, or similar construction, they must be protected by well-constructed bridges.

1.17 RESIDENT ENGINEER'S FIELD OFFICE – OMIT

1.18 TEMPORARY USE OF MECHANICAL AND ELECTRICAL EQUIPMENT - OMIT

1.19 TEMPORARY USE OF EXISTING ELEVATORS

Use of existing elevators for handling building materials and Contractor's personnel will be permitted subject to following provisions:

- A. Contractor makes all arrangements with the CO for use of elevators.
- B. Contractor covers and provides maximum protection of following elevator components:
 - 1. Entrance jambs, heads soffits and threshold plates.
 - 2. Entrance columns, canopy, return panels and inside surfaces of car enclosure walls.
 - 3. Finish flooring.
- C. Government will accept hoisting ropes of elevator and rope of each speed governor if they are worn under normal operation. However, if these ropes are damaged by action of foreign matter such as sand, lime, grit, stones, etc., during temporary use, they shall be removed and replaced by new hoisting ropes.
- D. If brake lining of elevators are excessively worn or damaged during temporary use, they shall be removed and replaced by new brake lining.
- E. All parts of main controller, starter, relay panel, selector, etc., worn or damaged during temporary use shall be removed and replaced with new parts, if recommended by elevator inspector after elevator is released by Contractor.
- F. Place elevator in condition equal, less normal wear, to that existing at time it was placed in service of Contractor as approved by CO.

1.20 TEMPORARY USE OF NEW ELEVATORS – OMIT

1.21 TEMPORARY TOILETS

Contractor may have for use of Contractor's workmen, such toilet accommodations as may be assigned to Contractor by Medical Center. Contractor shall keep such places clean and be responsible for any damage done thereto by Contractor's workmen. Failure to maintain satisfactory condition in toilets will deprive Contractor of the privilege to use such toilets.

1.22 AVAILABILITY AND USE OF UTILITY SERVICES

- A. The Government shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. The Contractor shall carefully conserve any utilities furnished without charge.
- B. The Contractor, at Contractor's expense and in a workmanlike manner satisfactory to the CO, shall install and maintain all necessary temporary connections and distribution lines. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, and associated paraphernalia.
- C. Electricity (for construction and testing): Furnish all temporary electric services. Obtain electricity by connecting to the Medical Center electrical distribution system. Electricity for all other uses is available at no cost to the Contractor.
- D. Water (for construction and testing): Furnish temporary water service.
 - 1. Obtain water by connecting to the Medical Center water distribution system. Provide reduced pressure backflow preventer at each connection. Water is available at no cost to the Contractor.
 - 2. Maintain connections, pipe, fittings and fixtures and conserve water-use so none is wasted. Failure to stop leakage or other wastes will be cause for revocation (at CO's discretion) of use of water from Medical Center's system.

1.23 NEW TELEPHONE EQUIPMENT – OMIT

1.24 TESTS

- A. Pre-test mechanical and electrical equipment and systems and make corrections required for proper operation of such systems before requesting final tests. Final test will not be conducted unless pre-tested.
- B. Conduct final tests required in various sections of specifications in presence of an authorized representative of the CO. Contractor shall furnish all labor, materials, equipment, instruments, and forms, to conduct and record such tests.
- C. Mechanical and electrical systems shall be balanced, controlled, and coordinated. A system is defined as the entire complex which must be coordinated to work together during normal operation to produce results for which the system is designed. For example, air conditioning supply air is only one part of entire system which provides comfort conditions for a building. Other related components are return air, exhaust air, steam, chilled water, refrigerant, hot water, controls and electricity, etc.

Another example of a complex which involves several components of different disciplines is a boiler installation. Efficient and acceptable boiler operation depends upon the coordination and proper operation of fuel, combustion air, controls, steam, feed water, condensate and other related components.

