

## **MRI RF and Magnetic I.V. Door replacements**

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#### **1.0 SCOPE OF WORK**

1. Contractor shall supply all labor, materials, tools and equipment necessary to provide and install two new radio-frequency magnetic I.V. slotted doors.
2. This project shall include all labor, materials, tools and equipment as required per this scope of work, drawings and specifications.
3. Design shall comply with applicable sections of the Technical Information Library on the Office of Construction and Facilities Management (CFM) website [www.cfm.va.gov](http://www.cfm.va.gov) in addition to NFPA, OSHA, ANSI, JCAHO, VA Standards and all other applicable Federal, State and Local code requirements.
4. The VA project manager shall pre-approve all submittals, shutdowns, scheduled work, and infection control measures.
5. All areas requiring interior design coordination shall be coordinated through the VA Interior Design group.
6. The work shall conform to established building practices as outlined in the Ohio Building Code, NFPA, NEC and provided VA specifications.

#### **2.0 GENERAL CONDITIONS**

1. Full time onsite job superintendent dedicated to this project and project management support.
2. Provide O&M manuals at completion of project. Submittals for materials to be used shall be submitted and approved prior to commencement of construction.
3. Construction site normal work hours are 7:00 am to 8:00 pm. Any work completed outside of these hours must be approved and coordinated with VA project manager. No work on Federal Holidays unless approved by VA project manager. The following are designated Federal Holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day. When a holiday falls on a Sunday, the following Monday is observed; and when a holiday falls on a Saturday, the preceding Friday is observed. Any other day so designated by the President shall be considered a holiday as well.
4. Construction shall not interrupt daily operations of VA Medical Center including noise, utility shutdowns, debris removal and all construction related activities. Disruptive work may need to occur during off hours. Coordinate all activities with VA project manager.
5. Maintain Class III infection control measures as detailed in attachment, General Requirements, Specs Section 1.8, including maintaining negative air inside the construction barriers while in Class III status.
6. Delivery and storage of materials to be coordinated with VA project manager. Use of and costs for service elevator operations (if needed) to be coordinated with VA and paid for by contractor.
7. Maintain a secure construction site with controlled access.
8. Any work in public corridors may need to be done after normal work hours. An above ceiling work permit must be approved and provided by the VA project manager. All above ceiling work requirements must be followed.
9. Minor shutdown requests for any utilities affected must be submitted at least 5 working days in advance.

10. Major shutdown requests for any major disruption to any utilities must be submitted at least 15 working days in advance.
11. All employees of the general contractor and subcontractors shall comply with VA security program and be identified with displayed badges including name, project, and employer.
12. Prior to commencing work, general contractor shall provide proof that an OSHA certified competent person will maintain presence at the work site and that all employees of the general contractor shall have the appropriate required hours of OSHA Construction Safety Course.
13. VA Site Specific Safety Plan shall be completed by the contractor and submitted for review and approval by the VA.
14. Prevent accidental operation of all smoke detectors with use of temporary covers.
15. Perform and safeguard hot work operations in accordance with NFPA 241 and 51B, coordinate with VA project manager and obtain hot work permits from the VA at least 48 hours in advance.

### **3.0 ARCHITECTURAL**

1. Any damaged finishes shall be repaired and match existing conditions and as specified by VA Interior Design.
2. Fill and patch any holes remaining in the floor, ceiling slab, and any walls penetrated during the room prep to match existing ratings after removal of existing equipment and/or as a result of construction demolition. Floor to floor penetrations shall be rated 2-hour.
3. Patch all openings in this room with RF and magnetic shielding to match existing RF and magnetic conditions.
4. All demolished items not retained by the owner shall be removed from the site and disposed of properly by contractor.
5. Remove ceiling system, if required, to allow for installation and/or rework of new ceiling system. Damaged ceiling system to be replaced to match existing system.

### **4.0 ELECTRICAL**

1. All electrical work shall be provided by the contractor and shall meet NEC.
2. For items being demolished remove all associated wiring, conduit, etc. back to the source and any demolished electrical items that are not being reused for the new doors.
3. Conduits occur in the wall areas and above ceiling adjacent to the existing door frames that may require relocation by the contractor. This work shall be coordinated with the shielding vendor.

### **5.0 MECHANICAL**

1. If fire suppression system is affected during construction, provide temporary heat detection during interim.
2. Fire alarm and smoke detection removed during construction must be re-installed, programmed, and tested.

### **6.0 STRUCTURAL**

1. Unistrut bracing shall be expected on both sides of the existing doors and above ceiling. Unistrut may have to be reworked and/or relocated to coordinate with new door installations.

### **7.0 RADIOFREQUENCY AND MAGNETIC SHIELDING**

1. Conduct initial diagnostic test to determine the present benchmark performance of the existing RF/Magnetic shielding.
2. Rework existing rough shield openings and/or provide new RF/Magnetic shielding as required to coordinate with new door installations.
3. Provide a final diagnostic test to confirm RF/Magnetic shield meets or exceeds the benchmark diagnostic test.
4. ETS-Lindgren Auto-Seal II with I.V. slots is the basis of design for the new door. Provide this door or an approved equal.

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