

SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

This plan note should be used where sediment collection/control is necessary on project types such as: grading, resurfacing, chip seals, joint repair, sidewalk replacement, sidewalk repair, and others as necessary.

This type of sediment control device should be used where there is pavement in the vicinity of the drop inlets and storm water or sediment could possibly enter the frame and grate. Sediment Control at Inlet with Frame and Grate will be installed prior to working in the vicinity of the drop inlets.

The Contractor will be responsible for maintaining and repairing the sediment control devices for the duration of the project for which sediment control measures are required. Maintenance will be scheduled to prevent storm water from backing up into the driving lane.

“Sediment Control at Inlet with Frame and Grate” will be paid for one time at each location, regardless of the number of times the sediment control devices are installed, inspected, cleaned, removed, repaired, or replaced. All costs associated with furnishing, installing, inspecting, maintaining, cleaning, sediment removal, and repairing Sediment Control at Inlet with Frame and Grate will be incidental to the contract unit price per each for “Sediment Control at Inlet with Frame and Grate”.

Sediment collection devices will be:

A commercial made sediment collection device from the “Sediment Control at Inlet with Frame and Grate” list or an approved equal. The device will be installed in reinforced concrete drop inlets in accordance with the manufacturer’s recommendations.

The following light orange text may be added to allow Standard Plate 734.10 for projects where ALL locations meet the following conditions:

- The project is small and/or short-term.
 - There is little or no soil disturbance surrounding the inlet.
 - The average precipitation for the area is less than 2.5” for the month(s) of construction.
- (For average monthly precipitation refer to:
<http://climate.sdstate.edu/archives/data/pptnormals.shtm>)

OR

A sediment control device as shown on Standard Plate 734.10. Filter fabric used for constructing the sediment control at inlets with frames and grates will be the same type of fabric that is used in high flow silt fence from the approved product list. The approved product list may be viewed at the following internet site:

<http://sddot.com/business/certification/products/Default.aspx>

Sediment Control at Inlet with Frame and Grate Approved List:

<u>Product</u>	<u>Manufacturer</u>
InfraSafe Debris Collection Device with filter sock	Royal Environmental Systems, Inc. Stacy, MN Phone: 1-800-817-3240 www.royalenterprises.net
Dandy Curb Sack and Dandy	Dandy Products Inc.

Curb Bag for curb inlets.
Dandy Bag, Dandy Sack, and Dandy Pop for median drains.

Dublin, OH
Phone: 1-800-591-2284
www.dandyproducts.com

Silt Trapper

Storm Water Solutions
Lakeville, MN
Phone: 1-952-461-4376
www.silttrapper.com

DIP Basket

Skyview Construction Co., LLC
Summit, SD
Phone: 1-605-520-0555

FLEXSTORM Inlet Filters

Inlet and Pipe Protection, Inc.
Naperville, IL
Phone: 1-866-287-8655
www.inletfilters.com

GR-8 Guard
or
Combo Guard

ERTEC Environmental Systems LLC
Alameda, CA
Phone: 1-866-521-0724
www.ertecsystems.com

Sediment Catchers

Shaun Jensen
Brookings, SD
Phone: 1-605-690-4950

Grate FX, Slammer, or VertiPro

Enviroscape ECM, Ltd.
Oakwood, OH
Phone: 1-419-594-3210
www.strawblanket.com

BX Inlet Sediment Boxes

BX Civil and Construction
Dell Rapids, SD
Phone: 1-605-428-5483
bx-cc.com

EZ-Flo and EZ-Catch

Flo-Water, LLC
West Des Moines, IA
Phone: 1-515-577-6763
www.flo-water.net

Basin Bag

Pro Drain Systems, Inc.
Highland, MI
Phone: 1-248-329-7001
www.prodrainsystems.com

TABLE OF SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES

Station	L/R	Quantity (Each)
xx+xx	X	x
Total:		0

DEWATERING AND SEDIMENT COLLECTING

The plans should include the **OPTIONS FOR DEWATERING AND SEDIMENT COLLECTING** detail sheet. The detail sheet can be obtained from the Landscape Architects in the Office of Road Design.

