DECORATIVE PEDESTRIAN FENCE 9/5/23 (Effective March 1, 2024)

**1.0 Description.** This work shall consist of fabricating and installing a steel decorative pedestrian fence to provide a complete and properly functioning fence system as indicated on the plans and in this specification.

**2.0 Performance Requirements.**

**2.0.1** The fence design shall allow for thermal movement of 1/4 inch per 30 feet of fence, minimum. The fence design shall account for the differential thermal expansion characteristics of the fence and concrete to which it is mounted.

**2.0.2** Base plate shall be furnished for mounting posts to top of concrete. Base plate anchors shall be cast into the concrete.

**2.1 Materials.** Decorative fence system products shall meet or exceed the following requirements.

**2.1.1 Acceptable Manufacturer Systems.** The chosen decorative fence system shall be the same for all bridges in this project. Decorative fence system shall meet the performance requirements as stated in this special provision and shall consist of one of the approved decorative fence systems listed on the Bridge Pre-qualified Product Listing.

**2.1.2 Visual Condition.** Metal free from surface blemishes shall be provided where exposed to view in the finished unit. Exposed-to-view surfaces exhibiting pitting, seam marks, roller marks, stains, discolorations, or other imperfections on finished units are not acceptable.

**2.1.3 Surface Coatings.** The steel shall be hot-dip galvanized to meet the requirements of ASTM A 653 with a minimum zinc coating weight of 0.90 oz/sf, coating designation G-90. Surface preparation of galvanized surface for the aliphatic polyurethane finish coat shall be in accordance with the product specifications for the finish coat. The exterior of all fence components shall be coated with an aliphatic polyurethane finish coat to provide a total dry film thickness of 4 mils minimum and 6 mils maximum. The color of the finish coat shall be black (Federal Standard #17038).

**2.2 Construction Requirements.**

**2.2.1** Delivery, storage, handling and installation methods shall be per fence manufacturer’s recommendations.

**2.2.2** Fence posts shall be spaced no greater than the maximum post spacing shown on the plans, plus one-half inch. For installations along sloping grades, the post spacing will be measured along the grade. Separation gaps shall be provided at a minimum of every six panels.

**2.2.3**  For field assembly, zinc-rich primer shall be applied to thoroughly cover field-cut or field-drilled edges. Two coats of manufacturer supplied finish paint shall be applied to match fence color.

**2.3 Warranty.** All structural fence components shall be warranted by the manufacturer for a period of ten (10) years from the date of final acceptance by the engineer. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering, or corrosion and necessary labor required to replace or restore such parts.

**3.0 Method of Measurement.** Measurement shall be made horizontally and to nearest linear foot of fence installed.

**4.0 Basis of Payment.** Payment for the work described above and on the contract plans, including all material, equipment, labor, and any other incidental work necessary, will be considered completely covered by the contract unit price for (\_\_\_in.) Decorative Pedestrian Fence (Structures).