

SECTION 32 31 13
CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Contractor shall remove, protect, store, and re-install existing fence for the tennis court. Contractor shall provide all additional/new materials required to adequately re-install the tennis court fence.

1.2 RELATED REQUIREMENTS

- A. Temporary Construction Fence: Section 01 00 00, GENERAL REQUIREMENTS.

1.3 APPLICABLE PUBLICATIONS

- A. Comply with references to extent specified in this section. The latest edition of the publication shall apply.
- B. ASTM International (ASTM):
1. A121-13 - Metallic Coated Carbon Steel Barbed Wire.
 2. A392-11a - Zinc-Coated Steel Chain-Link Fence Fabric.
 3. A491-11 - Aluminum Coated Steel Chain Link Fence Fabric.
 4. A817-12 - Metal-Coated Steel Wire for Chain-Link Fence Fabric and Marcellled Tension Wire.
 5. B429 - Aluminum-Alloy Extruded Structural Pipe and Tube.
 6. F567-14a - Installation of Chain-Link Fence.
 7. F626-14 - Fence Fittings.
 8. F668-11 - Polyvinyl Chloride (PVC) and Other Organic Polymer-Coated Steel Chain Link Fence Fabric.
 9. F900-11 - Industrial and Commercial Swing Gates.
 10. F1184-16 - Industrial and Commercial Horizontal Slide Gates.
 11. F1664-08(2013) - Polyvinyl Chloride (PVC) and Other Conforming Organic Polymer Coated Steel Tension Wire used with Chain Link Fence.
 12. F1665-08(2013) - Polyvinyl Chloride (PVC) and Other Conforming Organic Polymer Coated Steel Barbed Wire used with Chain Link Fence.
 13. F2200-14 - Automated Vehicular Gate Construction.
 14. F1043-16 - Strength and Protective Coatings on Steel Industrial Fence Framework.
 15. F1083-16 - Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures.
- C. Chain Link Fence Manufacturing Institute (CLFMI):
1. Product Manual.

- D. Federal Specifications (Fed. Spec.):
 - 1. FF-P-110J - Padlock, Changeable Combination.
- E. Master Painters Institute (MPI):
 - 1. No. 18 - Primer, Zinc Rich, Organic.

1.4 SUBMITTALS

- A. Certificates: Contractor shall certify that fence was re-installed to match existing conditions.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Regularly manufactures specified products.
 - 2. Manufactured specified products with satisfactory service on five similar installations for minimum five years.
- B. Installer Qualifications:
 - 1. Regularly installs specified products.
 - 2. Installed specified products with satisfactory service on five similar installations for minimum five years.
 - a. Project Experience List: Provide contact names and addresses for completed projects.

1.6 DELIVERY

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, production run number, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

1.7 STORAGE AND HANDLING

- A. Protect products from damage during handling and construction operations.

1.8 WARRANTY

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

PART 2 - PRODUCTS

2.1 PRODUCTS - GENERAL

- A. Provide any products required for re-install to match existing.

2.2 CONCRETE

- A. Concrete: 4,000 psi as specified in Section 32 05 23.

2.3 FINISHES

- A. Match existing finishes.

2.4 ACCESSORIES

- A. Barrier Coating: ASTM D1187/D1187M.
- B. Welding Materials: AWS D1.1/D1.1M, type to suit application.
- C. Galvanizing Repair Paint: MPI No. 18.
- D. Touch-Up Paint: Match shop finish.

PART 3 - EXECUTION**3.1 PREPARATION**

- A. Examine and verify substrate suitability for product installation.
- B. Protect existing construction and completed work from damage.
- C. Examine existing fencing system to determine materials and construction utilized.
- D. Remove existing fence to permit work and re-installation.
 - 1. Retain and protect existing fence for reuse.
 - 2. Dispose of other removed materials.
- E. Apply barrier coating to steel and aluminum surfaces in contact with dissimilar metals and cementitious materials to minimum 0.7 mm (30 mils) dry film thickness.

3.2 RE-INSTALLATION

- A. Layout fence and locate position of post.
- B. Re-Installation:
 - 1. General: Comply with ASTM F567. Re-install to match existing conditions for fence removed unless otherwise noted.
 - 2. Framework:
 - a. Posts: Set plumb in concrete footings with 48 inch minimum depth.
 - 1) Minimum Footing Diameter: Four times largest cross section of post, up to 100 mm (4 inches) O.D. and three times largest cross section of post greater than 100 mm (4 inches). O.D.
 - 2) Space line posts not exceeding 3 m (10 ft.) on center.
- C. Touch up damaged factory finishes.
 - 1. Repair galvanized surfaces with galvanized repair paint.
 - 2. Repair painted surfaces with touch up paint.

3.3 CLEANING

- A. Clean exposed fence surfaces. Remove contaminants and stains.

3.4 PROTECTION

- A. Protect fence from traffic and construction operations.
- B. Repair damage.

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