

WARD 3D PHYSICAL THERAPY RENOVATION
06-08M
VA WNY Health Care System
3495 Bailey Ave
Buffalo, New York

SECTION 01 00 00
GENERAL REQUIREMENTS

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SECTION 01 00 00
GENERAL REQUIREMENTS

1.1 GENERAL INTENTION

- A. Contractor shall completely prepare site for building operations, including demolition and removal of existing structures, and furnish labor and materials and perform work for WARD 3D PHYSICAL THERAPY RENOVATION, Project #06-08M as required by drawings and specifications.
- B. Visits to the site by Bidders may be made only by appointment with the Contracting Officer.
- C. Offices of TRM Architecture, Design & Planning, PC & IBC Engineering, PC, as Architect-Engineers, will render certain technical services during construction. Such services shall be considered as advisory to the Government and shall not be construed as expressing or implying a contractual act of the Government without affirmations by Contracting Officer or his duly authorized representative.
- D. Before placement and installation of work subject to tests by testing laboratory retained by Department of Veterans Affairs, the Contractor shall notify the COTR in sufficient time to enable testing laboratory personnel to be present at the site in time for proper taking and testing of specimens and field inspection. Such prior notice shall be not less than three work days unless otherwise designated by the COTR.
- E. All employees of general contractor and subcontractors 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.
- F. Prior to commencing work, general contractor shall provide proof that a OSHA certified "competent person" (CP) (29 CFR 1926.20(b)(2)) will maintain a presence at the work site whenever the general or subcontractors are present.
- G. Training:
 - 1. All employees of general contractor or subcontractors shall have the 10-hour OSHA certified Construction Safety course and /or other relevant competency training, as determined by VA CP with input from the ICRA team.

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2. Submit training records of all such employees for approval before the start of work.

1.2 STATEMENT OF BID ITEM(S)

- A. ITEM I, GENERAL CONSTRUCTION:
- B. Item II, HVAC
- C. Item III, PLUMBING
- D. Item IV, ELECTRICAL
- E. Item V, FIRE PROTECTION
- F. Item VI, ASBESTOS ABATEMENT

1.3 SCOPE OF WORK

The contractor shall supply all supervision, labor, equipment materials, and incidentals required to complete the work outlined in this section unless specified otherwise.

A. General Construction

1. Provide all mobilization and demobilizations services such as setting up a work facility including, but not limited to: a shop, storage area, office, sanitary facilities, services, etc. as required by local and/or state laws and regulations. The mobilization work associated with the facilities mentioned shall be done in a safe and workmanlike manner and shall conform to all pertinent state and local laws and regulations.
2. The Medical Center must maintain its operation 24 hours a day 7 days a week. Therefore, any interruption in service must be scheduled and coordinated with the COTR to ensure that no lapses in operation occur. It is the CONTRACTOR'S responsibility to develop a work plan and schedule detailing, at a minimum, the procedures to be employed, the equipment and materials to be used, the interim life safety measure to be used during the work, and a schedule defining the duration of the work with milestone subtasks.
3. Work shall include the demolition, modification and/or installation of, but not limited to the following: All General Construction for the renovations of the corridors, waiting, storage, restrooms, offices and patient areas, etc. Temporary enclosure during construction, doors and hardware, acoustical/gypsum board ceilings,

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VCT floor tile, base and waterproof floor systems, acrylic wainscot, cabinetry, HVAC, electrical, plumbing, painting and asbestos abatement as described in the drawings and specifications. All work will be performed during normal daytime working hours unless directed otherwise by the phasing. The spaces will remain open during construction. See phasing requirements at the end of this section.

4. Submit a Work plan, for each phase, to include a narrative describing in detail the approach of the general contractor and other contractors, detailed schedule showing critical path, proposed shutdown dates and time periods, floor plan showing capture space outside area of construction, temporary demolition and reconstruction of building components in order to move equipment into place. Submit work plan to C.O.T.R./Architect for review and comment. The work plan shall be submitted to the C.O.T.R. for approval a minimum of 30 days prior to the scheduled commencement of work. Upon review by the COTR, the Contractor shall attend a meeting to finalize the work plan and schedule.
5. Development and submission of product submittals and submittal schedule to the Architect of Record and the Contracting officer as defined herein. All submittals shall be completed for each division submitted in a booklet/binder form. All single sheet submissions will be disapproved/rejected and returned to the contractor. Booklet/binders with missing sections for divisions will be disapproved/rejected and returned to contractor.
6. Coordination of the work of subcontractors and its impact on other contractors on site concurrently. Coordination between vendor supplied equipment and contractor supplied construction and equipment will be the responsibility of this contract.
7. Contractor will be limited to one parking space and one dumpster location. Pick-up and Drop-off of materials at the loading dock will be permitted. Contractor(s) will have to make arrangements to procure offsite parking and arrange for transportation from the

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offsite paring to the site as necessary for all of their staff and subcontractors.

8. Supply, install and remove all temporary construction barriers and infection control equipment (negative pressure equipment and instrumentation) as defined herein.
9. Demolition and proper disposal of debris in order to prepare for renovation work. This includes but is not limited to the removal of walls, flooring, ceilings, etc. Submit a report on materials removed. Example: Asbestos - LF, concrete masonry walls - lbs, etc. for each phase.
10. Supply and installation of new finishes including but not limited to wall finishes, flooring, ceilings, etc.
11. Drywall finishing and painting.
12. Supply and installation of Doors, frames and all associated hardware.
13. Clean and restore area to condition it was received in, including touch-up paint and repairs to walls and floors as required.
14. Hold/attend all weekly project meetings during construction. Take Meeting minutes during project meetings and distribute them to all parties within 2 business days. Number of meetings and date/time of those meetings shall be determined by the C.O.T.R.
15. Provide repair, patching and fire-stopping of existing penetrations through existing walls that are to remain for re-use. Contractor shall include an additional minimum of 500 square feet of wall repair/patching to match existing fire rating. (Separate line item.)
16. Provide repair, patching and fire-stopping of existing penetrations through existing floors that are to remain for re-use. Contractor shall include an additional minimum of 450 square feet of

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floor repair/patching to match existing fire rating. (Separate line item.)

