

SECTION 28 16 00

INTRUSION DETECTION SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section and TY-Drawings Identify the Requirements, Technical Design, and Specifications for the Intrusion Detection System for the District Wide Upgrades, located in Pflugerville, Texas, ("Owner").
- B. The Intrusion Detection System (IDS) as specified is an industry-standard installation and includes devices, licensing as may be required, keypad, motion sensors, door position sensors, and all intrusion detection cabling, pathways/conduit systems and all necessary supplies and tools as specified.
- C. Contractor shall include materials, equipment, and labor necessary to provide a complete and functional turn-key Intrusion Detection System regardless of any items not listed or described in this specification or associated drawings.

1.2 RELATED REQUIREMENTS

- A. Work required by this Section shall meet the General Requirements

1.3 QUALITY ASSURANCE

- A. Contractor Qualifications
 - 1. The Contractor shall possess all relevant Manufacturer Certifications for both the company and individual technicians prior to submitting a bid for the work.
 - 2. The Contractor shall have been in business for a minimum of five (5) years.
 - 3. The Contractor shall have a local office with local technicians and an adequate workforce to complete this project within a one-hundred-mile radius of the project site.
 - 4. The Contractor shall have completed a minimum of five (5) projects similar in size and scope to the Owner's installation, where the systems have been in continuous satisfactory operation for at least one (1) year.
 - 5. Subcontractors shall be identified at the time of bid and comply with the requirements and intentions of these specifications, associated drawings, and related contract documents.
- B. Personnel Qualifications
 - 1. Project Manager/Quality Control Manager - At all times during the progress of the Work, Contractor (or Subcontractor) responsible for the Work of this Section shall assign a competent full-time employee (who shall be available for all on-site coordination meetings).
- C. The Contractor shall possess all relevant Manufacturer Certifications (i.e. intrusion detection systems, hardware installation, software installation and programming) for both the company and individual technicians prior to submitting a bid for the work.

1.4 SUBMITTALS

- A. Pre-Bid
 - 1. Refer to Division 28 00 10 for all specification deviation requests.
 - 2. Submit Contractor and Personnel Qualifications documentation indicating that the requirements of the Quality Assurance paragraph of this Section and Section 28 00 10 are met.
- B. Bid

1. Contractor and Personnel Qualifications
 - a. Submit Contractor and Personnel Qualifications documentation indicating that the requirements of the Quality Assurance paragraph of this Section are met. Indicate quantity of full-time local technicians within one-hundred-mile radius of Project Site.
 - b. Also include list of three Contractor-installed projects of a similar size and scope that have been in operation for at least one year. Provide the following information for each project:
 - 1) Project Name and Location
 - 2) Project Start and Completion Dates
 - 3) Project Start and Completion Costs
 - 4) Brief Description of Project
 - 5) Client Point of Contact Name and Phone Number

C. Pre-Construction

1. Pre-Construction Submittal for this Section shall include the following:
 - a. Contractor Qualifications
 - 1) Certifications for Project Manager and all technicians expected to work on the Project.
 - 2) Documentation Contractor has been in business for at least five years.
 - 3) Address of Contractor's local office within one-hundred-mile radius of Project Site.
 - 4) Subcontractors – list sub-contractors performing any Work specified in this Section. List shall clearly identify the sub-contractor's legal name and address, the scope of work to be performed by the sub-contractor and the overall percentage of the Work being provided by the subcontractor. If there are no sub-contractors performing any Work, submit a statement on company letterhead clearly indicating no sub-contractors will be performing any Work specified in this Section.
 - b. Bill-of-Materials
 - c. Product Data
 - d. Shop Drawings to include:
 - 1) Device locations
 - 2) Cable Type and Pathways
 - 3) Panel Termination Schedule
 - 4) Elevation Drawings to illustrate the associated devices and the heights at which they will be installed.
 - 5) Naming Convention Information
 - 6) Zoning, as specified in Part 3.

1.5 SUBMITTAL REQUIREMENTS

A. Pre-Installation Submittal

1. Contractor shall not order, purchase, or install any equipment until pre-installation submittals have been accepted in writing by the Consultant.
2. The Contractor is responsible for notifying and obtaining written approval via RFI from the Consultant/Owner of any proprietary devices, software, and/or installation processes.
3. Contractor shall ensure submittals are submitted in 10 business days to ensure all products can be ordered and received on site in order to not cause any delays. Any products having long lead times (more than 60 days) that may negatively impact the schedule shall be clearly identified in writing so the review and approval can be expedited.

1.6 PROJECT CLOSEOUT

A. Preliminary Project Closeout submittal:

1. Submit the following a minimum of two weeks before Substantial Completion:
 - a. Memo/letter indicating that the Work is nearing completion and ready for the Final Site Observation by the Design Consultant.
 - b. Approved Shop Drawings or field Drawings with actual reader locations, cable pathways and labels, and head-end locations. BIM/CAD-produced drawings converted to PDF format. Provide 30"x42" laminated shop drawings, for each telecom room serving a given area.

- B. Final Project Closeout submittal for this Section shall include the following:
1. Bill-of-Materials / Product Index – include column indicating any materials or equipment with a manufacturer's warranty longer than one year.
 2. Product Data
 3. Operation and Maintenance Data
 4. Warranty Documentation
 - a. For any materials or equipment provided by the Contractor with a manufacturer's warranty longer than one year, include manufacturer documentation.
 5. Record Drawings ("As-Built")

1.7 COORDINATION

- A. Preinstallation Meeting / Coordination with Owner
1. After Bid and before Pre-Construction Submittals, request a Pre-installation Meeting with General Contractor, Design Consultant, and Owner regarding Work specified in this Section.
 - a. This meeting is meant to:
 - 1) Review Scope of work, schedule, and escalation procedures.
 - 2) Establish Owner's preferences and expectations and provide direction for items noted as "Coordinate with Owner."
 - 3) Provide a Work schedule, including key commissioning dates for programming, as required for system operation.
 2. Contractor shall document the meeting and send Meeting Minutes to Owner and Design Consultant for sign-off.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS

- A. Unless otherwise stated, all software and licensing shall be for the most current, up to date version of the system provided.
- B. Consultant will have final determination of acceptability of all proposed equipment and must approve submitted equipment prior to purchase or installation.
- C. Proposed equivalent items must be approved in writing by the Consultant prior to purchase or installation. Proposed equivalent items must meet or exceed these specifications and the specifications of the specified item.
- D. In the event a manufacturer's specified product or part number has changed or is no longer available, Contractor shall submit a formal RFI for an appropriate substitute.
- E. For listed products with no part number specified, Contractor shall provide a product that meets the performance requirements of these specifications, industry standard practices, and intended application.
- F. Labels on all cabling, materials, and equipment must indicate a nationally recognized testing laboratory.
- G. Original Equipment Manufacturer (OEM) documentation must be provided to the Consultant which certifies performance characteristics and compliance with ANSI/TIA/EIA 568-C standards where applicable.
- H. Contractor shall review all products specified and required for this project to determine if there are any lead times for any products that may cause any delay. Contractor shall clearly identify any concerns with lead times in writing to the Consultant. If the Contractor does not identify any concerns with products having long lead times, it will be understood there are no long lead time issues, and the Contractor will have all products on-site when needed to complete the job as per the project schedule.