

SECTION 28 13 50
BASIC DOOR ACCESS CONTROL REQUIREMENTS

PART 1 - GENERAL

DESCRIPTION OF WORK **NOTE: DOOR ACCESS CONTROL EQUIPMENT AND DEVICES ~~ARE~~ SHALL BE DELETED AS PART OF ALTERNATE 4. (~~PROVIDE~~ CONDUIT, BOXES AND PULLWIRE FOR ROUGH-IN ~~ONLY UNDER BASE BID~~ SHALL BE PROVIDED).**

1.1

- A. The contractor shall install a door access control system as shown on the drawings. The VA Reno already has an existing door access control system with related software, software licensing and card printer. The system installed by the contractor shall match and be compatible with the existing installed system. The existing access control system including software and controllers is manufactured by Lenel and the card readers are manufactured by HID Global. Other access control devices and cabling are listed in the following specifications.
- B. Include all labor, materials, tools, transportation, storage costs, excavation, training, equipment, insurance, temporary protection, permits, inspections, taxes and all necessary and related items required to provide a complete and operational security and card access control system as shown on the Drawings and described in the Specifications.

1.2 QUALITY ASSURANCE

- A. The Contractor installing security equipment and cabling must have a minimum of (5) years experience installing security and card access systems of similar size and scope.
- B. The Contractor must be licensed by the Nevada State Contractors Board.
- C. The Contractor shall be a trained and authorized installer for the Lenel "OnGuard" equipment and software.

1.3 SUBMITTALS

- A. Manufacturer's Data Sheets
 1. Submit minimum 6 copies. Architect/Engineer will retain a minimum of 3 copies and return balance to Contractor.
 2. Data sheets must be bound in 3-ring binders. Provide a table of contents for each binder indicating the products submitted. Products listed in the table of contents should be in the same order as they appear in the Specifications.
 3. Where pre-printed data covers more than one distinct item, mark data sheet to clearly indicate which item is to be provided. Delete or cross-out non-applicable data.
- B. Shop Drawings
 1. Submit floor plans indicating all security devices installed at each door.
 2. Provide a spreadsheet for each security device and its ID (point) within the security system.
 3. Submit point-to-point wiring diagrams and block diagrams showing all door security devices, power supplies, relays, card reader panels, security panel I/O boards, battery backups, etc.
 4. Submit layout drawings of the components mounted in the Hoffman security cabinet including security panels, card access controllers, power supplies, battery chargers, relays, batteries, cable management wireways, overhead gutters, data outlets, electrical outlets, etc.

5. Submit security panel battery calculations.
6. Submit (1) reproducible and (3) blue lines. Architect/Engineer will retain a minimum of 3 copies and will return the reproducible to the Contractor.
7. Submit shop drawings for all items identified in Section 28 13 53.
- C. Test Reports
 1. Submit cable and security device test reports signed and dated by the technician performing the testing.
- D. Other Submittals
 1. See individual Specification Sections for requirements.
- E. Substitutions
 1. No material substitutions will be allowed except by written acceptance from the Consultant. Specified catalog numbers are used for description of equipment and standard of quality only. Equivalent material will be given consideration only if adequate comparison data including samples are provided.

1.4 REGULATIONS AND CODE COMPLIANCE

- A. The Contractor will comply with all applicable governmental regulations including Federal, State, City, and local applicable codes and ordinances.
- B. References to codes and standards called for in the Specifications refer to the latest edition, amendments, and revisions to the codes and standards in effect on the date of these Specifications.
- C. All work and materials shall conform to and be installed, inspected and tested in accordance with the governing rules and regulations of the security industry, as well as federal, state and local governmental agencies, including, but not limited to the following
 1. ANSI/NFPA-70, 2002 -- National Electrical Code (NEC).
 2. Underwriter's Laboratories, Inc. (UL) 294 - Access Control Systems.
 3. Underwriter's Laboratories, Inc. (UL) 1076 - Burglar Alarm and Systems
 4. Federal Communications Commission (FCC).
 5. Americans with Disabilities Act (ADA).

1.5 WARRANTY AND SERVICES

- A. The complete Security System and all portions thereof, shall be guaranteed to be free from defects in workmanship and materials for a minimum period of one (1) year from date of final acceptance. Promptly remedy such defects and any subsequent damage caused by the defects or repair thereof at no expense to the owner.
- B. The contractor shall have service facilities near the project site and shall respond to service calls onsite within a four (4) hour period after receipt of a service call. This includes weekends and holidays. At the time of service, the contractor shall provide all equipment, material and personnel necessary to perform all repairs.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIALS MINIMUM REQUIREMENTS

- A. Electrical equipment and systems shall meet UL Standards and requirements of the National Electric Code. This listing requirement applies to the entire assembly. Any modifications to equipment to suit the intent of the Specifications shall be performed in accordance with these requirements.
- B. Equipment shall meet all applicable FCC Regulations.

