

SECTION 01 01 10
MEDICAL CENTER REQUIREMENTS

PART 1 GENERAL

1.0 GENERAL INTENTION: This section pertains to station policy for construction projects performed at the VA Pittsburgh Health Care System. Safety and health concerns are taken seriously. Both our staff and yours are expected to strictly adhere to the regulations and requirements. This is exceedingly important, since we must be primarily concerned for the safety of our patients. In this regard, OSHA Standards may protect worker safety and health, but they have minimal benefit for protecting the safety and health of our patients, due primarily to their differing medical conditions. Review this information as orientation with your personnel performing work on site. Where the requirements as outlined in this and other specification sections are differing, the more stringent and beneficial to the VA Pittsburgh Healthcare System shall apply.

1.1 RELATED SPECIFICATIONS:

None

2.0 REQUIREMENTS

- A. Security:
 - 1. Secure all construction areas, especially mechanical and electrical rooms against entry of unauthorized individuals including patients.
 - 2. Notify the COR for permission to work after hours and weekends. Standard work hours for the medical center are Monday – Friday, 7:00 a.m. to 4:30 p.m.
 - 3. All contractors will wear and display VA contractor badges provided by the VA Police Department.
- B. Key Security:
 - 1. Only a limited number of keys will be issued to the contractor.
 - 2. If the Contractor loses a key, all areas that are keyed to that key will be re-keyed at the Contractor's expense at a charge of \$50 per key and \$50 per change, and all new keys required to be issued will be completed at the Contractor's expense.
 - 3. Ensure all doors leading to and from the construction areas are locked at all times to prevent access to the area from unauthorized persons.
- C. General Safety:
 - 1. Follow all federal, state and local safety and health regulations.
 - 2. Maintain safety in the construction site/area in accordance with the provisions of the contract, which includes the OSHA Regulations, National Electrical Codes. NFPA 70, National Electric Code and NFPA 101, Life Safety Code. Work in a safe manner and take all proper precautions while performing your work. Extra precautions shall be taken when working around persons occupying the building during construction.
 - 3. Provide Personal Preventive Equipment (PPE) for your employees.
 - 4. Post appropriate signs in specific hazardous areas. Contractor to post construction warning signs at each entrance to area.
 - 5. Keep tools, ladders, etc. away from patients to prevent injuries.
- D. Safety Inspections: The professional Occupational Safety & Health staff at this facility will perform Safety inspections of all contract operations. Written reports of unsafe practices or conditions will be reported to the Contracting Officers Representative (COR) and Contracting Officer for immediate attention and resolution.

- E. Fire Alarms:
 - 1. The fire alarm system connects all buildings at this facility, and is activated by various heat, duct, manual pull stations, and smoke sensors. Manual pull stations are provided at each entrance. Please survey the area in which you are working to locate the manual pull stations.
 - 2. If in the event of a fire alarm sounding, you are to remain in your area, unless medical center personnel (Safety, Nursing or Engineering) instruct otherwise or unless a fire situation is in your area, in which case you should immediately evacuate.
 - 3. Any work involving the fire protection systems will require written permission to proceed from the COR. **DO NOT tamper with or otherwise disturb any fire alarm system components without prior written permission. To do so without written permission will result in an adverse action.**
- F. Hazardous Materials:
 - 1. Many of the operations you are scheduled to perform may involve the use of hazardous materials prior to bringing hazardous materials on site, all Material Safety Data Sheets will be submitted through the COR for evaluation by the facilities Industrial Hygienist/Safety Representative.
 - 2. Storage of hazardous materials within buildings will be minimal with only enough on hand to perform daily work tasks. Flammable materials will either be removed from buildings at the end of the work shift or stored in approved flammable storage containers.
 - 3. Care must be taken to assure adequate ventilation to remove vapors of hazardous materials in use. Many of the patients being cared for in the facility are susceptible to environmental contaminants, even when odors seem minimal. You will isolate those areas where vapors are produced and ventilate to the most extent possible to reduce the number of complaints.
 - 4. When chemicals become odorous, the Safety Office should be contacted immediately, i.e., adhesive remover used to remove glue, so employees in adjacent areas can be notified.
- G. Airborne Dust Control During Construction:
 - 1. 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. This may be accomplished by a number of methods. These include misting the area with water, or use of tools attached to high efficiency particulate air (HEPA) filtering vacuums.
 - 2. Classification of Jobs – See COR for Construction and Safety ICRA Policy(EC-051)
- H. Construction Barriers
 - 1. Install and maintain temporary construction partitions to provide smoke-tight separations between construction areas, other areas that are described in phasing requirements, and all adjoining areas. Construct partitions of gypsum board or treated plywood (flame spread rating of 25 or less in accordance with ASTM E84) on both sides of fire retardant treated wood or metal steel studs. Extend the partitions through suspended ceilings to floor slab deck or roof. Seal joints and penetrations. At door openings, install Class C, ¾ hour fire/smoke rated doors with self-closing devices.
 - 2. No Plastic will be used in separating construction area from Medical Center.
- I. Contact with Asbestos Containing Materials:

