

SECTION 01010 - GENERAL REQUIREMENTSTABLE OF CONTENTS

ARTICLE NO. TITLE

1.1	GENERAL INTENTION
1.2	STATEMENT OF BID ITEMS
1.3	SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR
1.4	FIRE SAFETY PRECAUTIONS
1.5	OPERATIONS AND STORAGE AREAS
1.6	ALTERATIONS
1.7	PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES AND IMPROVEMENTS
1.8	RESTORATION
1.9	NOT USED
1.10	NOT USED
1.11	LAYOUT OF WORK
1.12	USE OF ROADWAYS
1.13	NOT USED
1.14	TEMPORARY USE OF MECHANICAL AND ELECTRICAL EQUIPMENT
1.15	TEMPORARY USE OF EXISTING ELEVATORS
1.16	NOT USED
1.17	TEMPORARY TOILETS
1.18	AVAILABILITY AND USE OF UTILITY SERVICES
1.19	NOT USED
1.20	TESTS
1.21	INSTRUCTIONS
1.22	NOT USED
1.23	RELOCATED ITEMS
1.24	NOT USED
1.25	CONSTRUCTION SIGN
1.26	SAFETY SIGN
1.27	NOT USED
1.28	NOT USED
1.29	NOT USED
1.30	HISTORIC PRESERVATION

SECTION 01010 - GENERAL REQUIREMENTS**1.1 GENERAL INTENTION**

Contractor shall preform removal and replacement of existing structure and roofing, and furnish labor and materials and perform work to replace existing roofing, brick, mortar, flashing, setting bed, terracotta masonry and associated weatherproofing and finishes on Building 36 at the Department of Veterans Affairs Medical Center in Canandaigua, New York as required by drawings and specifications.

For all Building 36 areas referenced or indicated on the drawings the work of this contract shall deliver a thorough and professional weatherproof restoration of the masonry and terra cotta exterior of Building 36 by a qualified masonry restoration contractor with documented experience specializing in similar work. Proposals which do not provide documented exterior masonry restoration and EPDM Roofing experience for occupied structures similar to Building 36 will not be considered.

The contractor shall completely survey the site in preparing the bid proposal. The work will include selective demolition and removal of existing structures and furnishing labor and materials to perform work to replace existing roofing, brick, mortar, flashing, setting bed, terracotta, masonry and associated weatherproofing and finishes for Building 36 at the Department of Veterans Affairs Medical Center in Canandaigua, New York as defined by drawings and specifications.

The contractor will be given 180 days for the period of performance for this contract from date of Notice to Proceed.

1.2 STATEMENT OF BID ITEM(S)

- A. ITEM I, GENERAL CONSTRUCTION: Work includes general construction, alterations, drainage, weeps, mechanical and electrical work necessary to perform the work.
- B. Architectural Restoration and Tuck Pointing – The work shall include new material restoration of all deficient architectural and weather barrier exterior masonry, flashing and terracotta features of Building 1 to provide a sound and weather proof fascia. Bond brick courses are used throughout the structure. Where affect the existing bond courses shall be fully removed and completely replaced with a new bond course in all areas of restoration and rework.
 - 1. Work shown on the drawings indicates areas requiring full restoration.
 - 2. Section 04 05 31 Tuck Pointing shall be performed at all locations of cracked, separated or deteriorated mortar at brick, flashing, terra cotta or adjacent masonry. Mortar joints shall be removed to a minimum depth of 3/4" and replaced with new mortar.
 - 3. Brick with deteriorate or spalled facing shall be replaced. Cracked brick shall be replaced. Maintain existing sound or completely replace unsound masonry bond courses in the work.
 - 4. All caulking shall be removed and replaced by tuck point mortar per Specification

Section 07920.