17. Provide coordination drawings of existing HVAC, Plumbing, Fire Protection, and Electrical systems that are to remain, for re-use along with proposed systems to be provided in this project. Coordination drawings shall be submitted to the VA for review and approval prior to any demolition and new work installation. Drawing shall be in electronic format to 1/8" = 1'-0" scale minimum.
18. Contractor shall request a rough-in/final inspection before installation of drywall with the COTR and A/E team for all phases with their trades at the same time. The punch list shall be completed before moving onto the next phase. All phases shall be approved by the VA and A/E before moving on to the next phase.
19. Removal of the asbestos insulation board behind all radiators is not required. See Asbestos Abatement drawings for additional information. Careful removal of radiators must occur to avoid disturbing any of the insulation board to remain.
20. **PHASING:** Refer to phasing plans located in construction document bid package. All scheduling for phasing must be coordinated with the VA staff. There may be down time between each phase as determined by the COTR, allowing VA staff to relocate personal/supplies for the next phase. Contractor shall note that there is to be phasing of the construction of the project on both the 3rd and 2nd floors. It is anticipated that Construction phasing for the 2nd floor is to coincide with the phasing of the 3rd floor above due to the associated work to occur for the 3rd floor.

Phase #1: That portion of the work indicated on the Phasing Plan as PHASE 1 WORK AREA. (Includes both Second and Third Floors).

- a. The entire work area is to be placed in negative pressure as defined in the drawings for health care facilities and must be enclosed by temporary dust and wall enclosures during construction. All existing doors to remain are to be sealed with tape during construction. Filtration is to occur 24

hours, 7 days a week. Temporary Air filtration and return air circulation design/systems shall be approved by the COTR. If sprinkler system is down for more than two (2) hours, a fire watch, of the effected areas must be provided. When ceilings are removed for an extended period, the sprinkler heads are to be turned up and additional heads provided in compliance with NFPA requirements, in compliance with certified sprinkler design and as coordinated and agreed to by VA staff in lieu of a fire watch.

- b. Contractor shall include 15% of the work to be performed Nights, Weekends and off-hours as required on the Second floor within the PACU/ICU and waiting room areas.
- c. All construction work shall be performed during hours as agreed to by the COTR. Provide temporary lighting and exit signs as required. All existing smoke barriers shall be maintained. If smoke barriers cannot be maintained the contractor shall provide fire watch per VA standards. Fire protection shall be operational during work. Shut down of sprinkler system for rework to be coordinated with the VA.
- d. This entire area has Hazardous material abatement as part of the scope of work. Refer to the Sienna Environmental Technologies, LLC documents for abatement requirements.
- e. Temporary signage is to be provided and installed to direct VA staff and patients to any established alternate routes to elevators and stairways in order to limit VA staff and patient traffic through the phase under construction.
- f. Work will include but not be limited to:
 - i. Installation of 2 hour rated fire partitions to separate work areas, installation of temporary barriers, negative pressure, walk-off sticky pads and all infection control requirements as indicated in the contract documents and per VA typical construction standards and regulations.
 - ii. Removal of existing fixtures, furniture and equipment to be disposed of or turned over to the VA as determined by the COTR, or protected and to be re-installed.
 - iii. The asbestos survey indicates the presence of asbestos containing materials. Refer to the Sienna Environmental

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Technologies, LLC documents herein for abatement requirements.

- iv. Demolition of constructions as called for on the drawings including but not limited to ceiling, floor finishes, wall finishes, doors and frames, partitions and walls, special lead liner panels, HVAC, Plumbing, Electrical and Fire Protection Systems.
- v. Perform pre-demolition Testing, adjusting and balancing (TAB) of all existing HVAC, Plumbing and Electrical systems serving the existing spaces prior to any demolition. Submit report to the VA for review and approval prior to start of demolition.
- vi. Demolition and proper disposal of all existing ductwork, plumbing piping, and electrical conduit abandoned within walls and partitions, above ceilings within the project limitations. See construction documents.
- vii. Installation of new partitions, doors, frames, flooring, base, wall and ceiling finishes, built-in millwork, wainscoting, handrails, etc.
- viii. Supply and install all New HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems, devices and items required for the proper completion and function of this project per the construction documents.
- ix. Test and/or balance all HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems at the completion of this phase in the presence of the COTR, A/E and VA staff as required.

Phase #2: That portion of the work indicated on the Phasing Plan as PHASE 2 WORK AREA. (Includes both Second and Third Floors).

- a. The entire work area is to be placed in negative pressure as defined in the drawings for health care facilities and must be enclosed by temporary dust and wall enclosures during construction. All existing doors to remain are to be sealed with tape during construction. Filtration is to occur 24 hours, 7 days a week. Temporary Air filtration and return air circulation design/systems shall be approved by the COTR. If

sprinkler system is down for more than two (2) hours, a fire watch, of the effected areas must be provided. When ceilings are removed for an extended period, the sprinkler heads are to be turned up and additional heads provided in compliance with NFPA requirements, in compliance with certified sprinkler design and as coordinated and agreed to by VA staff in lieu of a fire watch.