- D. All related components as defined above shall be functioning when any system component is tested. Tests shall be completed within a reasonably short period of time during which operating and environmental conditions remain reasonably constant.
- E. Individual test result of any component, where required, will only be accepted when submitted with the test results of related components and of the entire system.

1.25 INSTRUCTIONS

- A. Contractor shall furnish Maintenance and Operating manuals and verbal instructions when required by the various sections of the specifications and as hereinafter specified.
- B. **Manuals:** Maintenance and operating manuals (four copies each) for each separate piece of equipment shall be delivered to the CO coincidental with the delivery of the equipment to the job site. Manuals shall be complete, detailed guides for the maintenance and operation of equipment. They shall include complete information necessary for starting, adjusting, maintaining in continuous operation for long periods of time and dismantling and reassembling of the complete units and sub-assembly components. Manuals shall include an index covering all component parts clearly cross-referenced to diagrams and illustrations.

Illustrations shall include “exploded” views showing and identifying each separate item. Emphasis shall be placed on the use of special tools and instruments. The function of each piece of equipment, component, accessory and control shall be clearly and thoroughly explained.

All necessary precautions for the operation of the equipment and the reason for each precaution shall be clearly set forth. Manuals must reference the exact model, style and size of the piece of equipment and system being furnished. Manuals referencing equipment similar to but of a different model, style, and size than that furnished will not be accepted.

- C. **Instructions:** Contractor shall provide qualified, factory-trained manufacturers’ representatives to give detailed instructions to assigned VA personnel in the operation and complete maintenance for each piece of equipment. All such training will be at the job site. These requirements are more specifically detailed in the various technical sections. Instructions for different items of equipment that are component parts of a complete system shall be given in an integrated, progressive manner. All instructors for every piece of component equipment in a system shall be available until instructions for all items included in the system have been completed.

This is to assure proper instruction in the operation of inter-related systems. All instruction periods shall be at such times as scheduled by the CO and shall be considered concluded only when the CO is satisfied in regard to complete and thorough coverage. The VA reserves the right to request the removal of, and substitution for, any instructor who, in the opinion of the CO, does not demonstrate sufficient qualifications in accordance with requirements for instructors above.

1.26 GOVERNMENT-FURNISHED PROPERTY – OMIT

1.27 RELOCATED EQUIPMENT AND ITEMS

- A. Contractor shall disconnect, dismantle as necessary, remove and reinstall in new location, all existing equipment and items indicated by symbol “R” or otherwise shown to be relocated by the Contractor.
- B. Perform relocation of such equipment or items at such times and in such a manner as directed by the CO.
- C. Suitably cap existing service lines, such as steam, condensate return, water, drain, gas, air, vacuum and/or electrical, whenever such lines are disconnected from equipment to be relocated. Remove abandoned lines in finished areas and cap as specified herein. Refer to VA Specifications Section 01 00 00, GENERAL REQUIREMENTS Article 1.8, Operations and Storage Areas, Paragraph J “*Abandoned Lines*”.
- D. Provide all mechanical and electrical service connections, fittings, fastenings and any other materials necessary for assembly and installation of relocated equipment; and leave such equipment in proper operating condition.

1.28 STORAGE SPACE FOR DEPARTMENT OF VETERANS AFFAIRS EQUIPMENT – OMIT

1.29 CONSTRUCTION SIGN

Refer to VA Specification Section 01 00 10 OSHA, SAFETY AND HEALTH REQUIREMENTS Article 2.19 “*Signs*”.

1.30 SAFETY SIGN

Refer to VA Specification Section 01 00 10 OSHA, SAFETY AND HEALTH REQUIREMENTS Article 2.19 “*Signs*”.

1.31 CONSTRUCTION DIGITAL IMAGES

- A. Construction photographs may be used as a tool for recording existing conditions, progression of work, final installation, etc.
- B. Photographs taken on the VA Medical Center property by the Contractor or their representatives shall be limited to designated work areas and be applicable to the execution of the contract.
- C. When taking photographs, privacy and confidentiality of VA personnel, patients and visitors shall be maintained at all times. Care must be taken such that construction photographs shall not include images of VA personnel, patients, or visitors.