1. Due to the age of our buildings, many contain asbestos containing materials (ACM). Primary ACM uses in the medical center include floor tile, mastic, piping and HVAC insulation. The medical center has performed a comprehensive asbestos survey and has identified accessible ACM. Some areas contain damaged asbestos and should not be accessed without prior abatement.
 2. The most common type of ACM insulation you may encounter includes thermal system insulation (TSI) and vinyl asbestos tile floor (VAT). ACM TSI is generally covered with a cloth wrap or lagging and the asbestos substrate generally appear white in color. **DO NOT SAND, DRILL, GOUGE, OR OTHERWISE DISTURB THIS TYPE OF INSULATION.** Contractors disturbing or releasing asbestos containing materials will be liable for all damages and cleanup costs.
 3. Where disturbance of asbestos is likely, it has been addressed in the contract for removal. If contact with the presence of asbestos is presented, stop all work in the immediate area and immediately contact the COR and the Industrial Hygienist/Safety Office to make necessary arrangements for removal.
 4. In some areas, asbestos insulation has been identified on elbows between fiberglass piping insulation as patching materials among the fiberglass insulation. Fiberglass insulation used in this facility is usually yellow or pink in color, wrapped either by cloth or paper lagging.
 5. To protect and ensure all your employees are aware that asbestos containing materials have been used in the construction of this facility, you are required to have them review this section and complete the awareness statement included as Attachment A. Once this documentation has been signed by all employees, forward to the COR for documentation.
 6. A complete assessment of asbestos materials and conditions are available for viewing by contacting the facilities Industrial Hygienist at 412-360-3704, or the Safety Representative at Highland Drive at 412-954-4899. Prior to performing work above any ceiling or starting in a new area, consult with the COR concerning existing conditions of ACM.
 6. Some of the areas in the facility are identified as restricted areas due to condition of ACM. These are readily labeled. **DO NOT ENTER THESE AREAS** unless first contacting the COR. Entry requirements to these areas are awareness of the hazards, proper protective clothing (coveralls and respirators), and personal monitoring in accordance with OSHA requirements.
 7. Submit contractor asbestos awareness statements for all persons working on the site prior to commencing work.
- I. Environmental Protection: (See Environmental Compliance: PG-18-17)
1. It may help you to be aware of the seriousness, which the environmental protection requirements of each contract are regarded. Adherence to these requirements is subject to continuing scrutiny from the community and backed by severe penalties, such as fines and incarceration. These environmental requirements will be strictly enforced.
 2. **NO** hazardous materials will be disposed of on Government property during and after completion of the project. All waste will be hauled off-site or disposed of in contractor-owned and operated waste removal containers.
 3. A copy of all waste manifests for special or hazardous wastes will be forwarded to the COR and the Industrial Hygienist. Environmental requirements will be strictly enforced.
- J. "Permit Required" Confined Spaces:
1. Contractors performing work on this facility will follow all requirements outlined in OSHA Standards for working in confined spaces. There are numerous "permit required" confined spaces on this facility. These spaces have been identified as a confined space. Some spaces have been posted, but most of them have not due to their configuration.