- b. Contractor shall include 15% of the work to be performed Nights, Weekends and off-hours as required on the Second floor within the PACU/ICU and waiting room areas.
- c. All construction work shall be performed during hours as agreed to by the COTR. Provide temporary lighting and exit signs as required. All existing smoke barriers shall be maintained. If smoke barriers cannot be maintained the contractor shall provide fire watch per VA standards. Fire protection shall be operational during work. Shut down of sprinkler system for rework to be coordinated with the VA.
- d. This entire area has Hazardous material abatement as part of the scope of work. Refer to the Sienna Environmental Technologies, LLC documents for abatement requirements.
- e. Temporary signage is to be provided and installed to direct VA staff and patients to any established alternate routes to elevators and stairways in order to limit VA staff and patient traffic through the phase under construction.
- f. Work will include but not be limited to:
 - i. Installation of 2 hour rated fire partitions to separate work areas, installation of temporary barriers, negative pressure, walk-off sticky pads and all infection control requirements as indicated in the contract documents and per VA typical construction standards and regulations.
 - ii. Removal of existing fixtures, furniture and equipment to be disposed of or turned over to the VA as determined by the COTR, or protected and to be re-installed.
 - iii. The asbestos survey indicates the presence of asbestos containing materials. Refer to the Sienna

Environmental Technologies, LLC documents herein for abatement requirements.

- iv. Demolition of constructions as called for on the drawings including but not limited to ceiling, floor finishes, wall finishes, doors and frames, partitions and walls, HVAC, Plumbing, Electrical and Fire Protection Systems.
- v. Perform pre-demolition Testing, adjusting and balancing (TAB) of all existing HVAC, Plumbing and Electrical systems serving the existing spaces prior to any demolition. Submit report to the VA for review and approval prior to start of demolition.
- vi. Demolition and proper disposal of all existing ductwork, plumbing piping, and electrical conduit abandoned within walls and partitions, above ceilings within the project limitations. See construction documents.
- vii. Installation of new partitions, doors, frames, flooring, base, wall and ceiling finishes, built-in millwork, wainscoting, handrails, etc.
- viii. Supply and install all New HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems, devices and items required for the proper completion and function of this project per the construction documents.
- ix. Test and/or balance all HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems at the completion of this phase in the presence of the COTR, A/E and VA staff as required.

Phase #3: That portion of the work indicated on the Phasing Plan as PHASE 3 WORK AREA. (Includes both Second and Third Floors).

- a. The entire work area is to be placed in negative pressure as defined in the drawings for health care facilities and must be enclosed by temporary dust and wall enclosures during construction. All existing doors to remain are to be sealed with tape during construction. Filtration is to occur 24

hours, 7 days a week. Temporary Air filtration and return air circulation design/systems shall be approved by the COTR. If sprinkler system is down for more than two (2) hours, a fire watch, of the effected areas must be provided. When ceilings are removed for an extended period, the sprinkler heads are to be turned up and additional heads provided in compliance with NFPA requirements, in compliance with certified sprinkler design and as coordinated and agreed to by VA staff in lieu of a fire watch.

- b. Contractor shall include 15% of the work to be performed Nights, Weekends and off-hours as required on the Second floor within the PACU/ICU and waiting room areas.
- c. All construction work shall be performed during hours as agreed to by the COTR. Provide temporary lighting and exit signs as required. All existing smoke barriers shall be maintained. If smoke barriers cannot be maintained the contractor shall provide fire watch per VA standards. Fire protection shall be operational during work. Shut down of sprinkler system for rework to be coordinated with the VA.
- d. This entire area has Hazardous material abatement as part of the scope of work. Refer to the Sienna Environmental Technologies, LLC documents for abatement requirements.
- e. Temporary signage is to be provided and installed to direct VA staff and patients to any established alternate routes to elevators and stairways in order to limit VA staff and patient traffic through the phase under construction.
- f. Work will include but not be limited to:
 - i. Installation of 2 hour rated fire partitions to separate work areas, temporary barriers, negative pressure, walk-off sticky pads and all infection control requirements as indicated in the contract documents and per VA typical construction standards and regulations.
 - ii. Removal of existing fixtures, furniture and equipment to be disposed of or turned over to the VA as determined by the COTR, or protected and to be re-installed.

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- iii. The asbestos survey indicates the presence of asbestos containing materials. Refer to the Sienna Environmental Technologies, LLC documents herein for abatement requirements.
- iv. Demolition of constructions as called for on the drawings including but not limited to ceiling, floor finishes, wall finishes, doors and frames, partitions and walls, HVAC, Plumbing, Electrical and Fire Protection Systems.
- v. Perform pre-demolition Testing, adjusting and balancing (TAB) of all existing HVAC, Plumbing and Electrical systems serving the existing spaces prior to any demolition. Submit report to the VA for review and approval prior to start of demolition.
- vi. Demolition and proper disposal of all existing ductwork, plumbing piping, and electrical conduit abandoned within walls and partitions, above ceilings within the project limitations. See construction documents.
- vii. Installation of new partitions, doors, frames, flooring, base, wall and ceiling finishes, built-in millwork, wainscoting, handrails, etc.
- viii. Supply and install all New HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems, devices and items required for the proper completion and function of this project per the construction documents.
- ix. Test and/or balance all HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems at the completion of this phase in the presence of the COTR, A/E and VA staff as required.

Phase #4: That portion of the work indicated on the Phasing Plan as PHASE 4 WORK AREA. (Includes both Second and Third Floors).

- a. The entire work area is to be placed in negative pressure as defined in the drawings for health care facilities and must be enclosed by temporary dust and wall enclosures during

construction. All existing doors to remain are to be sealed with tape during construction. Filtration is to occur 24 hours, 7 days a week. Temporary Air filtration and return air circulation design/systems shall be approved by the COTR. If sprinkler system is down for more than two (2) hours, a fire watch, of the effected areas must be provided. When ceilings are removed for an extended period, the sprinkler heads are to be turned up and additional heads provided in compliance with NFPA requirements, in compliance with certified sprinkler design and as coordinated and agreed to by VA staff in lieu of a fire watch.