1.32 FINAL ELEVATION DIGITAL IMAGES – OMIT

1.33 HISTORIC PRESERVATION

Where the Contractor or any of the Contractor's employees, prior to, or during the construction work, are advised of or discover any possible archeological, historical and/or cultural resources, the Contractor shall immediately notify the CO verbally, and then with a written follow-up.

1.34 CONSTRUCTION SAFETY

Refer to VA Specification Section 01 00 10 OSHA, SAFETY AND HEALTH REQUIREMENTS

1.35 ACCESS BADGES

- A. The contractor will need to complete the VA required PIV identification process prior to onsite work being started. The Contractor and all workmen on VA property for the execution of the contract shall be issued and wear a VA Contractor Badge at all times.
- B. Each individual will be asked to provide a State issued photo ID such as a Drivers License the first time they are issued a Contractor Badge. A photocopy of this ID will be kept on file by the VA along with a record of employer, badge number, and date of issue.
- C. The recipient of the Contractor Badge is responsible for the badge at all times. If a Contractor Badge is found to be missing, notify the CO for security, and re-issuance of a new badge. A person not wearing their Contractor Badge may be detained for verification of identity and employment.
- D. The Contractor shall be responsible to ensure that badges issued to ALL workmen are returned upon completion of work.

1.36 KEY CONTROL

Contact the CO for access to locked areas. Construction keys may be issued if required. All construction keys issued shall be accounted for and returned at completion of work.

1.37 PARKING & MATERIAL DELIVERY

- A. The Contractor's parking must be pre-arranged with the CO. All Contractors' vehicles shall be clearly labeled with the firm's name. All employees' personal vehicles shall be parked in accordance with the VA Medical Centers Memorandum 04-SA-31, Parking & Traffic Regulations. See Attachment.
- B. The Contractor shall be solely responsible for accepting delivery of contract related freight or construction materials. Delivery shall be made to the Contractor's designated staging area or temporary field office. All deliveries shall be pre-coordinated between the Contractor and the freight delivery agent. The delivery agent should be provided with contact information for the Contractor's representative and designated delivery points. The Contractor shall make freight delivery arrangements that do not impact the VA

Warehouse as a delivery point. VA personnel will not accept responsibility for acceptance of or handling and storage of Contractor's freight or construction materials.

1.38 RECYCLING AND WASTE MANAGEMENT

- A. The Contractor shall be liable for all refuse generated from each construction project and the cost incurred thereof.
- B. The Government is required to exert all reasonable measures to recycle all construction materials, whether in construction, remodel or demolition projects. All surplus, excess, or reclaimed materials shall be disposed of in a manner to promote recycling, and to limit the amount of material delivered to landfills.
- C. The Contractor shall provide a monthly report itemizing the distribution of all refuse generated from the construction project. At a minimum, this report shall include the material type (i.e.: general waste, mixed metal, copper, aluminum, wood, concrete, etc.), place of disposal or salvage (i.e.: landfill, scrap metal dealer, composting, etc.), and weight of each type of refuse material.

SECTION 01 00 10
OSHA, SAFETY AND HEALTH REQUIREMENTS

TABLE OF CONTENTS

1.1	General OSHA Requirements
2.1	Specific VA Requirements
2.2	Hazard Communications
2.3	Fire Reporting
2.4	Fire Alarms and Sprinklers
2.5	Smoke Detectors
2.6	Hot Work
2.7	Temporary Enclosures
2.8	Flammable Liquids
2.9	Compressed Gas Cylinder
2.10	Internal Combustible Engine Powered Equipment
2.11	Power Activated Tools
2.12	Tools
2.13	Ladders
2.14	Scaffolds
2.15	Excavations
2.16	Storage
2.17	Trash and Debris
2.18	Protection of Floors
2.19	Signs
2.20	Accidents and Injuries
2.21	Infection Control
2.22	Confined Space

PART 1 - OSHA Requirements.

1.1 GENERAL

- A. The Contractor is required to comply with the Occupational Safety and Health Act of 1970. This will include the safety and health standard found in Code of Federal Regulations (CFR) 1910 and 1926. Copies of those standards can be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20420.
- B. In addition, the Contractor shall be required to comply with other applicable Medical Center policies and safety regulations. These policies and regulations will be presented to the Contractor at the pre-construction meeting. Each of the Contractor's employees will be required to read the statement of policies and regulations, and sign an acknowledgment that such policies and regulations are understood.
- C. The Contractor shall submit a copy of their Safety Plan to the Contracting Officer Technical Representative for review prior to the commencement of work, as it pertains to the general scope of work for this construction project. The Contractor involved with the removal, alteration or disturbance of asbestos-type insulation or materials or lead paint shall be required to comply strictly with the regulations found in CFR 1910.1001 and the appropriate Environmental Protection Agency (EPA) lead regulations regarding disposal of asbestos or lead paint. Assistance in identifying asbestos or lead can be requested from the Medical Center's Industrial Hygienist and the CO.
- D. The Contractor entering locations of asbestos contamination or lead paint residue (i.e., pipe, basements, walls, windows) shall be responsible for providing respiratory protection to their employees and ensuring respirators are worn in accordance with the Occupational Safety and Health Administration (OSHA) [CFR 1910.1001(g)]. Employees entering these areas will be medically evaluated and properly fit-tested for their respirators. Asbestos-or lead paint-contaminated areas shall be defined on project drawings. The minimum equipment requirements will be a half-mask air-purifying respirator equipped with high efficiency filters and disposable coveralls, or as determined by air monitoring results.
- E. The Contractor, along with other submittals and at least two weeks prior to bringing any materials on-site, shall submit a complete list of chemicals the Contractor will use and Material Safety Data Sheets (MSDS) for all hazardous materials as defined in OSHA 1910.1200(d), Hazard Determination. CO shall have final approval of all materials brought on site.
- F. The Contractor shall be held solely responsible for the safety and health of their employees. The contractor shall also be held responsible for protecting the health and safety of the VA Community (patients, staff, and visitors) from the unwanted effects of construction. VA staff will monitor the Contractor's performance in complying with all safety and health aspects of the project. Severe or constant violations may result in an immediate work stoppage or request for a Compliance Officer from the Occupational Safety and Health Administration.

- G. During all phases of demolition, construction and alterations, The Contractor shall understand and strictly follow the latest edition of National Fire Protection Association (NFPA) 241, Standard for Safeguarding Construction, Alteration and Demolition Operations. The Medical Center's Safety and Occupational Health Specialist or Industrial Hygienist will closely monitor the work area for compliance. Appropriate action will be taken for non-compliance.

PART 2 - Specific VA Medical Center Fire and Safety Policies, Procedures and Regulations

Also refer to VA Specifications Section 01 00 00 GENERAL REQUIREMENTS Article 1.7, *Fire Safety Precautions*.

2.1 INTRODUCTION

- A. The safety and fire protection of patients, employees, members of the public and government is one of continuous concern to this Medical Center.
- B. The Contractor, their supervisors and employees shall comply with Medical Center policies to ensure the occupational safety and health of all. Failure to comply may result in work stoppage.
- C. While working at this Medical Center, the Contractor is responsible for the occupational safety and health of their employees. The Contractor shall comply with the applicable OSHA standards found in 29 CFR 1910 for general industry and 29 CFR 1926 for construction. Failure to comply with these standards may result in work stoppage and a request to the Area Director of OSHA for a Compliance Officer to inspect your work site.
- D. The Contractor shall comply with the requirements found in the latest edition of National Fire Protection Association (NFPA) 241, Building Construction and Demolition Operation, and NFPA 51B, Fire Prevention in Use of Cutting and Welding Processes.
- E. Questions regarding occupational safety and health issues can be addressed to the Medical Center Safety and Occupational Health Specialist (509-240-6991).
- F. Smoking is not permitted in any interior areas of the Medical Center, including all interior stairwells, tunnels, construction and/or service/maintenance sites, nor within distance where the smoke may enter into a building through a window or doorway. *(Note: This includes interior posted patient smoking areas, if applicable)*. Compliance with this policy by your direct and subcontracted labor force is required and violations are subject to a federal fine by the VA Police.
- G. The Contractor shall appoint a Competent Person: (OSHA Definition) One who is capable of identifying existing or predictable hazards in the surroundings and working conditions which are unsanitary, hazardous or dangerous to employees, and who has the authorization to take prompt corrective measures to eliminate them. The Contractor's Competent Person shall be directly responsible for the health and safety of their employees and the protection of the work environment, including sub-contractors. All contractor and subcontractor personnel are responsible for compliance with applicable local, state, federal and VA safety and health regulations.

- H. USE OF EXPANDABLE FOAM SEALANT IS PROHIBITED UNLESS APPROVED BY CO.
- I. The Contractor's and sub-contractor's workmen shall have attended a minimum of a 10 hour OSHA Construction Safety course, or equivalent to their specific trade. Exemptions may be made if approved by the CO.
 - 1. SUBMITTALS: Documentation of the Contractor safety training, names, dates, and type of course.

2.2 HAZARD COMMUNICATION

- A. The Contractor shall comply with OSHA Standard 29 CFR 1926.59, Hazard Communication.
- B. The Contractor shall submit to the VA Safety Officer, copies of MSDS covering all hazardous materials to which the Contractor and VA employees are exposed.
- C. The Contractor shall inform the Safety Officer of the hazards to which VA personnel and patients may be exposed.
- D. The Contractor shall have a written Hazard Communication Program available at the construction site, which details how the Contractor will comply with 29 CFR 1926.59.

2.3 FIRES

- A. All fires must be reported. In the event of a fire in your work area, use the nearest pull box station, and notify Medical Center staff in the immediate area.
- B. **Emergency notification can also be accomplished by dialing ext. 22222, from a station phone, be sure to give the exact location from where you are calling and the nature of the emergency.**
- C. If you use a cell phone to call 911, be sure to give Operator the exact location from where you are calling and the nature of the emergency.
- D. If the Contractor experiences a fire that was rapidly extinguished by their workmen, the Contractor still must notify the Safety Officer 509-240-6991 within one hour of the event so that an investigation of the fire can be accomplished.

2.4 FIRE ALARMS, SMOKE DETECTION AND SPRINKLER SYSTEM

- A. Existing fire protection systems including fire alarm systems, smoke detection systems, and sprinkler systems shall not be impaired during construction, except for devices in the immediate construction areas vacated by VA.
- B. Installation of sprinkler systems, standpipe systems, fire hydrants, and fire alarm systems, shall be given priority and placed into service as soon as practical.

- C. If the nature of your work requires the deactivation of the fire alarm, smoke detection or sprinkler system, you must notify the Safety Office. Written notification must be made 10 working days prior to deactivation to provide ample time to deactivate the system and provide alternative measures for fire protection.
- D. **Under no circumstance is the Contractor allowed to deactivate any of the fire protection systems in this Medical Center.**

2.5 SMOKE DETECTORS

- A. All necessary precautions shall be taken by the contractor to prevent accidental operation of any existing smoke detectors by minimizing the amount of dust generated in the vicinity of any smoke detectors. **False alarms will not be tolerated.** You are required to be familiar with the location of the smoke detectors in your work area.
- B. When performing cutting, burning or welding or any other operations that may cause smoke or dust, you must take steps to temporarily cover smoke detectors in order to prevent false alarms.
- C. Prior to covering the smoke detectors, the Contractor shall notify the Safety Officer, who will also be notified when the covers are removed.
- D. Failure to take the appropriate action will result in the CO assessing actual costs for government response for each false alarm that is preventable.