5. Reuse of sound non deteriorated terra cotta capping stone shall be permitted. Cracked, damaged or deteriorated terra cotta shall be replaced. All gable terra cotta cap material shall be reset or replaced. If the terracotta cap is in good condition it should be saved for cleaning, sealing and reinstallation. If it is not, an exact duplicate must be made out of material of original construction either new terracotta or concrete. The manufacturer for replacement terra cotta shall be an approved VA equal to Superior Clay Corporation, P.O. Box 352 Uhrichsville, Ohio 44683 (888 254 1905).
6. Original masonry joints have been caulked over in prior work. All caulking of masonry joints shall be removed. New mortar joints shall be provided per Specification Section 07920. All joints shall be flush struck and rubbed appropriately to match original.
7. All weep and cavity drain features shall be maintained and added where required.
8. Where ferrous metal corrosion at areas of reinforcing steel, lintels, beams and other supports has expanded and displaced fascia, terra cotta or masonry or at locations as shown on the drawings it shall be uncovered. Corroded metal shall be replaced with new structural members of equal dimension and material. Where structural metal or impediments continue into the sound and untouched structure they shall be sand blasted in place and receive two coats of prime and finish paint with an approved zinc rich paint. Thereafter structural repair of the concrete or substructure shall be performed and replacement of the masonry façade may proceed.
9. Other than the as required for work at the main entrance, only one (1) door is allowed to be closed at the same time for periods not greater than 3 days. At building entries that are to remain open an OSHA compliance PE Engineered entry protection shall be installed by the contractor's.
10. The contractor shall provide non restricted use of a personnel lift for inspection by the VA Engineering Representative or his designee.
11. The contractor shall protect the work from freezing temperatures without use of mortar admixtures of calcium chloride, sodium or similar components. Temporary heat shall be provided by the contractor as required.

C. Other

1. The work shall be coordinated by the contractor with full time site supervision. Work shall be performed with particular attention to Earned Value Methodology and Schedule per Section 01321615.
2. Proposals for changes to the work shall include detailed material take off amounts and labor hour detail for discrete item performance for review and approval by the Contract Officer and COR.
3. The contractor shall not transit any equipment, rubble, material or tools through Building 36. Access paths to the work location from the interior of the building shall be kept clear and free of all dust, dirt, marring, foot prints and other debris resultant

from the work. The contractor shall damp mop any soiled area resultant from the work or access to the work daily or as directed by the COR.

4. A crane lift plan is required for all lifts over any building. The plan shall be submitted for review and modification subject to COR and VA HSE approval. No lift shall occur over occupied portions of the building. All signage, coordination and communication to assure all clear vacancy shall be provided by the contractor. It is required that lifts shall be scheduled during VA non regular hours.

1.3 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR

- A. AFTER AWARD OF CONTRACT, No specifications and drawings will be furnished. The contractor may reproduce documentation from the electronic files supporting the bidding process.
- B. Additional sets of drawings may be made by the Contractor, at Contractor's expense, from electronic bidding files. The contractor will provide one complete set of drawings for as build marked up project records as part of close out responsibility and prior to final payment.
- C. DRAWINGS - The Contract drawings are reproduced general facsimiles of B36 exterior based on the old original drawings and therefore could be somewhat inaccurate. There is no intent to represent accurate scale or exact detail of the exterior. All dimensions shown should be considered conceptual and to be verified by the contractor prior to the work. The contractor shall perform a sufficient pre bid survey to include all conditions of restoration represented in either the plans or the specifications as they apply. It is the bidders' responsibility to fully investigate and understand the work necessary to execute this construction.

Drawing T-1	1 of 4	08/2015	Title Sheet
Drawing A-1	2 of 4	08/2015	Existing Conditions - Elevations
Drawing A-2	3 of 4	08/2015	Existing Conditions - Elevations
Drawing D-1	4 of 4	08/2015	Parapet Details

D. Specifications

01010	General Requirements w/Scope of Work
01 061	OSHA Safety
01 321615	Schedule
01 33 23	Shop Drawings
01 74 19	Construction Waste
02 41 00	Demolition
04 05 13	Masonry Tuck Pointing
07 22 00	Roof and Deck Insulation
07 53 23	EPDM Roof Membrane
07 60 00	Flashing and Sheet Metal
07 92 00	Joint Sealant
07 015019	Preparation for Re-Roofing

1.4 FIRE SAFETY PRECAUTIONS

See SECTION 01061.

1.5 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.

(FAR 52.236-10)

- D. Working space and space available for storing materials shall be as determined by the COR.
- 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 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 COR where required by limited working space.
 - 1. Do not store materials and equipment in other than assigned areas.
 - 2. Provide unobstructed access to Medical Center areas required to remain in operation.
 - 3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment will be permitted subject to fire and safety requirements.
 - 4. Gasoline powered cutting or abrasive tools are not permitted in contact with the structure. Electric powered tools shall be used.
 - 5. All dust and particulate shall be contained at the point of use with vacuum and enclosure systems.
- G. Phasing: To insure such executions, Contractor shall furnish the COR with a schedule per Specification Section 01321615 of approximate dates on which the Contractor intends to accomplish work in each specific area of site, building or portion thereof. In

addition, Contractor shall notify the COR two weeks in advance of the proposed date of starting work in each specific area of site, building or portion thereof. Arrange such dates to insure accomplishment of this work in successive phases mutually agreeable to Medical Center Director, COR and Contractor, as follows:

Building No. 36 will be occupied during performance of work.

