

**SECTION 32 31 15****WOOD FENCES & GATES**  
Last Updated: November 18, 2015**Part 1 GENERAL****1.1 SECTION INCLUDES**

- A. Requirements regarding wood fencing and gates on DISTRICT lands or interest in lands.

**1.2 SUBMITTALS**

- A. Drawings: Indicate plan layout, grid, size and spacing of components, accessories, fittings, anchorage, and post section.
- B. Data: Submit manufacturer's installation instructions and procedures, including details of fence and gate installation.

**Part 2 PRODUCTS****2.1 GENERAL**

- A. All wood materials shall be treated wood, or wood of a natural resistance to decay. Materials shall be free from loose knots, cracks, and other imperfections.
- B. Cast-in-place Concrete: Class 3000 minimum, Section 03 30 04.

**2.2 WOOD BOARDS OR SLATS**

- A. Wood boards or slats shall be of cedar, redwood, combed spruce or similar wood acceptable to DISTRICT.
- B. Wood boards or slats shall be between 3/8 inches and 5/8 inches thick and be no greater than 6 inches wide.

**2.3 POSTS**

- A. Fence and Man Gate posts shall be 4-inch by 4-inch.
- B. Truck Gate posts shall be at minimum dual 6-inch by 6-inch or as recommended by manufacturer.
- C. Posts shall be pressure treated redwood, douglas fir-larch, cedar or similar wood acceptable to DISTRICT.
- D. Buried post ends should be treated with an approved wood preservative product.

**2.4 GATES**

- A. Provide additional horizontal, vertical, and diagonal members to ensure proper gate operation and for attachment of wood, hardware and accessories. Consult manufacturer as necessary.
- B. Accessibility: Gate stops, latches and locks shall be accessible from either side of gate.
- C. Types: Man Gates and Truck Gates

1. Man Gates
    - a. Openings shall be a minimum of 3 feet wide.
  2. Truck Gates
    - a. Openings shall be a minimum of 12 feet wide.
- D. Gate designs shall be approved by DISTRICT prior to installation.

## 2.5 GATE HARDWARE

- A. Gate hardware including, but not limited to, latches, hinges, stops and bolts shall be stainless steel, powder coated black, or galvanized.
- B. Hinges and Pins shall be heavy duty and sized as per manufacturer's recommendations.
- C. For truck gates (double-leaf), a drop rod or stop shall be installed on one leaf, include at least one guide and shall extend into concrete base or similarly solid base.
- D. Dual access (accessible and lockable from either side) latch and lock systems are required on all gates.
  1. The following dual access latch and lock systems are allowed and must be approved in writing by the District prior to installation:
    - a. Lock Thru™ Latch (website: <http://www.hooverfence.com/woodfence/lockthru.htm>);
    - b. Sure Latch (website: <http://surelatch.com/gate-latches/7-lockable-two-way-latch-and-pin.html>);
    - c. or Equal.

## Part 3 EXECUTION

### 3.1 PREPARATION.

- A. Follow all applicable blue stakes procedures.
- B. Unless otherwise directed, DISTRICT or DISTRICT's representative shall be on-site during entire fence installation.

### 3.2 LAYOUT OF WORK

- A. Under no circumstance shall a fence or gate post be located above the Salt Lake Aqueduct or Point of the Mountain Aqueduct.
- B. Gate location shall be approved by District prior to installation.

### 3.3 INSTALLATION OF POSTS

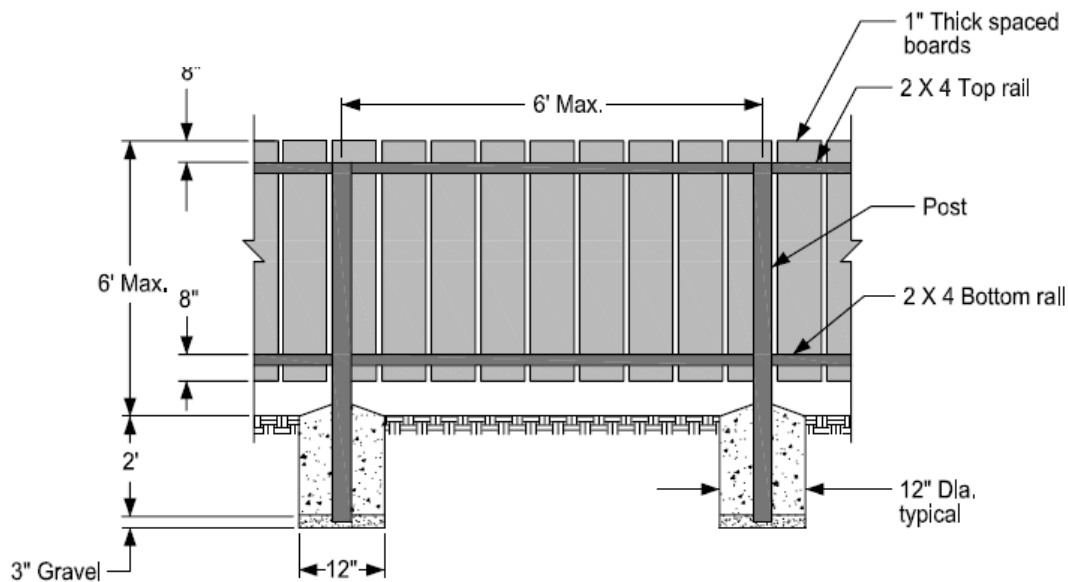
- A. Posts shall be set true to line and grade.
- B. Set posts in 12-inch diameter concrete footings extending at least 24-inches into undisturbed natural ground or properly compacted fill.