- b. Contractor shall include 15% of the work to be performed Nights, Weekends and off-hours as required on the Second floor within the PACU/ICU and waiting room areas.
- c. All construction work shall be performed during hours as agreed to by the COTR. Provide temporary lighting and exit signs as required. All existing smoke barriers shall be maintained. If smoke barriers cannot be maintained the contractor shall provide fire watch per VA standards. Fire protection shall be operational during work. Shut down of sprinkler system for rework to be coordinated with the VA.
- d. This entire area has Hazardous material abatement as part of the scope of work. Refer to the Sienna Environmental Technologies, LLC documents for abatement requirements.
- e. Temporary signage is to be provided and installed to direct VA staff and patients to any established alternate routes to elevators and stairways in order to limit VA staff and patient traffic through the phase under construction.
- f. Work will include but not be limited to:
 - i. Installation of 2 hour rated fire partitions to separate work areas, installation of temporary barriers, negative pressure, walk-off sticky pads and all infection control requirements as indicated in the contract documents and per VA typical construction standards and regulations.
 - ii. Removal of existing fixtures, furniture and equipment to be disposed of or turned over to the

VA as determined by the COTR, or protected and to be re-installed.

- iii. The asbestos survey indicates the presence of asbestos containing materials. Refer to the Sienna Environmental Technologies, LLC documents herein for abatement requirements.
- iv. Demolition of constructions as called for on the drawings including but not limited to ceiling, floor finishes, wall finishes, doors and frames, partitions and walls, HVAC, Plumbing, Electrical and Fire Protection Systems.
- v. Perform pre-demolition Testing, adjusting and balancing (TAB) of all existing HVAC, Plumbing and Electrical systems serving the existing spaces prior to any demolition. Submit report to the VA for review and approval prior to start of demolition.
- vi. Demolition and proper disposal of all existing ductwork, plumbing piping, and electrical conduit abandoned within walls and partitions, above ceilings within the project limitations. See construction documents.
- vii. Installation of new partitions, doors, frames, flooring, base, wall and ceiling finishes, built-in millwork, wainscoting, handrails, etc.
- viii. Supply and install all New HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems, devices and items required for the proper completion and function of this project per the construction documents.
- ix. Test and/or balance all HVAC, Plumbing, Electrical, Communication, Security/Alarm and Fire Protection systems at the completion of this phase in the presence of the COTR, A/E and VA staff as required.

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1.4 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

- A. AFTER AWARD OF CONTRACT, additional sets of specifications and drawings may be made by the Contractor, at Contractor's expense, from electronic files accessed through Owner's web site.

1.5 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 General Contractor is responsible for assuring that all sub-contractors working on the project and their employees also comply with these regulations.

B. Security Procedures:

1. General 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 General Contractor shall give 3 days notice to the Contracting Officer so that arrangements can be provided for the employees. This notice is separate from any notices required for utility shutdown described later in this section.
3. No photography of VA premises is allowed without written permission of the Contracting Officer.
4. VA reserves the right to close down or shut down the project site and order General Contractor's employees off the premises in the event of a national emergency. The General Contractor may return to the site only with the written approval of the Contracting Officer.

C. Key Control:

1. The General Contractor shall provide duplicate keys and lock combinations to the COTR for the purpose of security inspections of every area of project including tool boxes and parked machines and take any emergency action.
2. The General Contractor shall turn over all permanent lock cylinders to the VA locksmith for permanent installation. See Section 08 71 00, DOOR HARDWARE and coordinate.

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D. Document Control:

1. Before starting any work, the General Contractor/Sub Contractors shall submit an electronic security memorandum describing the approach to following goals and maintaining confidentiality of "sensitive information".
2. The General Contractor is responsible for safekeeping of all drawings, project manual and other project information. This information shall be shared only with those with a specific need to accomplish the project.
3. Certain documents, sketches, videos or photographs and drawings may be marked "Law Enforcement Sensitive" or "Sensitive Unclassified". Secure such information in separate containers and limit the access to only those who will need it for the project. Return the information to the Contracting Officer upon request.
4. These security documents shall not be removed or transmitted from the project site without the written approval of Contracting Officer.
5. All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed in a manner acceptable to the VA.
6. Notify Contracting Officer and Site Security Officer immediately when there is a loss or compromise of "sensitive information".
7. All electronic information shall be stored in specified location following VA standards and procedures using an Engineering Document Management Software (EDMS).
 - a. Security, access and maintenance of all project drawings, both scanned and electronic shall be performed and tracked through the EDMS system.
 - b. "Sensitive information" including drawings and other documents may be attached to e-mail provided all VA encryption procedures are followed.

E. Motor Vehicle Restrictions

1. Vehicle authorization request shall be required for any vehicle entering the site and such request shall be submitted 24 hours before the date and time of access. Access shall be restricted to picking up and dropping off materials and supplies.
2. Separate permits shall be issued for General Contractor and its employees for parking in designated areas only.

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1.6 FIRE SAFETY

- A. Applicable Publications: Publications listed below form part of this Article to extent referenced. Publications are referenced in text by basic designations only.
1. American Society for Testing and Materials (ASTM):
 - E84-2008.....Surface Burning Characteristics of Building Materials
 2. National Fire Protection Association (NFPA):
 - 10-2010.....Standard for Portable Fire Extinguishers
 - 30-2012.....Flammable and Combustible Liquids Code
 - 51B-2009.....Standard for Fire Prevention During Welding, Cutting and Other Hot Work
 - 70-2011.....National Electrical Code
 - 101-2012.....Life Safety Code
 - 241-2009.....Standard for Safeguarding Construction, Alteration, and Demolition Operations
 3. Occupational Safety and Health Administration (OSHA):
 - 29 CFR 1926.....Safety and Health Regulations for Construction
- B. Fire Safety Plan: Establish and maintain a fire protection program in accordance with 29 CFR 1926. Prior to start of work, prepare a plan detailing project-specific fire safety measures, including periodic status reports, and submit to COTR and Facility Safety Manager Officer for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES Prior to any worker for the contractor or subcontractors beginning work, they shall undergo a safety briefing provided by the general contractor's competent person per OSHA requirements. This briefing shall include information on the construction limits, VAMC safety guidelines, means of egress, break areas, work hours, locations of restrooms, use of VAMC equipment, etc. Documentation shall be provided to the COTR that individuals have undergone contractor's safety briefing.
- C. Site and Building Access: Maintain free and unobstructed access to facility emergency services and for fire, police and other emergency response forces in accordance with NFPA 241.
- D. Separate temporary facilities, such as trailers, storage sheds, and dumpsters, from existing buildings and new construction by distances in accordance with NFPA 241. For small facilities with less than 6 m (20 feet) exposing overall length, separate by 3m (10 feet).