- C. All materials, unless otherwise specified, shall be new and be the standard products of the manufacturer. Used equipment or damaged material will be rejected.
- D. The listing of a manufacturer as "acceptable" does not indicate acceptance of a standard or cataloged item of equipment. All equipment and systems must conform to the Specifications.

2.2 WORKMANSHIP, SUBSTITUTIONS, WARRANTY

- A. Materials and workmanship shall meet or exceed industry standards and be fully guaranteed for a minimum of one (1) year from the date of final acceptance. Cable integrity and associated terminations shall be thoroughly inspected, fully tested and guaranteed free from defects, transpositions, open shorts, tight kinks, damaged jacket insulation, etc.
- B. All labor must be thoroughly competent, skilled and trained, and all work shall be executed in strict accordance with the best practice of the trades.
- C. The Contractor shall be responsible for and make good, without expense to the Owner, any and all defects arising during this warranty period that are due to imperfect materials, improper installation or poor workmanship.
- D. After the Contract is awarded, requests to substitute for specified materials shall be submitted by the Contractor to the Owner or Owner's Representative within seven (7) days, complete with reasons for the substitution and savings which accrue to the Owner if the substitutions are approved. Substitutions after Contract award will be considered only if the substitutions are equal or superior to the products specified.
- E. No material substitutions will be allowed except by written acceptance from the Consultant. Specified catalog numbers are used for description of equipment and standard of quality only. Equivalent material will be given consideration only if adequate comparison data including samples are provided.
- F. Approval of alternate or substitute equipment or material in no way voids the Specification requirements.
- G. Under no circumstances shall the Owner be required to prove that an item proposed for substitution is not equal to the specified item. It shall be mandatory that the Contractor submit to the Owner or Owner's Representative all evidence to support the contention that the item proposed for substitution is equal to the specified item. The Owner's decision as to the equality of substitution shall be final and without further recourse.

2.3 FACTORY ASSEMBLED PRODUCTS

- A. Manufacturers of equipment assemblies that include components made by others shall assume complete responsibility for the final assembled unit.
 - 1. All components of an assembled unit need not be products of the same manufacturer.
 - 2. Component parts, which are alike, shall be from a single manufacturer.
 - 3. Components shall be compatible with each other and with the total assembly for the intended service.
 - 4. Components of equipment shall bear the manufacturer's name or trademark model number and serial number on a name plate securely affixed in a conspicuous place, or cast integral with, stamped or otherwise permanently marked upon the components of the equipment.

- a.
- B. Major items of equipment that serve the same function must be the same make and model.
- C. Equipment and materials installed shall be compatible in all respects with other items being furnished and with existing items so that a complete and fully operational system will result.
- D. Maximum standardization of components shall be provided to reduce spare part requirements.

PART 3 - EXECUTION

3.1 ROUGH-IN

- A. Before construction work commences, the Contractor shall visit the site and identify the exact routing of cabling from the doors to the security panels.

3.2 CUTTING AND PATCHING

- A. The Contractor shall be responsible for all cutting, patching, coring and associated work to complete the security system. Patch adjacent work disturbed by installation of new work including insulation, walls and wall covering, ceiling and floor covering or other finished surfaces.

3.3 FIRESTOPPING

- A. All penetrations through fire-rated building structures (walls and floors) shall be sealed with an appropriate fire stop system. This requirement applies to through penetrations (complete penetration) and membrane penetrations (through one side of a hollow fire rated structure). Any penetrating item i.e., riser slots and sleeves, cables, conduit, cable tray, and raceways, etc. shall be properly fire stopped.
- B. Fire stopping References:
 - 1. ASTM E814, Standard Method of Fire Tests of Through-Penetration Fire Stops.
 - 2. ASTM E 119, Fire Tests of Building Construction and Materials (for fire-rated architectural barriers).
 - 3. 2002 NFPA National Electrical Code, Section 800-52, Paragraph 2(b), Spread of Fire and Products of Combustion.

3.4 CONCEALMENT

- A. All security cable is to be routed in conduit. Drill and/or core walls, floors and ceilings as required to route raceway. Exterior penetrations shall be sealed and made watertight. Exposed conduit shall be routed tight to structure and painted to match existing surfaces.

3.5 GENERAL INSTALLATION REQUIREMENTS

- A. Coordinate ordering and installation of all equipment with long lead times or having a major impact on work by other trades so as not to delay the job or impact the schedule.
- B. Where mounting heights are not dimensioned, install systems, materials and equipment to provide the maximum headroom possible.
- C. Set all equipment to accurate line and grade, level all equipment and align all equipment components.
- D. Provide all scaffolding, rigging, hoisting and services necessary for erection and delivery of equipment and apparatus furnished into the premises.
- E. All work shall be installed level and plumb, parallel and perpendicular to other building systems and components.
- F. The Contractor shall replace all ceiling tiles damaged by work performed as part of the security contract.

VA SIERRA NEVADA HEALTH CARE SYSTEM
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RBB PROJECT #1017200

VA PROJECT #654-317
VA CONTRACT #VA 261-P-0933

G. Storage and security of material and equipment shall be the
responsibility of the Contractor.

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