### 3.4 INSTALLATION OF FENCE

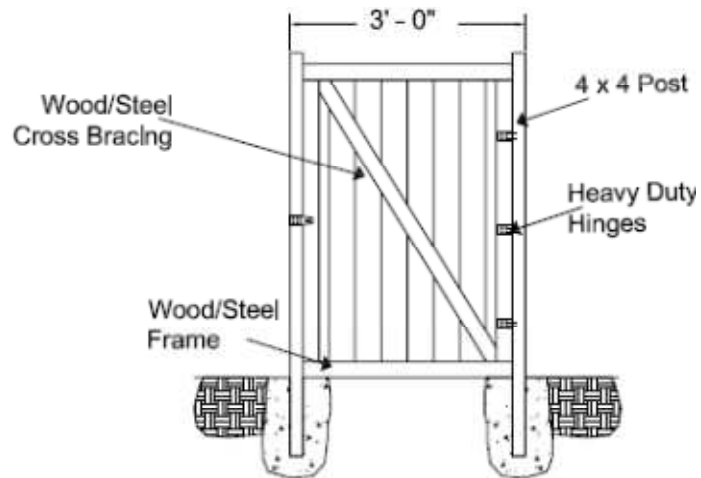
- A. Typical fence installation can be found in Figure 1 at the end of this specification section.

### 3.5 INSTALLATION OF GATES

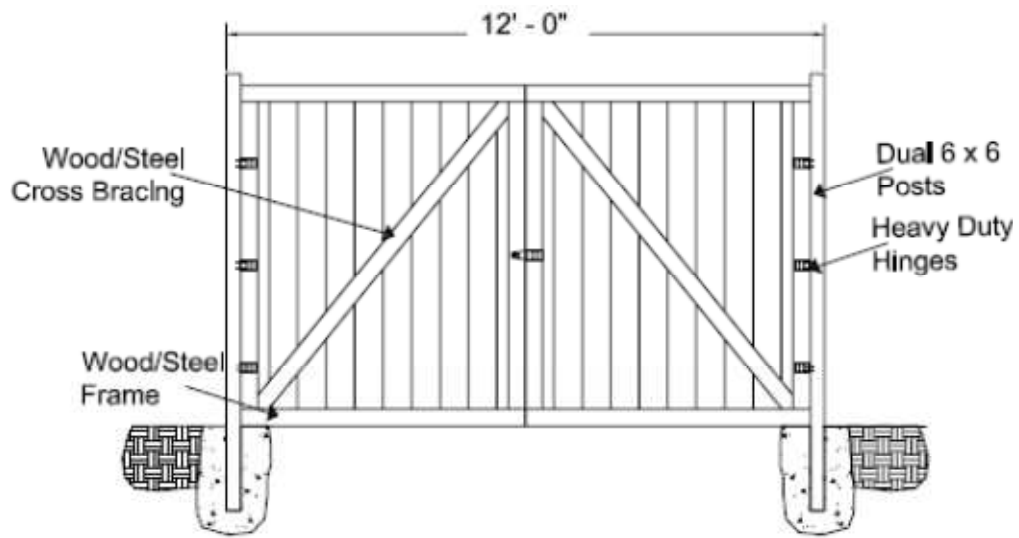
- A. Install gates plumb, level, and secure for full opening without interference. Install ground-set items in concrete for anchorage as recommended by the fence manufacturer. Adjust hardware for smooth operation.
- B. Man Gates:
1. Shall be installed on all enclosed or fenced-in right of way (Fee or Easement) areas at Applicant's expense.
  2. Shall be configured to allow District staff to enter or exit the enclosed area.
  3. Once gate is installed coordinate with District on lock installation.
  4. Typical gate installation can be found in Figure 2 at the end of this specification section..
- C. Truck Gates:
1. Shall be installed at the request of the District and shall be at no additional cost to the District
  2. Shall open/close in direction as directed by District.
  3. Shall be configured to allow District vehicles to enter the enclosed area to perform inspections, work, etc... and exit to the opposite side of the enclosed area, if necessary.
  4. Once gate is installed coordinate with District on lock installation
  5. Typical gate installation can be found in Figure 3 at the end of this specification section.



**FIGURE 1 Wood Fence Detail**



**FIGURE 2 - Wood Man Gate Detail**



**FIGURE 3 Wood Truck Gate Detail**