PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Steel welded wire fences.
2. Steel welded wire gates.
3. Concrete post foundations.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 03 3000 - Cast-In-Place Concrete.
3. Section 31 2300 - Excavation and Fill.

1.2 REFERENCES
A. ASTM International (ASTM):
B. Miami-Dade County
1. High Velocity Hurricane Zone Certification [LEED MR Credit 4.1/4.2]

1.3 SUBMITTALS
A. Submittals for Review:
1. Shop Drawings: Indicate fence locations, post spacing, system components, and accessories.
2. Product Data: Manufacturer's descriptive data.
3. Samples:
   a. [12 x 12] inch fence panel samples.
   b. [12] inch long post samples.
   c. Cap and bracket samples.

B. Sustainable Design Submittals:
1. Recycled Content: Certify recycled content of steel; indicate recycled content percent and whether pre-consumer or post-consumer [LEED MR Credit 4.1/4.2].
2. Regional Materials: Certify materials extracted, processed, and manufactured within 500 mile radius of Project site [LEED MR Credit 5].

1.4 QUALITY ASSURANCE
B. Mockup:
2. Show: Fence posts, panels, and accessories.
3. Locate [where directed.] [____]
4. Approved mockup may [not] remain as part of the Work.

1.5 WARRANTIES
A. Furnish manufacturer's warranty providing coverage against corrosion of galvanized steel coatings and blistering or loosening of powder coatings.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. Contract Documents are based on products by Deacero S.A. DE C.V.
B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 COMPONENTS
A. Fence Panels:
1. Resistance welded steel wire mesh, ASTM A185/A185M, 6 gauge Class 1 galvanized steel wire per ASTM A641/A641M, 2 x 6 inch mesh, stiffened with horizontal V-shaped braces.
3. Wire breaking load: Minimum 80,000 PSI.
4. Weld shear strength: Minimum 1,050 pounds.

B. Posts:
1. Galvanized steel tube, ASTM A513/A787, G60 coating class, 2¼ x 2¼ inches, 16 gauge [except 12 gauge for posts supporting extension arms] or 3 x 3 inches, 11 gauge.
2. Length: To suit panel height and post mounting method.
4. Post bases: Steel plate bolted to bottom of posts, with four plated steel anchor bolts per base.
5. Extension arms: Same material and size as posts, welded to post tops at 45 degree angle, for attachment of [barbed wire using clips and machine bolts.] [Fence panels using post brackets.]

C. Post Brackets:
1. Galvanized steel and powder coated, sized to post dimensions, with a 1¼” galvanized nut and bolt.

D. Gates:
1. Custom built by design. Includes any specified hardware.

2.3 ACCESSORIES
A. Concrete: As required by local building codes.

2.4 FINISHES
A. Fence Panels and Posts:
1. Polyester powder coated to approximately 4 mils thickness, free of both Triglycidyl Isocyanurate (TGIC) and Volatile Organic Compounds, [Black] [White] [Green] [Brown] [Gray] [Blue] [Red] [Yellow] color.
2. Salt spray resistance: No rusting or blistering tested to ASTM B117 for 1000 hours.
3. Adhesion: Tested to ASTM D3359, Method B.

PART 3 - EXECUTION

3.1 INSTALLATION
A. Install fencing in accordance with manufacturer's instructions and approved Shop Drawings.
B. Drill post holes into undisturbed or compacted soil in accordance with local building codes.
C. Set posts with bottom hole in accordance with local building codes.
D. Place concrete around posts in accordance with local building codes.
E. Pour top of footings in accordance with local building codes.

**** OR ****

3.2 INSTALLATION
A. Install fencing in accordance with manufacturer's instructions and approved Shop Drawings.
B. Locate and drill holes for post bases.
C. Secure each post with four anchor bolts.

3.3 INSTALLATION TOLERANCES
A. Maximum Variation from Plumb: $\frac{1}{4}$ inch in 10 feet.
B. Maximum Offset from True Position: 1 inch.