

Section 01577

INLET PROTECTION BARRIERS

PART 1 GENERAL

1.01 SUMMARY

This Section includes the installation of sediment control inlet protection barriers used during construction and prior to final development of site.

1.02 MEASUREMENT AND PAYMENT

A. UNIT PRICES

1. Measure and pay for inlet protection barrier on a per each basis.
2. Measure and pay for inspection, maintenance and repair of the systems will be paid in accordance with Section 01410 – “TPDES Requirements”.

1.03 REFERENCES

- A. ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel.
- B. ASTM D 4355/D 4355M – Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus.
- C. ASTM D 4632/D 4632M Rev A - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.
- D. ASTM D 4833– Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.

1.04 SUBMITTALS

Manufacturer’s catalog sheets and other product data on filter fabric.

1.05 RELATED REQUIREMENTS

Section 01410 – “TPDES Requirements”

1.06 – 1.13 NOT USED

PART 2 PRODUCTS

2.01 MANUFACTURER(S) (NOT USED)

2.02 MATERIALS AND/OR EQUIPMENT

A. Gravel Bag

1. Provide woven geotextile filter fabric material made of polypropylene, polyethylene, or polyamide material.
2. Minimum unit weight of 4 ounces per square yard.
3. Minimum grab strength of 100 psi in any principal direction (ASTM D4632)
4. Mullen burst strength exceeding 300 psi (ASTM D4833).
5. Ultraviolet stability exceeding 70 percent after 500 hours of exposures (ASTM 4355).
6. Length: 18 to 24 inches. Width: 12 to 18 inches. Thickness: 6 to 8 inches. Weight: 40 to 50 pounds not to exceed 75 pounds.

2.03 – 2.04 NOT USED

PART 3 EXECUTION

3.01 – 3.02 NOT USED

3.03 ERECTION/INSTALLATION APPLICATION AND/OR CONSTRUCTION

A. Preparation and Installation

1. Provide sediment control systems at locations shown on Plans.
2. No clearing, grubbing or rough cutting permitted until sediment control systems are in place, other than site work specifically directed by Project Manager to allow soil testing and surveying.
3. Regularly inspect, maintain and repair or replace damaged components of sediment control systems. Unless otherwise directed, maintain sediment control systems until project area stabilization is accepted by the Owner. Remove sediment control systems promptly when directed by Project Manager. Discard removed materials off site in accordance with Section 01576 – Waste Material Disposal.
4. Remove and dispose sediment deposits at designated spoil site for Project. If a project spoil site is not designated on Plans, dispose of sediment off site in accordance with Section 01576 – Waste Material Disposal.

5. Prohibit equipment and vehicles from maneuvering on areas outside of dedicated rights-of-way and easements for construction. Immediately repair damage caused by construction traffic to sediment control.
6. Conduct all construction operations under this Contract in conformance with control practices described in Section 01410 – TPDES Requirements.

B. General Construction Methods

1. Provide sedimentation control systems in accordance with Plan details.
2. Inspect sedimentation control systems after each rainfall, daily during periods of prolonged rainfall, and at minimum once each week. Repair or replace damaged components immediately.
3. Remove sediment deposits when sediment has accumulated to one-third height of barrier.

3.04 – 3.10 NOT USED

END OF SECTION