SECTION 256 RISER PIPE ASSEMBLY FOR SEDIMENT TRAP

256.01 Description. This work consists of constructing, maintaining, and ultimately removing sediment trap outlets using outfall pipes, riser pipes, and trash hoods as shown on Standard Construction Detail, Riser Pipe Assembly For Sediment Trap, at the locations shown on the Plans, and as directed by the Engineer.

MATERIALS.

256.02 Wire Mesh. Wire mesh shall be steel or galvanized welded wire reinforcement with openings **3** by **3**" (6 by 6 mm) and wire diameter of 23 gage (655 Fm).

256.03 Metal Base Plate. Metal base plate shall have a minimum thickness of **3**" (6 mm). The length and width of the plate shall be equal to the diameter of the riser pipe plus 24" (600 mm).

256.04 Trash Hood. Trash hood shall conform to the trash hood detail as shown on Standard Construction Detail, Riser Pipe Assembly for Sediment Trap Outlet.

256.05 Pipe. Pipe shall be constructed of corrugated metal for both the perforated riser pipe and the non-perforated outfall pipe and shall conform to the requirements of Section 614.

256.06 Riprap. Riprap shall be R-4 conforming to the requirements of Section 712.

256.07 Stone. Stone shall be Delaware No. 57 conforming to the requirements of Section 813.

256.08 Geotextile. Geotextile shall conform to the requirements of Section 827.

CONSTRUCTION METHODS.

256.09 Construction of the Riser Pipe Assembly. The Contractor shall install the riser pipe assembly for sediment trap in reasonably close conformity with the lines and grades shown on the Plans. The subgrade shall be smooth and firm. The Contractor shall remove any protruding objects and fill any voids in the subgrade that may affect proper placement of the assembly. The outfall pipe shall be bedded according to Section 614.

A pipe stub shall be welded to the riser pipe to make up the riser pipe assembly. The riser pipe assembly shall be welded to the base plate. All welds shall be continuous to form watertight connections and shall be performed according to the requirements of Section 605. The outfall pipe shall be attached to the riser pipe assembly pipe stub using a banded, gasketed connection which shall be made watertight. The riser pipe shall be wrapped first with the wire mesh and then with the geotextile. The geotextile shall extend a minimum of 6" (150 mm) above the highest perforation and 6" (150 mm) below the lowest perforation. Where the ends of the geotextile come together, the ends shall be overlapped and folded. The wire mesh and the geotextile shall be securely fastened to the riser pipe at the top, center, and bottom of the cloth by bands secured around the riser pipe. The top of the riser pipe shall not be covered with geotextile.

As shown on Standard Construction Detail, Riser Pipe Assembly for Sediment Trap, the Contractor shall place stone around the riser pipe assembly and a 10N (3 m) long section of riprap at the end of the outfall pipe. The width of the riprap section shall be a minimum of 1.5 times the diameter of the outfall pipe or 240 (600 mm), whichever is greater. The riprap shall be placed to a minimum depth of 14" (360 mm).

256.10 Maintenance of Riser Pipe Assembly. Throughout the Project construction period, the Contractor shall maintain the assembly by replacing any clogged geotextile and cleaning any clogged pipe and stone.

256.11 Removal of Riser Pipe Assembly. At the end of the Project construction period or when directed by the Engineer, the Contractor shall remove the riser pipe assembly and all materials incidental to the construction of the riser pipe assembly. All areas affected by the construction of the riser pipe assembly shall be restored to the original or plan contours and stabilized with seed and mulch.

256.12 Method of Measurement. The quantity of riser pipe assembly for sediment trap will be measured as the actual number of each placed and accepted.

256.13 Basis of Payment. The quantity of riser pipe assembly for sediment trap will be paid for at the Contract unit price per each. Price and payment will constitute full compensation for furnishing and placing all materials; for excavating and backfilling around the riser pipe assembly; for welding; for maintaining the riser pipe assembly, including replacing clogged geotextile; for cleaning clogged pipe and stone; for removing the riser pipe assembly; for restoring the site; for seeding and mulching; and for all labor, equipment, tools, and incidentals required to complete the work.

The quantity of clearing and grubbing required for the riser pipe assembly for sediment trap construction will be paid for according to Section 201.

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