E. Temporary Construction Partitions:

1. Install and maintain **two-hour fire rated** temporary construction partitions to provide smoke-tight separations between construction areas and 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, 1 1/2 hour fire/smoke rated doors with self-closing devices.
2. Install **two-hour fire-rated** temporary construction partitions as shown on drawings to maintain integrity of existing exit stair enclosures, exit passageways, fire-rated enclosures of hazardous areas, horizontal exits, smoke barriers, vertical shafts and openings enclosures.
3. 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.

F. Temporary Heating and Electrical: Install, use and maintain installations in accordance with 29 CFR 1926, NFPA 241 and NFPA 70.

G. Means of Egress: Do not block exiting for occupied buildings, including paths from exits to roads. Minimize disruptions and coordinate with COTR.

H. Egress Routes for Construction Workers: Maintain free and unobstructed egress. Inspect daily. Report findings and corrective actions weekly to COTR.

I. Fire Extinguishers: Provide and maintain extinguishers in construction areas and temporary storage areas in accordance with 29 CFR 1926, NFPA 241 and NFPA 10.

J. Flammable and Combustible Liquids: Store, dispense and use liquids in accordance with 29 CFR 1926, NFPA 241 and NFPA 30.

K. Sprinklers: Install, test and activate new automatic sprinklers prior to removing existing sprinklers. New automatic sprinklers must be installed to NFPA 13 requirements. Provide written certification from Fire Protection Engineer or NICET certified technician.

L. Standpipes: Install and extend standpipes up with each floor in accordance with 29 CFR 1926 and NFPA 241. Do not charge wet standpipes subject to freezing until weather protected.

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- M. Existing Fire Protection: Do not impair automatic sprinklers, smoke and heat detection, and fire alarm systems, except for portions immediately under construction, and temporarily for connections. The removal of ceiling tile or the installation of any item that interferes with the spray pattern of any existing sprinkler head is considered an impairment of the fire protection system. Provide fire watch for impairments more than 4 hours in a 24-hour period. Request interruptions in accordance with Article, OPERATIONS AND STORAGE AREAS, and coordinate with COTR and facility safety manager. All existing or temporary fire protection systems (fire alarms, sprinklers) located in construction areas shall be tested as coordinated with the medical center. Parameters for the testing and results of any tests performed shall be recorded by the medical center and copies provided to the COTR.
- N. Smoke Detectors: Prevent accidental operation. Remove temporary covers at end of work operations each day. Coordinate with COTR.
- O. Hot Work: Perform and safeguard hot work operations in accordance with NFPA 241 and NFPA 51B. Coordinate with COTR. Obtain permits from engineering office at least 24 hours in advance. Designate contractor's responsible project-site fire prevention program manager to permit hot work.
- P. Fire Hazard Prevention and Safety Inspections: Inspect entire construction areas weekly. Coordinate with, and report findings and corrective actions weekly to COTR and facility Safety Manager.
- Q. Smoking: Smoking is prohibited in and adjacent to construction areas inside existing buildings and additions under construction. In separate and detached buildings under construction, smoking is prohibited except in designated smoking rest areas.
- R. Dispose of waste and debris in accordance with NFPA 241 and Section 010000-1.10 INFECTION PREVENTION MEASURES. Remove from buildings daily.
- S. Perform other construction, alteration and demolition operations in accordance with 29 CFR 1926.
- T. If required, submit documentation to the COTR that personnel have been trained in the fire safety aspects of working in areas with impaired structural or compartmentalization features.

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1.7 CONSTRUCTION SAFETY

A. General:

1. Contractors are required to comply with the Occupational Safety and Health Act of 1970. This will include the safety and health standard found in CFR 1910 and 1926.
2. Questions regarding occupational safety and health issues can be addressed to the COTR or the facility safety manager.
3. Submit site specific safety plan with task hazard analysis.

B. Hazard Communication:

1. Copies of Material Safety Data Sheets covering all hazardous materials to be used by the contractor shall be submitted to the COTR prior to bringing them on VA property.
2. Contractors shall inform the COTR of the hazards to which VA personnel and patients may be exposed.

C. Tools/Equipment:

1. Under no circumstances are equipment, tools and other items of work to be left unattended for any reason. All tools, equipment and items of work must be under the immediate control of your employee.
2. The operator of powder activated tools must be trained and certified to use them. Powder activated tools will be kept in a secured manner at all times. When not in use, the tools will be locked up. When in use, the operator will have the tool under his immediate control.
3. All doors to work areas will be closed and locked when rooms are left unattended.
4. You must report to the VA Police Department any tools or equipment that are missing.
5. Tools and equipment found unattended will be confiscated and removed from the work area.
6. It is required that ladders not be left unattended in an upright position. Ladders must be attended at all times or taken down and chained securely to a stationary object.
7. All scaffolds will be attended at all times. When not in use, an effective barricade (fence) will be erected around the scaffold to prevent use by unauthorized personnel.
8. Equipment powered by an internal combustion engine such as saws, compressors, generators and etc. will not be used in an occupied

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building. Special consideration may be given for unoccupied buildings only if the OSHA and NFPA requirements have been met.

