

**ITEM 209.1101 11 – TEMPORARY CATCH BASIN INSERTS FOR DRAINAGE STRUCTURES – TRASH, SEDIMENT AND DEBRIS REMOVAL**

**ITEM 209.1102 11 – TEMPORARY CATCH BASIN INSERTS FOR DRAINAGE STRUCTURES – OIL, HYDROCARBONS, TRASH, SEDIMENT AND DEBRIS REMOVAL**

**ITEM 209.1103 11 – TEMPORARY CATCH BASIN INSERTS FOR DRAINAGE STRUCTURES – OIL AND HYDROCARBON ABSORBENT POUCHES**

**DESCRIPTION:**

The work shall consist of furnishing, installing, maintaining, removing and disposing of catch basin inserts for drainage structures at the locations indicated in and in accordance with the contract documents and as directed by the Engineer.

**MATERIALS:**

The following sections of the standard specification shall apply:

Geotextiles 737-01

With the following qualifications:

- the geotextile used shall meet the requirements of Table 737-01G.

The temporary catch basin insert shall be a commercially manufactured system that fits inside a drainage structure and traps sediment transported by runoff.

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or equal as approved by the Engineer.

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To be approved for use, each temporary catch basin insert for drainage shall have the following features:

- total suspended solids (TSS) removal rate of at least eighty percent (80%) based on visual inspection,
- allow for stormwater event overflow bypass. No product shall be approved unless it includes an overflow mechanism.
- inserts must be capable of being re-used (after first maintenance activity) a minimum of one time,
- easy to clean and replace geotextile inserts,
- include handles and fasteners to keep the insert from falling into the inlet during maintenance and removal, and
- Not interfere with all traffic modes.

**Submittals:**

Submit product information to the Engineer thirty (30) days prior to the planned date of installation for review and approval of the system.

**CONSTRUCTION DETAILS**

The following section of the standard specifications shall apply:

Soil Erosion and Sediment Control 209-3.01

with the following exceptions:

- Torn or punctured silt fence fabric must be replaced
- Sediment deposition removed from the catch basin insert shall be disposed of in accordance with §107-10 E.

**Installation:** Install the temporary catch basin inserts according to manufacturer's instructions.

**Inspection:** Using the most restrictive inspection criteria listed below, the Contractor shall inspect catch basins:

- weekly,
- after a rainfall event of 13 mm or more per twenty four (24) hour period,
- as per manufacturer's instructions, and/or
- as per the conditions of the Stormwater Pollution Prevention Plan (SWPPP) (if any exists).

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Maintenance: Maintenance shall include the following:

- Remove all accumulated sediment and debris from the vicinity of the catch basin after each rainfall event of 13 mm or more per twenty four (24) hour period and prior to removal of the insert for maintenance.
- Remove insert according to manufacturer's instructions.
- Empty the unit when the catch basin insert's containment area is more than one third (1/3) full or before the sediment/trash/debris reaches the overflow openings.
- Refer to the manufacturer's instructions for emptying and re-installing the catch basin insert. Removal of trash, sediment and debris from the insert shall be done in a manner that ensures no trash, sediment or debris will enter an unprotected catch basin.
- Disposal of the removed sediment shall occur at an upland location away from all stormwater conveyances.
- Trash shall be disposed of according to §107-10 E. of the standard specifications.
- If a catch basin insert's fabric or strap is torn, dispose of the sediment and debris contained within the unit according to this specification and replace the entire unit.
- When the servicing of a catch basin insert results in a non-functioning or poorly-functioning unit, the unit shall be replaced.
- Catch basin inserts shall be removed prior to winter shut down. Re-installation of the unit(s) shall occur prior to ground disturbance or first thaw in the following spring, whichever occurs first, and according to manufacturer's instructions.

Catch basin inserts shall be removed according to §209-3.01 and disposed of according to §107-10 E. after all soil disturbance areas have been fully stabilized with an established, permanent and approved vegetative cover at a uniform density of eighty percent (80%).

**METHOD OF MEASUREMENT**

The work will be measured as the number of each catch basin insert for drainage structures furnished, installed, maintained, removed and disposed of.

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**BASIS OF PAYMENT**

The unit price bid for each catch basin insert for drainage structures furnished, installed, maintained, removed and disposed of shall include the cost of all labor, materials, and equipment necessary to satisfactorily complete the work.

Payment will be made under:

<b>Item Number</b>	<b>Description</b>	<b>Unit</b>
209.1101 11	Temporary Catch Basin Inserts for Drainage Structures – Trash, Sediment and Debris Removal	EA
209.1102 11	Temporary Catch Basin Inserts for Drainage Structures – Oil, Hydrocarbons, Trash, Sediment and Debris Removal	EA
209.1103 11	Temporary Catch Basin Inserts for Drainage Structures – Oil and Hydrocarbon Absorbent Pouches	EA