

SECTION 02833

WOOD AND HDPE PLASTIC LUMBER FENCING AND POSTS

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Split Rail Fence.
- B. HDPE Plastic Lumber Fencing.
- C. Guard Posts.

1.2 RELATED SECTIONS

- A. Section 01300 - Submittals.
- B. Section 03001 - Concrete: Concrete anchorage for Wood and HDPE Plastic Lumber posts.

1.3 GENERAL

- A. Work includes: Installing Wood and HDPE Plastic Lumber fence as indicated on plans, frame posts and foundations.

1.4 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Split Rail Fencing:
 - 1. Basis of Measurement: At the unit price bid per linear foot for wood fence to the fence height specified, based on the specified post spacing.
 - 2. Basis of Payment: Includes all the labor, equipment and materials (posts, rails, concrete, accessories, and attachments) to install the split rail fencing.
- B. Timber Guard Post:
 - 1. Basis of Measurement: At the unit price for each as stated in the proposal.
 - 2. Basis of Payment: Includes all the labor, materials, and equipment to install wood post including the concrete and paint.
- C. HDPE Plastic Lumber Fencing:
 - 1. Basis of Measurement: Included in other work items of this project.
 - 2. Basis of Payment: Includes all the labor, materials, and equipment to install the HDPE plastic fence and gate as indicated on the plans.

1.5 SYSTEM DESCRIPTION

- A. Split Rail Wood Fence Height: Minimum 3 feet 6 inches.
- B. HDPE Plastic Lumber Fence Height: Minimum 6 feet.
- C. Wood Fence Posts: At intervals not exceeding 8 feet.
- D. HDPE Plastic Lumber Fence Posts: At intervals not exceeding 4 feet.

1.6 SUBMITTALS

- A. Submit under provisions of Section 01300 - Submittals.
- B. Submit shop drawings and product data for all items to be installed and/or constructed within this section.
- C. Submit manufacturer's instructions for all product data.
- D. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, and schedule of components.
- E. Product Data: Provide data on posts, and rails.

1.7 PROJECT RECORD DOCUMENTS

- A. Submit under provisions of Section 01700 – Contract Closeout.

1.8 QUALITY ASSURANCE

- A. Perform Work in accordance with manufacturer’s instructions.

1.9 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with minimum three years documented experience.

1.10 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop plans.

2. PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Split Rail Wood Fence Posts: Furnish out of local stock.
- B. HDPE Plastic Lumber Fence Posts: Manufacture U.S. Plastic Lumber tri-MAX Structural Lumber.

2.2 MATERIALS

- A. Concrete: Class A concrete as specified in Section 03001 - Concrete and 03300 – Concrete Framework.
- B. Fence Posts: 6 feet (longer for installation in soft ground, as determined by Engineer).
- C. Plastic Lumber Fencing shall be Durawood HDPE Plastic Lumber in Cedar color U.S. manufactured by U.S. Plastic Lumber or Engineer approved equivalent.

3. PART 3 EXECUTION

3.1 INSTALLATION

- A. Install fencing in accordance with manufacturer’s instructions.

- B. Set posts plumb, in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water runoff.
- C. Post Footing Depth Below Finish Grade: 3 feet 6 inches.
- D. Attach proposed fence to posts by utilizing a fence post driven adjacent to gatepost.
- E. Provide concrete center drop to footing depth and drop rod retainers at center of double gate openings.
- F. Install fence as indicated on Drawings and as recommended by manufacturer.
- G. Install fence posts plumb and 8 feet apart for the split rail fence.
- H. Install fence posts plumb and 4 feet apart for the HDPE plastic lumber fencing.
- I. Install 6 foot fence posts for normal runs. Utilize longer posts for a sturdy installation through low-lying areas.

3.2 ERECTION TOLERANCES

- A. Maximum Variation from Plumb: 1/4 inch.

END OF SECTION