2.6 HOT WORK PERMIT

- A. Hot work is defined as operations including, but not limited to, cutting, welding, thermal welding, brazing, soldering, grinding, thermal spraying, thawing pipes or any similar situation. If such work is required, whenever possible the Contractor shall notify the CO no less than one day in advance of such work. The CO will inspect the work area and issue a Hot Work Permit, authorizing the performance of such work.
- B. All hot work will be performed in compliance with the Medical Center's policy regarding Hot Work Permits and the latest editions of NFPA 241, Safeguarding Construction, Alteration and Demolition Operations; and NFPA 51B, Fire Prevention in Use of Cutting and Welding Processes; and applicable OSHA standard. A hot work permit will only be issued to individuals familiar with these regulations.
- C. A Hot Work Permit will be issued only for the period necessary to perform such work. In the event the time necessary will exceed one day, a Hot Work Permit may be issued for the period needed; however, the Contractor Construction Superintendent shall inspect the area daily. The Hot Work Permit will apply only to the location identified on the permit. If additional areas involve hot work, then additional permits must be requested.
- D. The Contractor shall not be allowed to perform hot work processes without the appropriate permit.

- E. Any work involving the Medical Center's fire protection system will require 24 hour notification. Under no circumstance will the Contractor or employee attempt to alter or tamper with the existing fire protection system.
- F. The CO will be notified within 30 minutes of the completion of all hot work to perform an inspection of the area to confirm that sparks or drops of hot metal are not present.
- G. Precautions to be taken
 - 1. Sprinklers are in service where installed
 - 2. Cutting and welding equipment in good repair
 - 3. Within 10.5M (35 feet); floors swept clean of combustibles, no combustible material or flammable liquids, all wall and floor openings covered, and covers suspended beneath work to collect sparks
 - 4. When working on enclosed equipment and in confined space, equipment and area is free of flammable vapors
 - 5. Fire watch provided during and 30 minutes after operation (60 minutes for torch applied roofing operations)
 - 6. Portable fire extinguisher with adequate rating available in the immediate vicinity
 - 7. Standpipe system in service where installed
 - 8. Protection of any sprinkler heads when hot work is in close proximity
 - 9. Smoking prohibited in immediate vicinity
 - 10. Non-combustible shields provided when hot work is done near combustible walls, partitions, floors, roofs
 - 11. Prohibition of hot work on pipes contacting combustible walls
 - 12. Personnel trained in use of equipment including portable fire extinguishers and sounding a fire alarm
 - 13. Final check-up conducted after 30 minutes

2.7 TEMPORARY ENCLOSURES AND PARTITIONS

A partition is a rigid surface enclosure. A barrier is a non-rigid enclosure. Temporary construction partitions or barriers of noncombustible materials shall be installed as required to provide a separation between the areas that are described in phasing requirements and adjoining areas that are occupied by VA personnel or patients. Only non-combustible materials will be used to construct temporary enclosures or barriers at this Medical Center. Plastic materials and fabrics used to construct dust barriers must conform to the latest edition of NFPA 701, Standard Methods of Fire Tests for Flame-Resistant Textiles and Films. Partitions and barriers shall be sealed to existing building surface to prevent construction dust from entering adjoining non-constructions areas of buildings.