The Contractor has the option to treat sediment laden water trapped within the project limits or the Contractor may elect to transport sediment laden water off the project. Refer to the **OPTIONS FOR DEWATERING AND SEDIMENT COLLECTING** detail sheet for more information.

Water transported off the project limits will not be disposed of in an area where it can enter a waterway. The disposal site must be approved by the Engineer.

STREET SWEEPING

Vehicle tracking of sediment from the construction site will be minimized. Street sweeping will be used if erosion and sediment control best management practices are not adequate to prevent sediment from being tracked onto the street.

The Contractor will use a pickup broom having integral self-contained storage to clean the roadway. The pickup broom used will be a minimum of 6 feet wide and have working gutter brooms.

At a minimum, sweeping will be required:

1. Prior to opening any segment or roadway to traffic.
2. Following pavement grooving operations and prior to the application of the pavement marking tape.
3. When sawing operations are underway in the inside driving lanes, the outside driving lanes and gutter may need to be swept to control dust.

All costs for cleaning the roadway with a pickup broom will be incidental to the contract unit price per hour for "Sweeping".

CONSTRUCTION ENTRANCE

This plan note and the SDDOT Construction Entrance plan note and detail should be included in the plans when there is a potential for mud tracking onto paved roadways during any construction operations.

The Contractor will install a Construction Entrance at locations where there is a potential for mud tracking and sediment flow from the construction site and work area onto a paved public roadway.

It is the Contractor's option to use the SDDOT Construction Entrance (See SDDOT Construction Entrance notes and details), a product from the list provided in these notes, or other products or processes as approved by the Engineer during construction.

If the Contractor elects to use one of the products listed in the table, then the Contractor will install the construction entrance product in accordance with the manufacturer's installation instructions or as directed by the Engineer.

The Contractor will maintain the construction entrance such that mud tracking and sediment flow will not enter the roadway or adjacent drainage areas. The construction entrance will be routinely inspected, and the Contractor will repair or replace material as deemed necessary by the Engineer.

All costs for furnishing, installing, maintaining, and removal of the construction entrance including equipment, labor, materials, and incidentals will be included in the contract unit price per each for "Construction Entrance".

The following table is a list of known construction entrance products available for use:

<u>Product</u>	<u>Manufacturer</u>
Grizzly Rumble Grate (10' width and 24' length required)	Trackout Control, LLC Tempe, AZ Phone: 1-800-761-0056 www.trackoutcontrol.com
Rumble Grid (12' width and 24' length including combination of grids and ramps required)	Pro-Tec Equipment, Inc. Charlotte, MI Phone: 1-800-292-1225 www.pro-tecequipment.com
Tracking Pad (12' width and 24' length (2 – 12'x12' pads) and 2 – 4'x4' turning flares)	Tracking Pads LLC Denver, CO Phone: 1-719-371-3791 www.trackingpads.com
FODS Trackout Control Mat (12' width and 5 mats to get a 35' length)	FODS, LLC Denver, CO Phone: 1-844-200-3637 getfods.com
DuraDeck and MegaDeck HD An adequate quantity is needed to prevent tires from becoming muddy (does not remove mud)	Signature Systems Group, LLC Flower Mound, TX Phone: 1-800-709-8151 www.duradeckmats.com

SDDOT CONSTRUCTION ENTRANCE

This plan note and the related detail will be included in the plans when the Construction Entrance note is provided in the plans. The detail sheet can be obtained from the Landscape Architects in the Office of Road Design.

If the SDDOT Construction Entrance is utilized, then the Contractor will install the SDDOT Construction Entrance in accordance with these notes and the detail drawings.

Pit run material will be obtained from a granular source and will conform to the following gradation:

<u>Sieve Size</u>	<u>Percent Passing</u>
6"	100%
#4	0-60%
#200	0-20%

The pit run material will be compacted to the satisfaction of the Engineer.

The aggregate for the granular material will conform to the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
3"	100%