Part 1 General

1.1 **REFERENCES**

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM A53/A53M-02, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-1.181-99, Ready-Mixed Organic Zinc-Rich Coating.
- .3 Canadian Standards Association (CSA International).
 - .1 CAN/CSA-A23.1-00/A23.2-F00, Concrete Materials and Methods of Concrete Construction/Methods of Test for Concrete.

1.2 SUBMITTALS

- .1 Product Data:Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 Submittal Procedures.
- .2 Manufacturer's Instructions: Submit manufacturer's installation instructions.

Part 2 Products

2.1 MATERIALS

- .1 Wire fence:
 - .1 Galvanized steel.
 - .2 Square mesh 2 mm thick, galvanized metal, 50 mm spacing..
 - .2 Gates:
 - .1 Frame: to ASTM A53, galvanized steel pipe, standard weight, 25 mm outside diameter.
 - .2 Size: as indicated.
 - .3 Joints: electrically welded.
 - .3 Steel posts:
 - .1 Corner, end, gate and intermediate posts, projection arm with clips, corner and gate post braces, gate posts as indicated.
 - .2 Galvanizing: zinc coating, minimum 92 g/m² of surface area.
 - .3 Concrete mixes and materials: to Cast-in-Place Concrete, CAN/CSA-A23.1.
 - .1 Nominal coarse aggregate size: 20-5.
 - .2 Compressive strength: 20 MPa minimum at 28 days.
 - .4 Organic zinc-rich coating: to CAN/CGSB-1.181.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 GRADING

.1 Level ground along fence line in order that bottom wire of fence between posts can be maintained at not more than 150 mm above ground.

3.3 ERECTION OF FENCE

- .1 Erect fence along lines as indicated.
- .2 Installation of posts:
 - .1 Space intermediate posts at 3 m.
 - .2 Space corner, end and gate posts 3 m from adjacent post.
 - .3 Locate and erect gate posts as indicated.
 - .4 Install posts true to line and plumb with 1.5 m of post projecting above ground.
- .3 Fencing with steel posts:
 - .1 Install steel posts to depths as indicated.
 - .2 Set following items in concrete:
 - .1 End, corner and gate posts.
 - .2 Intermediate posts adjacent to end, corner and gate posts.
 - .3 Intermediate posts along fence line.
 - .4 Ends of braces for corner, end and gate posts.
 - .3 Brace corner, end and gate posts as indicated.
 - .4 Clamp a studded steel projection arm to each post as indicated.
 - .5 Erect steel mesh as indicated.
 - .6 Stretch mesh to have uniform tension..

3.4 INSTALLATION OF GATES

- .1 Install gate in location as indicated.
- .2 Install gates to prevent over-stress on gate posts when gates are open. Install on level ground with ground clearance of 100 mm.
- .3 Locate gate latch and support.. Gate latch to be lockable by padlock..

3.5 CLEANING

.1 Perform cleaning as soon as possible after installation.

- .2 Clean and trim areas disturbed by operations. Dispose of surplus material and replace damaged turf with sod as directed by Contract Administrator.
- .3 Touch Up: Clean damaged galvanized surfaces with wire brush removing loose and cracked coatings. Apply two coats of organic zinc-rich coating.
- .4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION