

PART 1 - GENERAL

1.1 ACTION AND
INFORMATIONAL
SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for access controls and equipment and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.
 - .2 Shop drawings to indicate project layout, including details.
 - .1 Submit complete equipment list with specification sheet.
 - .3 Manufacturer's Instructions: submit manufacturer's installation instructions.

1.2 CLOSEOUT
SUBMITTALS

- .1 Operation and Maintenance Data: submit operation and maintenance data for access controls and equipment for incorporation into manual.
 - .1 Include:
 - .1 System configuration and equipment physical layout.
 - .2 Functional description of equipment.
 - .3 Instructions of operation of equipment.
 - .4 Illustrations and diagrams to supplement procedures.
 - .5 Operation instructions provided by manufacturer.
 - .6 Cleaning instructions.

1.3 DELIVERY,
STORAGE AND
HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
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- 1.3 DELIVERY,
STORAGE AND
HANDLING
(Cont'd)
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
 - .3 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect access controls and equipment from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
 - .4 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials.

- 1.4 WARRANTY
- .1 Manufacturer's Warranty: submit, for Departmental Representative's acceptance, manufacturer's standard warranty document executed by authorized company official.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Slide Gate Operator: 208 VAC, single phase motor complete with weatherproof enclosure, to be installed by qualified personnel. The following accessories to be included:
 - .1 Remote controls for vehicles. Confirm number of remotes with Departmental Representative.
 - .2 Proximity card readers complete with access cards and dual height mounting posts. Confirm number of access cards with Departmental Representative.
 - .3 Edge sensors installed on both edges of cantilever gate.
 - .4 Three button control station.
 - .2 Design Criteria:
 - .1 Design access control and security access systems using only ULC/UL listed products.

- 2.1 MATERIALS .2 (Cont'd)
- (Cont'd)
- .2 Design system to provide ease of operation, servicing, maintenance, testing and expansion of additional services.

PART 3 - EXECUTION

- 3.1 INSTALLATION: .1 Install components in accordance with manufacturer's written installation instructions to locations, heights and surfaces shown on reviewed shop drawings.
- SECURITY ACCESS
- .2 Install required boxes in inconspicuous accessible locations. Confer with site commissionaires and project manager, OPI about preferred location.
- .3 Conceal conduit and wiring.

- 3.2 SITE TEST AND .1 Perform verification inspections.
- INSPECTION
- .1 Provide all necessary tools, and equipment.
- .2 Pretesting procedure:
- .1 Verify (utilizing an approved spectrum analyzer and test equipment) that system is fully operational and meets all system performance requirements of this specification.
- .3 Technical verification: purpose to ensure that all systems and devices are properly installed and free of defects and damage. Technical verification includes:
- .1 Connecting joints and equipment fastening.
- .2 Compliance with manufacturer's specification, product literature and installation instructions.
- .4 Operational verification: purpose to ensure that devices and systems' performance meet or exceed established functional requirements. Operational verification includes:
- .1 Operation of each device individually and within its environment.
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