2. Confined spaces are areas, which are large enough to be entered, have limited egress/exit potential, and are not designed for permanent human occupancy. If you encounter any space, which meets this definition, if it is a suspected confined space, please contact the COR and the Industrial Hygienist/Safety Office for a determination.
3. Contractors performing work in confined spaces are responsible for compliance with all applicable standards and regulations.

K. Housekeeping:

1. Protect patients and VA personnel in occupied areas from the hazards of dust, noise, construction debris and material associated with a construction environment. Keep work area clear, clean and free of loose debris, construction materials and partially installed work which would create a safety hazard or interfere with VA personnel duties and traffic.
2. Wet mop occupied areas clean and remove any accumulation of dust/debris from cutting or drilling from any surface at the end of each workday. Mops and buckets will not be provided.
3. Make every effort to keep dust and noise to a minimum at all times. Take special precautions to protect VA equipment from damage including excessive dust.
4. Maintain clear access to mechanical, electrical devices, equipment and main corridors. This will ensure access to existing systems in the event of an emergency.
5. Clean area of all construction debris and dust upon completion of demolition and/or renovation at the end of each workday.
6. During construction operations, keep existing finishes protected from damage. Cover and protect all carpets during construction. Any carpets or surfaces damaged as a result of construction activities will be replaced by the contractor and at the contractor's expense.

L. Hot Work Permits:

1. Any hot work operations including cutting, welding, thermal welding, brazing, soldering, grinding, thermal spraying, thawing pipes or any other similar activity, will require a Hot Work Permit to be obtained by the Contractor from the Safety Officer. The Contractor will be responsible for conforming to all Medical Center regulations, policies and procedures concerning Hot Work Permits as outlined below:
 - a. Prior to the performance of hot work in patient-occupied buildings, a request for a Hot Work Permit will be made to the Safety Department.
 - b. The COR and a representative from the Safety Office will inspect the area and ensure that the requirements of NFPA 241 and OSHA standards have been satisfied. The Hot Work Permit will be granted and will be posted in the immediate area of the work.
 - c. The Hot Work Permit will apply only to the location identified on the permit. If additional areas involve hot work, additional permits must be requested.
 - d. Upon completion of all hot work, the COR will be notified by the responsible individual to perform a re-inspection of the area.
2. Do not use any of the extinguishers in the medical center for standby purpose while conducting hot work. Contractors are required to supply their own Class ABC extinguishers. Medical center extinguishers are only to be used in the event of a fire.

M. Utility Shutdowns

1. Contractor shall submit a request to interrupt any such services to COR, in writing, two weeks in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption. This requirement

supercedes the General Requirements 01 00 00 Section 1.6 K.2

N. Penetration Permits

1. Contractor to complete Penetration Permit prior to commencement of any penetrations in fire rated construction barriers. Close openings in smoke barriers and fire-rated construction to maintain fire ratings. Seal penetrations with listed through-penetration firestop materials in accordance with Section 07 84 00, FIRESTOPPING.

O. Emergency Medical Services: Emergency medical services for stabilization purposes are available for contractors at this facility. For medical emergencies, dial 911 when inside any building at the University Drive, Aspinwall, and Highland Drive divisions. Report the nature of the emergency and location. The operator will dispatch in-house personnel or coordinate an outside emergency assistance based on the nature of the emergency.

P. Use of Government Owned Material and Equipment: Use of Government owned material and equipment is PROHIBITED. This includes flatbeds, etc. for delivery of materials.

Q. Superintendent Communications: At all times during the performance of this contract, the Contractors Superintendent is to be available by telephone via pager. At the beginning of the contract and prior to beginning any construction, supply the COR with the telephone pager number for the superintendent. Portable cellular phones are not to be used in any medical center buildings.

R. Parking: There will be no on-site Contractor parking. There will be no contractor staging outside of construction area. This requirement supercedes the General Requirements 01 00 00.

S. Traffic:

1. Traffic hazards are minimal at this facility. Drivers should be particularly concerned with pedestrian traffic.
2. Seat belt use is mandatory on the station.
3. Federal police officers maintain a 24-hour patrol of the area.
4. No parking/driving on sidewalks and/or grass unless authorized.

T. Smoking: No smoking is permitted in buildings or around hazardous areas. Any smoking inside a government building is subject to a fine without warning.

U. Road Closures: For any work requiring closure of a road or parking lot, the contractor will submit a request for closure in writing at least 5 days in advance for approval by the COR and the Fire Department. Contractor requiring road closures will complete a permit and forward to the COR for authorization by the Fire Department. Permits will be issued for no longer than 1 week. Multiple permits will authorize work lasting longer than 1 week.

V. Delivery of Materials: All materials to be delivered to VA loading docks will be coordinated by the contractor. VA personnel will not receive any contractor material and the contractor will meet all deliveries at the dock to ensure receipt, custody, and removal of items from the dock so not to impact hospital function. If contractor is not present on the site to receive materials in a timely manner, the delivery will be refused and sent away to free the dock space. Extension of construction time will not be granted for refusal to receive contractor materials.

W. Phasing: Contractor shall submit a schedule of approximate phasing dates on which

the Contractor intends to accomplish work in each specific area of site, building or portion thereof. Contractor shall notify the COR 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 insure accomplishment of this work in successive phases. The Medical Center Director, COR and the Contractor, prior to any work being completed, must mutually agree to this phasing schedule. Failure to comply with the dates agreed to on the phasing schedule without approved justification may result in a contract modification that benefits the government.

- X. Recycling: It is the contractors' responsibility to recycle as much of the construction by-products as possible. This would include but not be limited to steel, copper, etc. The contractor will keep a manifest of the items recycled and approximate amounts. The contractor will also make every effort to use recycled materials during the construction of the project. This will be monitored through the submittal process, but will require that the contractor manifest all recycled materials used during the course of the project.

1. Recycled content products shall be used in execution of this contract wherever such products are available.
2. The contractor shall keep a record of all recycled content products used in execution of this contract. The record shall identify recycled content products used in execution of the work with approximate quantities.
3. Contractor shall also keep a record of all wastes and by products recycled as a result of the execution of this contract. The record shall identify products recycled along with approximate quantities.
4. Contractor shall submit copies of record reflecting all recycled products used in the contract with each application for progress payment. The record shall include the types and quantities of products used. Negative reports are required.

- Y. Crane Safety: A critical lift plan is required for

1. The lift exceeds 50% of the rated capacity of the crane
2. The lift is in proximity of a high voltage line
3. The equipment being hoisted has a long-lead time, which would cause business interruption if damage occurred
4. Two cranes are to be used
5. Lift over an occupied building

If a lift is to be performed over an occupied building, a registered structural engineer contracted by the general contractor shall review and certify that the building can withstand the impact of the load being dropped on the building due to a crane or rigging failure. If the structural engineer cannot determine if the building can withstand the impact of a dropped load, or if the structural engineer determines that the building cannot withstand the impact of a dropped load, either the building areas that would be affected shall be evacuated during the lift, or the lift shall be scheduled when there will be no personnel in those areas of the building. The decision between evacuating the building or scheduling the lift for off-hours will be made by the owner's representative.

- Z. It is the contractors' responsibility to recycle as much of the construction

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