

DOCUMENT 00 90 00
ADDENDUM

ADDENDUM No.: 1

DATE: April 26, 2023

RE: NORTHWOOD TECHNICAL COLLEGE
RICE LAKE OFFICE RENOVATION - REBID
1900 COLLEGE DERIVE
RICE LAKE, WISCONSIN 54868
PROJECT NO. 22039

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 2023. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 1 page, 0 documents, 1 section, and 0 drawings.

CHANGES TO SPECIFICATIONS:

1. Section 28 13 00 Door Access Control
 - a. See the new section included in this addendum.

CHANGES TO DRAWINGS

2. Sheet E001 ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS 30"x42"
 - a. See the narrative, immediately below, describing revisions to the sheet.
 - b. Add general note 23: Provide 4 additional data drops to camera locations to be determined by the owner. Cabling to originate in the area data closet.

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SECTION 28 13 00
DOOR ACCESS CONTROL

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section specifies a Door Access control system including the following components:
 - 1. Door Hardware Power Supply.
 - 2. Card Readers.
 - 3. Exit Devices.
 - 4. Door Contacts.
 - 5. System Wire and Cable.
- B. Related Sections:
 - 1. Section 08 71 00 - Door Hardware.

1.03 SYSTEM DESCRIPTION

- A. System shall perform the following functions:
 - 1. Provide access control to selected exterior doors.
 - 2. Provide access control to selected interior rooms.
 - 3. Provide interconnection to power door operators.
 - 4. Provide emergency overrides for doors with magnetic locks within egress paths.
 - 5. Wire and cable.
 - 6. System programming per Owner's requirements.

1.04 SUBMITTALS

- A. Refer to Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes (including available colors) for each product indicated and describe features and operating sequences, both automatic and manual, for the following:
 - 1. Door Hardware Power Supply.
 - 2. Card Readers.
 - 3. Equipment Enclosures and Back Boxes.
 - 4. Accessory Components.
- C. Shop Drawings:
 - 1. Wiring diagrams to detail power, signal, control, and correction circuits. Identify terminals and wiring color-codes to facilitate installation, operation, and maintenance. Indicate recommended wire types and sizes, and circuiting arrangements for field-installed system wiring. Show protection from overcurrent, static discharge, and voltage surge.
- D. Operation and Maintenance Data: For door access control to include in emergency, operation, and maintenance manuals.

1.05 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain each type of hardware from the same supplier.
- B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 8 hours response time, a service center capable of providing training, parts, and emergency maintenance repairs.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Comply with NFPA 70 for components and installation.

1.06 PRODUCT DELIVERY

- A. Mark each item as to contents and location in the building for which it is intended.

- B. Ship prepaid the hardware templates and/or physical hardware, as required, to metal door and frame manufacturers and wood door manufacturers.
- C. Deliver drawings, templates and directions for installation of shell housing for high security lock box when unit is to be recessed mounted in poured-in-place concrete or masonry walls.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. HID Corp.; Corporate 1000: www.hidglobal.com.
 2. SimplexGrinnell: www.simplexgrinnell.com.
 3. Part numbers shown on Sheet E001.

2.02 DOOR HARDWARE POWER SUPPLY

- A. Provide 120V input, 24V output power supplies rated to serve security devices on (8) doors.

2.03 CARD READER

- A. The primary type of reader shall be a high security proximity type of reader. The proximity reader shall be connected directly to the main controller without the need for an option card and it shall not require a special interface for data formatting. The proximity reader shall read a unique identification number from each card or tag when the card or tag is presented to the surface of the reader, without a need for the card or tag to touch the reader.
- B. The controller will support a variety of reader styles:
 1. A door frame reader (mullion reader) that can be mounted directly on a standard metal mullion doorframe (1.75 inches or 4.5 cm).
 - a. The read range using a standard proximity card shall be up to 4 inches (10 cm).
 - b. The dimensions of the reader shall be 3.25 inches high by 1.40 inches wide by 0.375 inches deep (8.2 cm H x 3.5 cm W x 0.96 cm D).
 - c. The reader shall be of a weatherproof, potted, rugged design.
 - d. The reader shall provide a multi-color LED and a sound alert for status annunciation.
 2. A single gang mount, wall switch reader that can be mounted onto a metal or plastic USA electrical junction box or on a non-metallic flat surface.
 - a. The read range using a standard proximity card shall be up to 6.00 inches (15 cm).
 - b. The dimensions of the reader shall be 4.40 inches high by 3.00 inches wide by 0.375 inches deep (11.13 cm H x 7.62 cm W x 0.96 cm D).
 - c. The reader shall be of a weatherproof, potted, rugged design.
 - d. The reader shall provide a multi-color LED and a sound alert for status annunciation.
 3. A medium range reader that can be mounted to most building materials except metal.
 - a. The read range using a standard proximity card shall be up to 14 inches (35cm).
 - b. The dimensions of the reader shall be 8.50 inches high by 6.00 inches wide by 0.75 inches deep (21.59 cm H x 15.24 cm W x 1.91 cm D).
 - c. The reader shall be of a weatherproof, potted, rugged design.
 - d. The reader shall provide a multi-color LED and a sound alert for status annunciation.
- C. The operating temperature of all readers shall be at least -22° F to 150° F (-30°C to 65°C).
- D. Accidental or intentional transmission of radio frequency signals into the reader shall not compromise the security of the access control system.
- E. The electrical connection between the reader and the controller shall be a color-coded, six conductor, #24 AWG or greater gauge, shielded cable. No coaxial cable or special connectors shall be required.