D. Signs:

1. Signs must be placed at the entrance to work areas warning people of your work. Signs must be suitable for the condition of the work. Small pieces of paper with printing or writing are not acceptable.

E. Accidents and Injuries

1. Contractors must report all accidents and injuries involving their employees.

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 Contracting Officer. The Contractor 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, offices) and utilities may be erected by the Contractor only with the approval of the Contracting Officer 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 Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- C. The Contractor shall, under regulations prescribed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. 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 as shown on the drawings.

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- E. Workmen are subject to rules of Medical Center applicable to their conduct.
- F. Execute work so as to interfere as little as possible with normal functioning of the 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 COTR where required by limited working space.
 - 1. Do not store materials and equipment in other than assigned areas.
 - 2. Schedule delivery of materials and equipment to immediate construction working areas within buildings in use by Department of Veterans Affairs in quantities sufficient for not more than two work days. 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. Utilities Services: Where necessary to cut existing pipes, electrical wires, conduits, cables, etc., of utility services, or of fire protection systems or communications systems (except telephone), they shall be cut and capped at suitable places where shown; or, in absence of such indication, where directed by COTR. All such actions shall be coordinated with the Utility Company involved:
 - 1. Whenever it is required that a connection fee be paid to a public utility provider for new permanent service to the construction project, for such items as water, sewer, electricity, gas or steam, payment of such fee shall be the responsibility of the Government and not the Contractor.
- H. 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 Centers operations will not be hindered. Contractor shall permit access to Department of Veterans Affairs personnel and patients through other construction areas which serve as routes of access to such affected areas and equipment. Coordinate alteration work in areas occupied by Department of Veterans Affairs so

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that Medical Center operations will continue during the construction period.

1. Immediate areas of alterations not mentioned in preceding section will be temporarily vacated while alterations are performed.

I. When a building is turned over to Contractor, Contractor shall accept entire responsibility therefore.

1. Contractor shall maintain a minimum temperature of 4 degrees C (40 degrees F) at all times, except as otherwise specified.

2. Contractor shall maintain in operating condition existing fire protection and alarm equipment. In connection with fire alarm equipment, Contractor shall make arrangements for pre-inspection of site with Fire Department or Company (Department of Veterans Affairs or municipal) whichever will be required to respond to an alarm from Contractor's employee or watchman.

J. Utilities Services: Maintain existing utility services for Medical Center at all times. Provide temporary facilities, labor, materials, equipment, connections, and utilities to assure uninterrupted services. Where necessary to cut existing water, steam, gases, sewer or air pipes, or conduits, wires, cables, etc. of utility services or of fire protection systems and communications systems (including telephone), they shall be cut and capped at suitable places where shown; or, in absence of such indication, where directed by COTR.

1. No utility service such as water, gas, steam, sewers or electricity, or fire protection systems and communications systems may be interrupted without prior approval of COTR. Electrical work shall be accomplished with all affected circuits or equipment de-energized. When an electrical outage cannot be accomplished, work on any energized circuits or equipment shall not commence without the Medical Center Director's prior knowledge and written approval. Refer to specification Sections 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, 27 05 11 REQUIREMENTS FOR COMMUNICATIONS INSTALLATIONS and 28 05 11, REQUIREMENTS FOR ELECTRONIC SAFETY AND SECURITY INSTALLATIONS for additional requirements.

2. Contractor shall submit a request to interrupt any such services to COTR, in writing, 1 week in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.

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3. 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.
 4. 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 COTR.
 5. In case of a contract construction emergency, service will be interrupted on approval of COTR. Such approval will be confirmed in writing as soon as practical.
 6. Whenever it is required that a connection fee be paid to a public utility provider for new permanent service to the construction project, for such items as water, sewer, electricity, gas or steam, payment of such fee shall be the responsibility of the Government and not the Contractor.
- K. 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.
- L. To minimize interference of construction activities with flow of Medical Center traffic, comply with the following:
1. 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. Wherever excavation for new utility lines cross existing roads, at least one lane must be open to traffic at all times.
 2. Method and scheduling of required cutting, altering and removal of existing roads, walks and entrances must be approved by the COTR.
- M. Coordinate the work for this contract with other construction operations as directed by COTR. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.

1.9 ALTERATIONS

- A. Survey: Before any work is started, the Contractor shall make a thorough survey with the COTR 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 Contracting Officer. 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 COTR.
 5. Provide coordination drawings for all trades. Submit to COTR.
- 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 COTR 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) of Section 00 72 00, GENERAL CONDITIONS.
- C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and COTR 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 as compared with conditions of same as noted in first condition survey report:
1. 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.

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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.

1.10 INFECTION PREVENTION MEASURES

- A. Implement the requirements of VAMC's Infection Control Risk Assessment (ICRA) team. ICRA Group may monitor dust in the vicinity of the construction work and require the Contractor to take corrective action immediately if the safe levels are exceeded.
- B. Establish and maintain a dust control program as part of the contractor's infection preventive measures in accordance with the guidelines provided by ICRA Group//as specified here//. Prior to start of work, prepare a plan detailing project-specific dust protection measures, including periodic status reports, and submit to COTR for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
 1. All personnel involved in the construction or renovation activity shall be educated and trained in infection prevention measures established by the medical center.
- C. Medical center Infection Control personnel shall monitor for airborne disease (e.g. aspergillosis) as appropriate during construction. A baseline of conditions may be established by the medical center prior to the start of work and periodically during the construction stage to determine impact of construction activities on indoor air quality. In addition:
 1. The COTR and VAMC Infection Control personnel shall review pressure differential monitoring documentation to verify that pressure differentials in the construction zone and in the patient-care rooms are appropriate for their settings. The requirement for negative air

