

**World Plaza  
Relocalización de Compactadora de Basura**

**DIVISION- 5 METALS**  
**SECTION- 05 50 00 METAL FABRICATORS**  
**PART 1- GENERAL**

**1.1 DESCRIPTION**

- a.** Work included:
1. Sliding vehicular gates.
  2. Pedestrian gates.
  3. Garbage chute access door.
  4. Loading dock platform expansion and railing.
  5. All miscellaneous iron and steel items required per the construction drawings or not specifically described in other sections of these specifications but required for a complete and operable facility.

**1.2 QUALITY ASSURANCE**

- a.** Qualifications of welders:
1. Use only certified welders and the shielded arc process for all welding performed in connection with the work of the section.
- b.** Codes and standards:
1. In addition to complying with all pertinent codes and regulations, comply with:
    - i. ASTM F 2200: Standard Specification for Automated Vehicular Gate Construction.
    - ii. "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" of Steel Construction.
    - iii. "Code for Welding in Building Construction" of the American Welding Society.
- c.** In the event of conflict between pertinent codes and regulations and the requirements of the referenced standards of these specifications, the provisions of the more stringent shall govern.

**1.3 SUBMITTALS**

- a.** Shop Drawings:
1. Before any miscellaneous metal is delivered to the job site, submit shop drawings to the Owner's representative for approval.

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2. Show all locations, markings, quantities, materials, sizes and shapes and indicate all methods of connecting, anchoring fastening, bracing, and attaching to the work of other trades.
- b.** Proof of compliance:
1. Upon completion of this portion of the work, and as a condition of its acceptance, deliver to the Owner's representative a letter signed by an official of the miscellaneous metal fabricating and installing firm or firms certifying that all miscellaneous metal was furnished and installed in complete accordance with this section of these specifications.

**1.4. PRODUCT HANDLING**

- a.** Protection: Use all means necessary to protect miscellaneous metal before, during, and after installations and to protect the installed work and materials of all other trades.
- b.** Replacements: In the event of damage, immediately make all repairs and replacement necessary to the approval of the Architect and at no additional cost to the owner.

**PART 2- PRODUCTS**

**2.1 GENERAL**

- a.** Steel tubing: All steel tubing shall be new, free from rust, and conforming with the requirements of ASTM A-501.
- b.** Steel Plate: All steel plate shall be new, free from rust, and conforming with the requirements of ASTM A-36.
- c.** Bolts and Nuts: All bolts and nuts shall be new, free from rust, and conforming with the requirements of ASTM A-325-F.
- d.** Electrodes: All welding electrodes used shall be those specifically recommended for the purpose by the American Welding Society.
- e.** Primer Paint: Shop Primer SSPC-Paint 2, one coat, two (2) mils film thickness.
- f.** Other materials: All other materials not specifically described but required for a complete and proper installation of miscellaneous metal, shall be new, free from rust, best quality of their respective kinds, and subject to the approval of the Architect.

**PART 3- EXECUTION**

**3.1 GENERAL**

- a.** Surface Conditions

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1. Inspection:
  - a. Prior to all work of this section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where fabrication and installation of the work of this section may properly commence.
  - b. Make all required measurements in the field to ensure proper and adequate fit of miscellaneous items.
  - c. Verify that miscellaneous metal be fabricated and installed in strict accordance with the original design and the approved shop drawings.
  - d. Discrepancies
    1. In the event of discrepancy, immediately notify the Owner's Representative.
  - e. Do not proceed with fabrication or installation in areas of discrepancy until all such discrepancies have been fully resolved.

**3.2 FABRICATION**

- a. Compliance: Fabricate all miscellaneous metal in strict accordance with the approved shop drawings and the referenced standards.
- b. Prefabrication: Insofar as possible, shop prefabricate all items complete and ready for installation.
- c. Welding:
  1. Unless otherwise indicated on the drawings, weld all shop connections.
  2. Make all joints and intersections of metal fitting and securely fastened.
  3. Make all work square, plumb, straight, and true.
- d. Holes:
  1. Drill or punch all holes required for the attachment of work or other trades and for bolted connections.
  2. Burned holes are not acceptable.
- e. Shop cleaning and priming:
- f. Provide surface preparation SSPC-SP 2, hand tool cleaning, for all structural steel to assure thorough and complete removal of all loose rust, loose mill scale,

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loose paint, dirt and any other foreign matter. Oil and grease shall be removed with solvents.

- g.** Request and do not proceed with shop painting until Architect's and Owner's testing agency inspection and approval of steel shapes surface preparation.
- h.** Shop paint all structural steel, except:
  - 1. Steel to be encased in concrete.
  - 2. Surfaces to be field welded.
  - 3. Contact surfaces to be high strength bolted.
  - 4. Contact Surfaces to be high strength bolted.
  - 5. Steelwork, which will be concealed by interior finish.

**3.3 ERECTION**

- a.** Coordinates: Coordinate installation schedule with the schedules of other trades to ensure orderly and timely progress of the work.
- b.** Compliance: Erect and install all miscellaneous metal in strict accordance with the drawings, the approved shop drawings, and the referenced standards, aligning straight, plumb, and level within a tolerance of one in 200.
- c.** Touching up: After the erection and installation are complete, touch-up all shop priming coats damaged during transportation and erection, using the priming paint specified for shop priming.

**END OF SECTION**