2.04 EXIT DEVICES

- A. Exit devices will be provided with the doors, see hardware specifications.
- B. Provide 24V power supply for Electric Latch Retraction to use in conjunction with automatic door operators.

2.05 DOOR CONTACTS

- A. Most door contacts will be provided with the doors, see hardware specifications.
- B. Security system supplier shall provide magnetic door contacts suitable for overhead door operation.

2.06 MAGNETIC LOCKS, ELECTRIC STRIKES, ELECTRIC LATCHES, AND CONTROLS

- A. Supplied and installed by others, connection to security system by this Contractor. Coordinate with door hardware supplier and door hardware installer.
- B. Provide 24V power supply to Magnetic locks, Electric strikes, and Electronic latches from Door Hardware Power Supply located on same floor.

2.07 MAGNETIC LOCK OVER RIDE

- A. DPST, round pushbutton head.
- B. Red high-impact plastic cover with text "EXIT" clearly visible.
- C. Maintained Contacts, NEMA Rated Operator.
- D. Shall interrupt power to magnetic lock (bypassing control system).

2.08 REQUEST TO EXIT DEVICES

- A. Exit Rim Devices (where indicated) are supplied and installed by door hardware installer, connection to security system by this Contractor.

2.09 WARRANTEE

- A. A two-year unconditional warranty for the controller electronics.
- B. A lifetime warranty for the doorframe and single gang mount readers.
- C. A lifetime warranty for the medium and extended range proximity readers.

2.10 WIRE AND CABLE

- A. Conductors: Insulated copper, with minimum sizes as recommended by the connected device manufacturer. Voltage drop for signal and control circuits shall not exceed 10 percent under peak load conditions.
- B. 120-V AC and Class 1 Signal and Control Circuits: Stranded single conductors of size recommended by system manufacturer. Materials and installation requirements are specified in Section 26 05 19 - Low-Voltage Electrical Power Conductors and Cables.
- C. Classes 2 and 3 Signal and Control Circuits: Single conductor or twisted-pair cable, shielded.
- D. Data Circuits: Category 6 minimum, unshielded, twisted-pair cable, unless manufacturer recommends shielded cable.
- E. Conductor Color-Coding: Uniformly identified and coordinated with wiring diagrams.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Wiring: Install 60-Hz wiring according to NFPA 70. Install data cable complying with TIA/EIA-568-A. Install number of conductors recommended by system manufacturer for functions indicated, and as follows:
 - 1. Conceal wiring except in unfinished spaces.
 - 2. Wiring Method: Install wiring in raceways except for Classes 2 and 3 remote-control and signaling circuits, as defined in NFPA 70, if installed in accessible ceiling spaces and hollow gypsum-board partitions, where unenclosed wiring method may be used. Install listed plenum cable for Classes 2 and 3 wiring in environmental air spaces, including plenum ceilings.
- B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess; use lacing bars and distribution spools.

3.02 ELECTRICAL CONNECTIONS

- A. Make splices, taps, and terminations on numbered terminal strips in junction, pull and outlet boxes, terminal cabinets, and equipment enclosures.

- B. Ground equipment, conductor and cable shields to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.

3.03 IDENTIFICATION

- A. Comply with Division 26 Section "Basic Electrical Materials and Methods."
- B. Color-code wire and apply wire and cable marking tape to designate wires and cables so they are uniformly identified and coordinated with wiring diagrams throughout the system.

3.04 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including connections and to assist in programming and field testing.
- B. Perform the following field adjustments, tests, and inspections and prepare test reports:
 - 1. Perform operational-system tests to verify compliance with the Specifications and make adjustments to bring system into compliance.
 - 2. Verify that units and controls are properly labeled, and interconnecting wires and terminals are identified.
- C. Remove and replace malfunctioning units and retest as specified above.

3.05 PROGRAMMING AND ADJUSTMENTS

- A. Program system according to Owner's requirements. Set system so signal devices operate on Owner-required schedules and are activated for durations selected by Owner. Program equipment-control output circuits to suit Owner's operating schedule for equipment controlled.
- B. Adjust sound-output level of adjustable signal devices to suit Owner's requirements.

3.06 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain door access control system components. Provide 3 hours of training.

END OF SECTION