- pressure in the construction zone shall depend on the location and type of activity. Upon notification, the contractor shall implement corrective measures to restore proper pressure differentials as needed.
2. In case of any problem, the medical center, along with assistance from the contractor, shall conduct an environmental assessment to find and eliminate the source.
- D. In general, following preventive measures shall be adopted during construction to keep down dust and prevent mold.
1. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by COTR. Blank off ducts and diffusers to prevent circulation of dust into occupied areas during construction.
 2. Do not perform dust producing tasks within occupied areas without the approval of the COTR. For construction in any areas that will remain jointly occupied by the medical Center and Contractor's workers, the Contractor shall:
 - a. Provide dust proof two-hour fire-rated temporary drywall construction barriers to completely separate construction from the operational areas of the hospital in order to contain dirt debris and dust. Barriers shall be sealed and made presentable on hospital occupied side. Install a self-closing rated door in a metal frame, commensurate with the partition, to allow worker access. Maintain negative air at all times. A fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local fire codes may be used where dust control is the only hazard, and an agreement is reached with the COTR and Medical Center.
 - b. HEPA filtration is required where the exhaust dust may reenter the breathing zone. Contractor shall verify that construction exhaust to exterior is not reintroduced to the medical center through intake vents, or building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at 95% capture of 0.3 microns including pollen, mold spores and dust particles. Insure continuous negative air pressures occurring within the work area. HEPA filters should have ASHRAE 85 or other prefilter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty,

flexible steel reinforced and exhausted so that dust is not reintroduced to the medical center. Contractor shall install monitoring system to record air quality, and supply COTR with daily and weekly readings.

- c. Adhesive Walk-off/Carpet Walk-off Mats, minimum 600mm x 900mm (24" x 36"), shall be used at all interior transitions from the construction area to occupied medical center area. These mats shall be changed as often as required to maintain clean work areas directly outside construction area at all times.
 - d. Vacuum and wet mop all transition areas from construction to the occupied medical center at the end of each workday. Vacuum shall utilize HEPA filtration. Maintain surrounding area frequently. Remove debris as they are created. Transport these outside the construction area in containers with tightly fitting lids.
 - e. The contractor shall not haul debris through patient-care areas without prior approval of the COTR and the Medical Center. When, approved, debris shall be hauled in enclosed dust proof containers or wrapped in plastic and sealed with duct tape. No sharp objects should be allowed to cut through the plastic. Wipe down the exterior of the containers with a damp rag to remove dust. All equipment, tools, material, etc. transported through occupied areas shall be made free from dust and moisture by vacuuming and wipe down.
 - f. Using a HEPA vacuum, clean inside the barrier and vacuum ceiling tile prior to replacement. Any ceiling access panels opened for investigation beyond sealed areas shall be sealed immediately when unattended.
 - g. There shall be no standing water during construction. This includes water in equipment drip pans and open containers within the construction areas. All accidental spills must be cleaned up and dried within 12 hours. Remove and dispose of porous materials that remain damp for more than 72 hours.
 - h. At completion, remove construction barriers and ceiling protection carefully, outside of normal work hours. Vacuum and clean all surfaces free of dust after the removal.
- E. Final Cleanup:

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1. Upon completion of project, or as work progresses, remove all construction debris from above ceiling, vertical shafts and utility chases that have been part of the construction.
2. Perform HEPA vacuum cleaning of all surfaces in the construction area. This includes walls, ceilings, cabinets, furniture (built-in or free standing), partitions, flooring, etc.
3. All new air ducts shall be cleaned prior to final inspection.

1.11 DISPOSAL AND RETENTION

A. 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 that 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 where directed by COTR.
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 Department of Veterans Affairs 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.

1.12 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 will not be removed and which does 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 Contracting Officer.

- 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 Contracting Officer may have the necessary work performed and charge the cost to the Contractor.
- C. Refer to 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.

1.13 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 COTR. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COTR before it is disturbed. Materials and workmanship used in restoring 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)

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which are indicated on drawings 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) of Section 00 72 00, GENERAL CONDITIONS.

1.14 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 COTR's review, as often as requested.
- C. Contractor shall deliver two approved completed sets of as-built drawings to the COTR within 15 calendar days after each completed phase and after the acceptance of the project by the COTR.
- D. Paragraphs A, B, & C shall also apply to all shop drawings.

1.15 USE OF ROADWAYS

- A. For hauling, use only established public roads and roads on Medical Center property and, when authorized by the COTR, 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.

1.16 TEMPORARY USE OF MECHANICAL AND ELECTRICAL EQUIPMENT

- A. Use of new installed mechanical and electrical equipment to provide heat, ventilation, plumbing, light and power will be permitted subject to compliance with the following provisions:
 - 1. Permission to use each unit or system must be given by COTR. If the equipment is not installed and maintained in accordance with the following provisions, the COTR will withdraw permission for use of the equipment.
 - 2. Electrical installations used by the equipment shall be completed in accordance with the drawings and specifications to prevent damage to the equipment and the electrical systems, i.e. transformers, relays,

- circuit breakers, fuses, conductors, motor controllers and their overload elements shall be properly sized, coordinated and adjusted. Voltage supplied to each item of equipment shall be verified to be correct and it shall be determined that motors are not overloaded. The electrical equipment shall be thoroughly cleaned before using it and again immediately before final inspection including vacuum cleaning and wiping clean interior and exterior surfaces.
3. Units shall be properly lubricated, balanced, and aligned. Vibrations must be eliminated.
 4. Automatic temperature control systems for preheat coils shall function properly and all safety controls shall function to prevent coil freeze-up damage.
 5. The air filtering system utilized shall be that which is designed for the system when complete, and all filter elements shall be replaced at completion of construction and prior to testing and balancing of system.
 6. All components of heat production and distribution system, metering equipment, condensate returns, and other auxiliary facilities used in temporary service shall be cleaned prior to use; maintained to prevent corrosion internally and externally during use; and cleaned, maintained and inspected prior to acceptance by the Government. Boilers, pumps, feedwater heaters and auxiliary equipment must be operated as a complete system and be fully maintained by operating personnel. Boiler water must be given complete and continuous chemical treatment.
- B. Prior to final inspection, the equipment or parts used which show wear and tear beyond normal, shall be replaced with identical replacements, at no additional cost to the Government.
- C. This paragraph shall not reduce the requirements of the mechanical and electrical specifications sections.

