

Special Specification 7012

Curb Inlet Sediment Control Device



1. DESCRIPTION

Install, maintain, and remove sediment control devices placed at the openings of curb inlets.

2. MATERIALS

Furnish Curb Inlet Guard™ manufactured by ERTEC Environmental Systems, Alameda, CA., or GeoCurve Inlet Filter manufactured by Geosolutions, Austin, TX., or approved equal. If using approved equal, provide product sample and manufacturer's installation literature to Engineer for approval. Retrofitted sediment control fence, hail screen, or sand bags are not acceptable.

- 2.1. **Size.** Furnish curb inlet sediment control device designed, by the manufacturer, to fit the curb inlet opening. The device and its anchors may not extend more than 10 in. horizontally from face of curb towards travel lanes and must extend vertically to reach the top of the curb inlet throat.
- 2.2. **Structure.** Furnish curb inlet sediment control device made from UV stable materials that are resistant to performance deterioration from sunlight for a minimum of 3 yr. The device must have intimate contact with the bottom of the inlet throat to prevent storm water from under-flowing.
- 2.3. **Sediment Filtering Capacity.** Furnish curb inlet sediment control device equipped with filter fabric meeting the following physical requirements and capable of removing soil particles from storm water at flow depth of 2 in. or greater in accordance with Table 1.

Table 1
Filter Fabric Physical Requirements

Apparent Opening Size (AOS)	400 to 600 microns
Percent Open Area (POA)	>10%
Flow Rate	130 gallon per SF per minute with clean water or greater.

- 2.4. **High-Flow Bypass.** Furnish curb inlet sediment control device with a high-flow bypass flow mechanism capable of handling high storm water flows to prevent flooding of the travel lanes.

3. CONSTRUCTION

- 3.1. **Installation.** Install curb inlet sediment control devices in accordance to manufacturer's installation instructions at locations shown on the plans or as directed.
- 3.2. **Maintenance.** Perform maintenance as required by removing accumulated sediment and debris in accordance to manufacturer's instructions or as directed. Inspect following rainfall events and at least daily during prolonged rainfall events.
- 3.3. **Removal.** Remove as directed.

4. MEASUREMENT

This Item will be measured by the foot of curb inlet to be protected.

5. PAVEMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit bid price for "Curb Inlet Sediment Control Device (Install)." After removal, all sections of the product that are deemed reusable by the Engineer may be reinstalled at new locations and payment will be made at the unit bid price for "Curb Inlet Sediment Control Device (Re-use)." These prices are full compensation for materials, installation, re-installation, maintenance, removal and disposal, equipment, labor, tools, and incidentals. All repair and replacement of devices damaged by Contractor operations will not be paid for directly but are subsidiary to this Item.