- H. Construction Fence: Before construction operations begin, Contractor shall provide a self-supporting modular wire fabric and metal frame construction fence 6' (Six feet) minimum height, around and below the construction area. Remove the fence when directed by COR.
- I. When a portion of the building exterior is turned over to the Contractor, Contractor shall accept entire responsibility therefor.
 - 1. Contractor shall maintain a minimum temperature of 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 (Department of Veterans Affairs) that is 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 COR.
 - 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 COR.
 - 2. Contractor shall submit a request to interrupt any such services to COR, in writing, 48 hours in advance of proposed interruption. Request shall state reason, date, exact time of, and approximate duration of such interruption.
 - 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 COR.
 - 5. In case of a contract construction emergency, service will be interrupted on approval of COR. Such approval will be confirmed in writing as soon as practical.
- 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.
 - 2. Method and scheduling of required cutting, altering and removal of existing roads; walks and entrances must be approved by the COR.
- M. Coordinate the work for this contract with other construction operations as directed by COR. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.
- N. Work shall be in accordance with VA ICRA requirements set forth in document 600-00C-26-05 ICRA.

1.6 ALTERATIONS

- A. Survey: Before any work is started, the Contractor shall make a thorough survey with the COR and a representative of VA Supply Service, of areas of buildings in which alterations occur and areas which are anticipated routes of access, and furnish a report, signed by all three, to the Contracting Officer. This report shall list by rooms and spaces:
 - 1. Existing condition and types of doors, windows, walls and other surfaces not required to be altered throughout affected areas of buildings.
 - 2. Existence and conditions of items such as plumbing fixtures and accessories, electrical fixtures, equipment, 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 COR.
- 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 COR and/or Supply Representative, 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 01001, GENERAL CONDITIONS.

- C. Re-Survey: Thirty days before expected partial or final inspection date, the Contractor and COR 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. Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures; and, will form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this contract.
- D. Protection: Provide the following protective measures:
1. Wherever existing roof surfaces are disturbed they shall be protected against water infiltration. In case of leaks, they shall be repaired immediately upon discovery.
 2. Temporary protection against damage for portions of existing structures and grounds where work is to be done, materials handled and equipment moved and/or relocated.
 3. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately protected prior to starting work, and this protection shall be maintained intact until all work in the area is completed.
 4. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by COR. Blank off ducts and diffusers to prevent circulation of dust into occupied areas during construction. Provide and maintain clean filter media at air intakes and louvers.
 - a. Temporary construction partitions shall be installed as required to provide a smoke-tight separation between the areas that are described in phasing requirements, and adjoining areas that are occupied by Department of Veterans Affairs (VA) personnel or patients. The partitions shall be constructed of either gypsum board or treated plywood (flame spread rating of 25 or less in accordance with ASTM E84) on both sides of wood or steel studs. The partitions shall extend through suspended ceilings to the floor slab or roof above. The partitions shall be cut to fit around pipes, ducts, conduit, joists, etc. The penetrations shall be sealed with sealant, or mineral fiber insulation. Joints shall be taped and sealed. Doors in the partitions shall be solid core wood doors and shall be provided with self-closing devices. Clearance between the doors and frame or partition shall not exceed 3 mm (1/8 inch); door undercuts shall not exceed 19 mm (3/4 inch).
 - b. When temporary barriers separating occupied areas from construction areas coincide with, or intersect with exit passageways, horizontal exits, stair shafts, exit enclosures, smoke barriers, fire barriers enclosing hazardous areas, or any other type of partition or assembly that is required by NFPA 101 to have a fire-resistance rating, the integrity of the existing fire-rated construction shall be maintained at all times during construction.
 - (1) When it is necessary to remove portions of, or an entire fire-rated assembly that is to remain as part of the completed project, the removed construction shall be replaced by an assembly with an equivalent or higher fire-resistance rating. Replacement shall be given priority over other construction features.
 - (2) Penetrations of existing fire-rated assemblies resulting from construction

operations shall be sealed with a through-penetration firestop system which is listed for protection of the penetrating item and the type of barrier penetrated.