- A. The partitions shall be constructed of either gypsum board or treated plywood (flame spread rating of 25 or less in accordance with ASTM E84) on both sides of wood or steel studs. The partitions shall extend through suspended ceilings to the floor slab or roof above. The partitions shall be cut to fit around pipes, ducts, conduit, joists, etc. The penetrations shall be sealed with sealant, or mineral fiber insulation. Joints shall be taped and sealed. Doors in the partitions shall be solid core wood doors and shall be provided with self-closing devices. Clearance between the doors and frame or partition shall not exceed 3 mm (1/8 inch); door undercuts shall not exceed 19 mm (3/4 inch).

- B. When temporary partitions separating occupied areas from construction areas coincide with, or intersect with exit passageways, horizontal exits, stair shafts, exit enclosures, smoke barriers, fire barriers enclosing hazardous areas, or any other type of partition or assembly that is required by the latest edition of NFPA 101 to have a fire-resistance rating, the integrity of the existing fire-rated construction shall be maintained at all times during construction.
- C. When it is necessary to remove portions of, or an entire fire-rated assembly that is to remain as part of the completed project, the removed construction shall be replaced by an assembly with an equivalent or higher fire-resistance rating. Replacement shall be given priority over other construction features.
- D. Penetrations of existing fire-rated assemblies resulting from construction operations shall be sealed with a through-penetration firestop system which is listed for protection of the penetrating item and the type of barrier penetrated. **EXPANDABLE FOAM SHALL NOT BE USED FOR ANY WORK WITHOUT APPROVAL OF THE CO.**

2.8 **FLAMMABLE LIQUIDS**

All flammable liquids shall be handled, stored, and used in accordance with the latest edition of NFPA Standard No. 30. All flammable liquids will be kept in approved safety containers. Only the amount necessary for your immediate work will be allowed in the building. Flammable liquids must be removed from the building at the end of each day.

2.9 **COMPRESSED GAS CYLINDERS**

Compressed gas shall be secured in an upright position at all times. A suitable cylinder cart will be used to transport compressed gas cylinders. Only those compressed gas cylinders necessary for immediate work will be allowed in occupied buildings. All other compressed gas cylinders will be stored outside of buildings in a designated area. The Contractor shall comply with applicable standards compressed gas cylinders found in 29 CFR 1910 and 1926 (OSHA).

2.10 **INTERNAL COMBUSTION ENGINE-POWERED EQUIPMENT**

Equipment powered by an internal combustion engine (such as saws, compressors, generators, etc.) will not be used in an occupied building. Special consideration may be given for unoccupied buildings only if the OSHA and NFPA requirements have been met.

2.11 **POWDER-ACTIVATED TOOLS**

The operator of powder-activated tools shall be trained and certified to use them. Powder-activated tools will be kept secured at all times. When not in use, the tools will be locked up. When in use, the operator shall have the tool under his immediate control.

2.12 **TOOLS**

- A. Under no circumstances will equipment, tools and other items of work to be left unattended for any reason. All tools, equipment and items of work shall be under the immediate control of the Contractor employees.
- B. If for some reason a work area must be left unattended, then tools and other equipment must be placed in an appropriate box or container and locked. All tool boxes, containers or any other device used for the storage of tools and equipment will be provided with a latch and padlock, and shall be kept locked at all times, except for putting in and removing tools.
- C. All doors to work areas shall be closed and locked at all times. Failure to comply with this policy will be considered a violation of VA Regulations 1.218(b), Failure to comply with signs of a directive and restrictive nature posted for safety purposes, and subject to a \$50.00 fine. Subsequent similar violations may result in both imposition of such a fine as well as the CO taking action under the contract's Accident Prevention Clause [Federal Acquisition Regulation (FAR) 52.236-13] to suspend all contract work until violations may be satisfactorily resolved, or under FAR 52.236-5, Material and Workmanship Clause, to remove from the worksite any personnel deemed by the CO to be careless to the point of jeopardizing the welfare of facility patients or staff.
- D. You must report to the VA Police Department, 509-527-6135, any tools or equipment that are missing.
- E. Tools and equipment found unattended will be confiscated and removed from the work area.

