Special Specification 5012
Split Rail Fence

1. DESCRIPTION

Furnish, install, remove, repair, or replace split rail fence.

2. MATERIALS

Furnish materials in accordance with the following:

2.1. Posts:

- Provide posts of 18-in. girth (approx. 25 sq. in.). Obtain Department approval for any deviations.
- Provide 2-rail posts 66-in. in height. Obtain Department approval for any deviations.
- Bury posts 30-in. into the ground.

2.2. Rails:

- Unless otherwise required by City ordinances, provide fences 3 ft. in height.
- Use a 2-rail split rail system.

2.3. Paint:

- Paint new split rail fence above the ground line with a minimum of two coats of outdoor rated paint, white in color. Obtain approval from the Department and the property owner for the white paint before applying it.

For wood materials, furnish treated wood or wood of a natural resistance to decay. Provide materials that are free from loose knots, cracks, and other imperfections.

3. CONSTRUCTION

Erect the split rail fence to line up with and match the height of the existing rail at the tie-in. Offset the new fence from the driveway to reflect the offset of the existing fence from the driveway. The overall height of the fence when erected, is the height above the finished driveway grade.

Repair or replace fence damaged by construction beyond the limits of the new fence installation shown on the plans. Removed split rail fence components that cannot be salvaged and used in the installation of the new fence become the property of the Contractor.

Backfill postholes with suitable material.
FIGURE 1 - 2-Rail Split Rail Fence Detail

3.1. **Erection of Posts.** Install posts as shown in Figure 1. Plumb and permanently position posts with anchorages firmly set before installing rails.

3.1.1. **Postholes.** Drill holes for concrete footings for posts to provide footings that are 24 in. wide by 36 in. high (See Figure 1).

Where solid rock is encountered before reaching required depth, penetrate the solid rock by at least 12 in. (18 in. for end posts) or to the depth noted in Figure 1. Drill holes in solid rock with a diameter at least 1 in. greater than the outside diameter of the post.

After the posts are set and plumbed, fill the hole in the solid rock with grout consisting of 1 part hydraulic cement and 3 parts clean, well-graded sand. Other grouting materials may be used if approved. Thoroughly work the grout into the hole, leaving no voids. Construct concrete footings from the solid rock to the top of the ground.

3.1.2. **Concrete Footings.** Center posts in their footings. Place concrete and compact by tamping or other approved methods. Machine mix batches of concrete over 1/2 cu. yd. Hand mixing concrete is allowed on batches under 1/2 cu. yd.

Use forms for footings where the ground cannot be satisfactorily excavated to neat lines. Crown the concrete or grout (for solid rock) to carry water from the post. Keep the forms in place for at least 24 hours. Backfill the footing with moistened material as soon as each form is removed, and thoroughly tamp. Cover concrete with at least 4 in. of loose moist material, free of clods and gravel, immediately after placing concrete. No other curing is required.

Spread excess excavated and loose material used for curing neatly and uniformly. Remove excess concrete and other construction debris from the site.

4. **MEASUREMENT**

Split rail fence will be measured by the foot of fence installed, repaired, replaced, or removed, measured along the bottom of the lower rail from centerline of post to centerline of post.

5. **PAYMENT**

The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Split Rail Fence (Install)” or “Split Rail Fence
(Remove)". Clearing and grading for fencing is subsidiary to this item.

5.1. **Split Rail Fence (Install).** This price is full compensation for furnishing materials; repairing or replacing fencing; cleaning, grading, and backfilling; removing and disposing of surplus or damaged material; and equipment, labor, tools, and incidentals.

5.2. **Split Rail Fence (Remove).** This price is full compensation for removing fencing, except gates; cleaning, grading, and backfilling; removing and disposing of surplus material; and equipment, labor, tools, and incidentals.