- E. Disposal and Retention: Materials and equipment accruing from work removed and from demolition of buildings or structures, or parts thereof, shall be disposed of as follows:
1. Reserved items which are to remain property of the Government are noted on drawings or in specifications as items to be stored. Items which remain property of the Government shall be removed or dislodged from present locations in such a manner as to prevent damage which would be detrimental to re-installation and reuse. Store such items where directed by COR.
 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 that 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.

1.7 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS

- A. The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the 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.

(FAR 52.236-9)

- C. Refer to Section 01568, ENVIRONMENTAL PROTECTION, 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.

1.8 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 COR. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COR 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) 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 01001, GENERAL CONDITIONS.

1.9 NOT USED

1.10 NOT USED

1.11 LAYOUT OF WORK

- A. The Contractor shall lay out the work from Government established base lines and bench marks, indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at Contractor's own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through Contractor's negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.
(FAR 52.236-17)
- B. Establish and plainly mark center lines for each building and/or addition to each existing building and such other lines and grades that are reasonably necessary to properly assure that location, orientation, and elevations established for each such addition are in accordance with lines and elevations shown on contract drawings.
- C. Following completion of general mass excavation and before any other permanent work

is performed, establish and plainly mark (through use of appropriate batter boards or other means) sufficient additional survey control points or system of points as may be necessary to assure proper alignment, orientation, and grade of all major features of work. Survey shall include, but not be limited to, location of lines and grades of footings, exterior walls, center lines of columns in directions, major utilities and elevations of floor slabs. Such additional survey control points or system of points thus established shall be checked and certified by a registered land surveyor or registered civil engineer. Furnish such certification to the COR before any work (such as footings, floor slabs, columns, walls, utilities and other major controlling features) is placed.

D. As-Built Drawings:

1. 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.
2. 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 COR's review, as often as requested.
3. Contractor shall deliver two approved completed sets of as-built drawings to the COR within 15 calendar days after each completed phase and after the acceptance of the project by the COR.

1.12 USE OF ROADWAYS

- A. For hauling, use only established public roads and roads on Medical Center property and, when authorized by the COR, 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.
- B. When certain buildings (or parts of certain buildings) are required to be completed in advance of general date of completion, all roads leading thereto must be completed and available for use at time set for completion of such buildings or parts thereof.

1.13 NOT USED

1.14 NOT USED

1.15 TEMPORARY USE OF EXISTING ELEVATORS

- A. Contractor will not be allowed the use of existing elevators. Outside type hoist shall be used by Contractor for transporting materials and equipment.

1.16 NOT USED

1.17 TEMPORARY TOILETS

- A. Provide where directed, (for use of all Contractor's workmen) ample temporary sanitary toilet accommodations with suitable sewer and water connections; or, when approved by COR, provide suitable dry closets where directed. Keep such places clean and free from flies and all connections and appliances connected therewith are to be removed prior to

completion of contract, and premises left perfectly clean.

- B. 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.

1.18 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. Contractor shall install meters at Contractor's expense and furnish the Medical Center a monthly record of the Contractor's usage of electricity as hereinafter specified.
- D. 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. Obtain heat by connecting to Medical Center heating distribution system. Steam is available at no cost to Contractor. Contractor is responsible for all costs in connection and disconnections.
- E. Electricity (for Construction and Testing): Furnish all temporary electric services. 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.
- F. Water (for Construction and Testing): Furnish temporary water service.
 - 1. Obtain water by connecting to the Medical Center water distribution system. 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 COR's discretion) of use of water from Medical Center's system.

1.19 NOT USED

1.20 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.

1.21 INSTRUCTIONS

Contractor shall furnish Maintenance and Operating manuals and verbal instructions when required by the various sections of the specifications and as hereinafter specified.

1.22 NOT USED

1.23 RELOCATED ITEMS

- A. Contractor shall disconnect, dismantle as necessary, remove and reinstall in new location, all existing 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 COR.
- 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 here in before under paragraph "Abandoned Lines".
- D. Provide all mechanical and electrical service connections, fittings, fastenings and any other materials necessary for assembly and installation of relocated equipment; and leave such equipment in proper operating condition.
- 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.

1.24 NOT USED

1.25 NOT USED

1.26 NOT USED

1.27 NOT USED

1.28 NOT USED

1.29 NOT USED

1.30 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 COR verbally, and then with a written follow up.

-END OF SECTION-