Specification Section 02831

2150 Pedestrian Swing Gate

1. GENERAL

1.1. Tymetal 2150 Pedestrian Swing Gate System with Manual Lock:

1.1.1. The work in this section consists of furnishing all labor, materials, equipment and appliances necessary to complete installation of swing gates required for this project in strict accordance with this section of specifications and drawings.

1.2. Submittal:

1.2.1. Provide manufacturer's catalogue cuts with printed specifications and installation instructions.

1.2.2. Deliver two copies of operation and maintenance data covering the installed products, to the Director's Representative. Include name, address and telephone number of the nearest fully equipped service organization.

1.3. Shop Drawings:

1.3.1. Include complete details of gate construction, gate height, post spacing dimensions and unit weights of supporting frame and concrete footing details.

2. PRODUCTS

2.1. Manufacturers

2.1.1. The 2150 Pedestrian Swing Gate System as manufactured by The Tymetal Corp. 800-328-4283.

2.2. System Dimensions

2.2.1. Each gate shall have a clear gate opening width of [3 feet 10 inches], [4 feet 0 inches] or [5 feet 0 inches] and the clear gate opening height of 7 feet 0 inches.

2.3. System Function

2.3.1. System is designed as an exterior security swing gate.

2.3.2. When device is in the closed position, it shall be impossible for the gate to be opened except by mechanical operations provided.

2.3.3. Locking to be accomplished by means of a prison dead lock.

2.3.4. The swing gate system shall be equipped with a door closer.

2.3.5. If required, a door position switch shall be supplied.

2.4. System Components

2.4.1. Chain Link Fence Fabric: Shall be 2" mesh x 9 gauge aluminum coated steel in accordance with ASTM A491. [Optional gate filler (example: welded wire steel)

can be added to match the fence system. Filler by others]

2.5. Fence Fittings:

2.5.1. Tension Bars: Galvanized steel in accordance with ASTM F 626

2.5.2. Tie Wires: 9 gauge aluminized or galvanized steel.

2.6. Coating:

2.6.1. The entire frame and door assembly shall be hot-dip galvanized after welding.

2.7. Hinges:

2.7.1. Furnish two hinges per gate. Tymetal hinges shall have a thrust capacity (door weight) of 600 lbs per pair. Hinge finish shall be zinc plate.

2.8. Door Closer:

2.8.1. Case and internal parts steel and cast iron with constant viscosity liquid from 120 degrees F to -30 degrees F. Rust inhibiting paint shall be applied.

2.9. Prison Dead Lock:

2.9.1. Mechanical dead lock, keyed both sides. The lock shall have five (5) tumblers and three keys per key code.

2.10. Door Pulls:

2.10.1. Door pulls shall be a Tymetal standard pull.

2.11. Door Position Indicator Switch:

2.11.1. Rotary door position switch shall be Tymetal model 986

3. Fabrication

3.1. General:

3.1.1. Frames, Stiles and Rails shall be tubular in cross-section.

3.1.2. Tubular members shall be a minimum of 3/16" galvanized steel.

3.1.3. Tubular members shall be mitered and welded at the corners.

3.1.4. Steel members shall be straight, true and free from dents, buckle, twist or rough edges.

3.1.5. All joints shall be tight metal-to-metal welded finish.

3.1.6. All welds shall show uniform section and deep penetration.

3.1.7. Grind welds smooth and clean spatter off so that surfaces are easily cleaned.

4. Controls

4.1. Gate Indication: (Optional)

4.1.1. A green indication light illuminates when the gate is completely closed and locked. A red indication light illuminates under all other conditions.

5. Finish

5.1. All exposed system parts shall be zinc galvanized.

6. Inspection

6.1. Examine final grades and installation conditions. Do not begin work until all unsatisfactory conditions are corrected.

7. Installation

7.1. Install equipment of this section in strict accordance with the company's printed instructions unless otherwise shown on the contract drawings.

8. Preliminary System Test

8.1. Preparation:

8.1.1. Adjust the complete system and then operate it long enough to assure that it is performing properly.

8.2. Preliminary Test:

8.2.1. Operate system long enough to determine whether the system is in suitable condition to conduct the acceptance test.

9. System Acceptance Test

9.1. Preparation:

9.1.1. Notify the directors representative at least three working days prior to the test so arrangements can be made to have a Facility Representative witness the test.

Note: The Tymetal Corporation reserves the right to modify and/or make changes as deemed necessary without previous notice.