1.17 TEMPORARY USE OF EXISTING ELEVATORS

- A. Use of existing elevators for handling building materials and Contractor's personnel will be permitted subject to following provisions:
1. Contractor makes all arrangements with the COTR for use of elevators. The COTR will ascertain that elevators are in proper condition. Contractor may use elevator No 6 in Building No.1 for daily use

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between the hours of 7:30AM - 4:00PM and for special nonrecurring time intervals when permission is personnel for operating elevators will not be provided by the Department of Veterans Affairs.

2. Contractor covers and provides maximum protection of following elevator components:
 - a. Entrance jambs, heads soffits and threshold plates.
 - b. Entrance columns, canopy, return panels and inside surfaces of car enclosure walls.
 - c. Finish flooring.

1.18 TEMPORARY TOILETS

- A. 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.

1.19 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 amount to be paid by the Contractor for chargeable electrical services shall be the prevailing rates charged to the Government. 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 Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of electricity used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.
- C. Heat: Furnish temporary heat necessary to prevent injury to work and materials through dampness and cold. Use of open salamanders or any temporary heating devices which may be fire hazards or may smoke and damage finished work, will not be permitted. Maintain minimum temperatures as specified for various materials:

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1. Obtain heat by connecting to Medical Center heating distribution system.
 - a. Steam is available at no cost to Contractor.
- D. Electricity (for Construction and Testing): Furnish all temporary electric services.
 1. Obtain electricity by connecting to the Medical Center electrical distribution system. The Contractor shall meter and pay for electricity required for electric cranes and hoisting devices, electrical welding devices and any electrical heating devices providing temporary heat. Electricity for all other uses is available at no cost to the Contractor.
- E. 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 COTR's discretion) of use of water from Medical Center's system.
- F. Steam: Furnish steam system for testing required in various sections of specifications.
 1. Obtain steam for testing by connecting to the Medical Center steam distribution system. Steam is available at no cost to the Contractor.
 2. Maintain connections, pipe, fittings and fixtures and conserve steam-use so none is wasted. Failure to stop leakage or other waste will be cause for revocation (at COTR's discretion), of use of steam from the Medical Center's system.

1.20 NEW TELEPHONE EQUIPMENT

The contractor shall coordinate with the work of installation of telephone equipment by others. This work shall be completed before the building is turned over to VA.

1.21 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 Contracting Officer. 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.

1.22 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 COTR 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 Department of Veterans Affairs 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 COTR and shall be considered concluded only when the COTR is satisfied in regard to complete and thorough coverage. The Department of Veterans Affairs reserves the right to request the removal of, and substitution for, any instructor who, in the opinion of the COTR, does not demonstrate sufficient qualifications in accordance with requirements for instructors above.

1.23 GOVERNMENT-FURNISHED PROPERTY

- A. The Government shall deliver to the Contractor, the Government-furnished property shown on the drawings.
- B. Equipment furnished by Government to be installed by Contractor will be furnished to Contractor at the Medical Center.
- C. Storage space for equipment will be provided by the Government and the Contractor shall be prepared to unload and store such equipment therein upon its receipt at the Medical Center.
- D. Notify Contracting Officer in writing, 60 days in advance, of date on which Contractor will be prepared to receive equipment furnished by

Government. Arrangements will then be made by the Government for delivery of equipment.

1. Immediately upon delivery of equipment, Contractor shall arrange for a joint inspection thereof with a representative of the Government. At such time the Contractor shall acknowledge receipt of equipment described, make notations, and immediately furnish the Government representative with a written statement as to its condition or shortages.

2. Contractor thereafter is responsible for such equipment until such time as acceptance of contract work is made by the Government.

E. Equipment furnished by the Government will be delivered in a partially assembled (knock down) condition in accordance with existing standard commercial practices, complete with all fittings, fastenings, and appliances necessary for connections to respective services installed under contract. All fittings and appliances (i.e., couplings, ells, tees, nipples, piping, conduits, cables, and the like) necessary to make the connection between the Government furnished equipment item and the utility stub-up shall be furnished and installed by the contractor at no additional cost to the Government.

F. Completely assemble and install the Government furnished equipment in place ready for proper operation in accordance with specifications and drawings.

G. Furnish supervision of installation of equipment at construction site by qualified factory trained technicians regularly employed by the equipment manufacturer.

1.24 RELOCATED EQUIPMENT AND ANCILLARIES

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 COTR.

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 before under paragraph "Abandoned Lines".

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- 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.
- E. All service lines such as noted above for relocated equipment shall be in place at point of relocation ready for use before any existing equipment is disconnected. Make relocated existing equipment ready for operation or use immediately after reinstallation.

1.25 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 COTR verbally, and then with a written follow up.

1.26 CONSTRUCTION WASTE MANAGEMENT (4 ARR 2010)

- A. Waste disposal in landfills shall be minimized to the greatest extent possible. Of the inevitable waste that is generated, as much of the waste material as economically feasible shall be salvaged, recycled or reused.
- B. At a minimum the following waste categories shall be diverted from landfills:
 - 1. Recyclable metal (e.g., steel, wire, copper, iron, etc.) and/or other products removed from construction projects.
- C. Contractor shall submit a project weight summary of construction and demolition debris diverted from landfills. Reporting will be submitted at end of project and include beginning and ending dates of period covered.
- D. Contractor shall be responsible for storing, transporting and disposing of materials that cannot be delivered to a source-separated or mixed materials recycling facility to a transfer station or disposal facility that can accept the materials in accordance with state and federal regulations.

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