Special caution must be exercised when installing inlet protection on publicly traveled streets or in developed areas. Ensure that inlet protection is properly designed, installed and maintained to avoid flooding of the roadway or adjacent properlies and structures.

Filter fabric protection shall be designed and maintained in a manner similar to silf fence. Where applicable, filter fabric, posts, and wire backing shall meet the material requirements specified in BMP Fact Sheet S-1. Silf Fence.

Filter gravel shall be 5/4 inch (Block and Gravel Protection) or 1-1/2 to 2 inch (Excavated impoundment Protection) washed stone containing no fines. Angular shaped stone is preferable to rounded shapes.

Concrete blocks shall make the season of inlet protection. If overflow is not provided for at the inlet, excess flows shall be routed through established swales, streets, or other watercourses to minimize adamage due to flooding.

Filter Barrier Protection

Silf Fence shall consist of mylon geotextile supported by wire mesh, W1.4 x W1.4, and galvanized steel posts set a minimum of 1 foot depth and spaced not more than 6 feet on center. A 6 inch wide french is to be cut 6 inches deep at the toe of the tence to allow the fabric to be laid below the surface and backfilled with compated earth or gravel. This entenchment prevents any hypass of runoff under the fence.

Block and Gravel Protection (Curb and Drop Inlets)

Concrete blocks are to be placed on their sides in a single row around the perimeter of the links, with ends shall then be placed oner the outside face of the blocks covering the holes. Filter stone shall then be placed against the wire mesh to the top of the blocks with the base of the stone being a minimum of 18 inches from the blocks of the stone being a minimum of 18 inches from the blocks. The stone shall have a minimum of 18 inches from the blocks of the stone being a minimum of 18 inches from the blocks. The stone shall have a minimum of 18 inches from the block shall have a minimum depth of 2 feet as s often as required by the TPDES Construction General Permit, Appendix A). When silt fence is used and the fabric becomes clogged, it should be cleaned or, if necessary, replaced. Also, sediment should be removed when it reaches approximately one—half the height of the inlet protection device. If a sump used, sediment should be removed when the volume of the basin is reduced by 50%. DESCRIPTION Inlet protection consists of a variety of methods of intercepting sediment at low point inlets through the use of stone, filter fabric, inlet inserts, and other materials. This is normally locat at the inlet, providing either detention or filtration to reduce sediment and floatable materials in storm water. SPECIFICATIONS

Specifications for construction of this item may be found in the Standard Specifications for Public Works Construction — North Central Texas Council of Governments, Section 201.5 Inlet Protection. For systems using filter stone, when the filter stone becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since cleaning of stone at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill material and put new stone around the inlet. Inlet protection is only viable at low point inlets. Inlets that are on a slope connot be effectively protected because storm water will bypass the inlet and continue downstream, causing an overload condition at inlets downstream. Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain system. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. The impoundment shall be sized such that the volume of excavation shall be equal to 1800 to 3600 cubic feet per acre of disturbed area entering the inlet for full effectivenes. Block and gravel (crushed stone, recycled concrete is also appropriate) protection is used when flows exceed 0.5 c.f.s. and it is necessary to allow for overtopping to prevent flooding. Filter barrier protection (similar to a silt fence barrier around the inlet) is appropriate when the drainage area is less than one acre and the basin slope is less than five (5) percent. This type of protection is not applicable in paved areas. Capital CostsMaintenanceTrainingSuitability for Slopes > 5% Nutrients

 Toxic Materials

 Oil & Grease
 Floatable Materials
 Other Construction

 Wastes

 ○ • ~ O ● Varies eted Constitu Drop Inlet With Grate Elevation Of Stake And Fabric Orientation Perspective View Perspective View 2"x2" Wood Stake Or Steel T-post II. Alternate Installation I. Standard Installation Isometric Plan View Detail A 1" Dia. Weep Holes, To Be Filled With Grout Prior To Backfilling Of Storage Area Cross Section Plan View

MONK CONSULTING ENGINEERS
1200 W. State Street, Garland Texas 75040
972 272-1763 Fax 972 272-8761

sheet:

© 2008 Monk Consulting Engineers, All Rights Reserved

The same

DETAIL SHEETS

BMP DETAILS

NFORMATION SHOWN ON THESE PLANS WAS FURNISHED BY THE CONTRACTOR. ALL RESPONSIBILITY FOR THE ACCURACY BELONGS TO THE CONTRACTOR.

AS-BUILT OCTOBER 27, 2009