2.13 **LADDERS**

Ladders shall not be left unattended in an upright position. Ladders shall be attended at all times or taken down, and chained securely to a stationary object.

2.14 **SCAFFOLDS**

All scaffolds shall be attended at all times. When not in use, an effective barricade (fence) shall be erected around the scaffold to prevent use by unauthorized personnel (Reference OSHA 1926, Subpart L).

2.15 **EXCAVATIONS**

The Contractor shall comply with OSHA 1926, Subpart P. An OSHA Competent Person must be on site during the excavation. The Contractor shall coordinate with the CO and utility companies prior to the excavation to identify underground utilities tanks, etc. All excavations left unattended shall be provided with a barricade suitable to prevent entry by unauthorized persons.

2.16 **STORAGE**

The Contractor must make prior arrangements with the CO for the storage of building materials. Storage shall not be allowed to accumulate in the Medical Center buildings.

2.17 **TRASH AND DEBRIS**

The Contractor shall remove all trash and debris from the work area on a daily basis. Trash and debris shall not be allowed to accumulate inside or outside of the buildings. The Contractor shall be responsible for making arrangements for removal of trash from the Medical Center facility.

2.18 **PROTECTION OF FLOORS**

It may be necessary at times to take steps to protect floors from dirt, debris, paint, etc. A tarp or other protective covering may be used. However, the contractor shall maintain a certain amount of floor space for the safe passage of pedestrian traffic. Common sense must be used in this matter.

2.19 **SIGNS**

The Contractor shall install 8.5 X 11 inch "Construction Area - Authorized Personnel Only" signs at all access points to construction area. Signs must be placed at the entrance to work areas warning people of your work. Signs shall be suitable for the condition of the work. Small pieces of paper with printing or writing are not acceptable. The VA Medical Center (VAMC) Safety Officer or CO can be consulted in this matter.

2.20 **ACCIDENTS AND INJURIES**

The Contractor shall report all accidents and injuries involving their employees IAW Code of Federal Regulations (CFR) 1910 and 1926, and to the VA Safety Officer at 509-240-6991.

2.21 **INFECTION CONTROL**

The Contractor shall control the generation of dust and the contamination of patient care surfaces, supplies and equipment. The Infection Control Program should be an active part of any site construction activity, regardless of how minor the project may be. It is vitally important to the facility, patients, staff and construction personnel that everyone be oriented to the facility Infection Control Policy. Generation of dust is of major concern within staff and especially in patient occupied buildings. Where operations involve the generation of dust, all efforts will be directed at reducing airborne generated dust to the lowest level feasible. Site watering during excavation and backfilling shall be done repeatedly to minimize dust.

2.22 **CONFINED SPACE ENTRY**

- A. The Contractor will be informed that the workplace contains permit-required confined space, and that permit-space entry is allowed only through compliance with a permit space program meeting the requirements of 29 CFR 1910.146 and 1926.21(b)(6).

- B. The Contractor will be apprised of the elements including the hazards identified and the Medical Center's (last employer) experience with the space that makes the space in question a permit space.
- C. The Contractor will be apprised of any precautions or procedures that the Medical Center has implemented for the protection of employees in or near permit space where Contractor personnel will be working.
- D. Medical Center and the Contractor will coordinate entry operations when both Medical Center personnel and Contractor personnel will be working in or near permit spaces as required by 29 CFR 1910.146(d)(ii) and 1926.21(b)(6).
- E. The Contractor shall obtain any available information regarding permit space hazards and entry operation from the Medical Center.
- F. At the conclusion of the entry operations, the Medical Center and the Contractor will discuss any hazards confronted or created in permit spaces.
- G. The Contractor shall be responsible for complying with 29 CFR 1910.246(d) through (g) and 1926.21(b)(6). The Medical Center, upon request, will provide rescue and emergency services required by 29 CFR 1910.246(k) and 1926.21(b)(6).

--- END ---