

2.3.2 Storm Water Discharge Standards

General

The purpose of the storm water discharge requirements is to ensure that state facilities are constructed and operated in a manner that conserves and protects the waters of the state and to eliminate or reduce the risk of flood damage to property and life. The goal of stormwater management design should be, to the extent practical, no net increase to peak flows, no new stormwater connections, and infiltration with minimal engineering control structures (i.e., catch basins, piping, etc.).

Both the Architect/Engineer (A/E) and the General Contractor shall conform to the requirements of Department of Environmental Protection's (DEP) storm water and dewatering wastewater discharge statutes and regulations. They shall use current "Best Management Practices" such as the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* (DEP Bulletin 34) (as amended), *2004 Connecticut Stormwater Quality Manual* (as amended), or other practices acceptable to DEP and DPW. In addition, LEED[®] Silver, or equivalent, standards and criteria for sustainable site design shall be incorporated as applicable.

All projects that involve site work require a "Soil Erosion and Sediment Control Plan" or a "Storm Water Pollution Control Plan." The type and complexity of the plan will depend on the size and particular conditions of each site:

- If the construction on a site disturbs **one (1) or more acres**, then a "Stormwater Pollution Control Plan" that conforms to the "General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities" shall be prepared and the project will require **registration** with the DEP.
- If the site disturbance is **less than one (1) acre**, a "Soil Erosion and Sediment Control Plan" that conforms to the 2002 Connecticut Guidelines, as amended, shall be prepared and **no registration** with the DEP required. A Soil Erosion and Sediment Control Plan is a "simple" Stormwater Pollution Control Plan.

If the construction activities will result in the disturbance of one (1) or more total acres of the site and the other conditions for eligibility for a "General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities" are met, the A/E shall prepare and submit a completed Stormwater Pollution Control Plan and a General Permit Registration Form to the Department of Public Works (DPW) for submission to the DEP as part of the Contract Documents. This includes the Environmental Professional Certification part of the general permit registration form. The A/E shall also provide copies, with support documents, to the General Contractor for record files at the construction site. *Note:* The term "General Contractor" shall refer to either the "General Contractor" or the "Construction Manager," whichever is applicable.

For clarification and compliance purposes with regard to DPW projects requiring the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, the General Permit Registration Form, and other applicable DEP forms, the following terms shall mean the General Contractor: *Developer, Permittee, Registrant, Owner, and Applicant.*

If a Stormwater Pollution Control Plan is required for the project it shall be designed to address two components of stormwater pollution: (1) pollution caused by soil erosion and sedimentation during and after construction; and (2) stormwater pollution caused by use of the site after construction is completed, including, but not limited to, parking lots, roadways and the maintenance of grassed areas. In addition, the plan shall be prepared to minimize any adverse increases to the peak flow rate, the timing of runoff and the volume of runoff. Hydrology studies may be conducted at a level of detail commensurate with the probable impact of the project.

For projects ranging from one (1) to less than ten (10) acres of site disturbance, the Stormwater Pollution Control Plan is not required to be submitted with the general permit registration. However, projects involving ten (10) or more acres require the plan to be submitted with the registration along with an additional five hundred dollars (\$500.00) for Plan Review.

If the project, or portion thereof, is located in a designated "base flood" floodplain area ("A Zone" or 100-year floodplain) as published on the National Flood Insurance Program maps or would increase peak runoffs rates or change the location and quantity of discharge, then the A/E shall prepare and submit a completed "Flood Management Certification" application to DPW for review. If a Flood Management Certification application is required, then the A/E ***shall*** submit a complete application to DPW for review at the beginning of the Design Development phase. The A/E shall coordinate and work with DPW Environmental Planning to ensure the application is submitted to DEP ***no later than the fifty percent (50%) stage of the Design Development phase***.

Responsibilities of the A/E and the General Contractor

The A/E, through their professional civil engineer, shall:

- During the preparation of the A/E contract scope, the A/E shall meet with DPW Environmental Planning to determine which type of plan and permit will be required for the project.
- Prepare a Soil Erosion and Sediment Control Plan, a Stormwater Pollution Control Plan, a General Permit Registration Form, a Flood Management Certification application, and other required DEP forms, as appropriate.
- Use DEP Publications to assist in preparing plans and applications, such as the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* (as amended), *2004 Connecticut Stormwater Quality Manual* (as amended), and the *Hydraulic Analysis Guidance Document* (DEP-IWRD-GUID-100) (as amended).
- Coordinate and accommodate drainage analysis and requirement needs between the DEP and the State Traffic Commission – DOT Drainage and Hydraulics.
- Prepare and submit the methods and design for the stormwater management facilities with the schematic design phase.
- Assist and provide DPW with the necessary documents for internal review and submission to DEP.
- Coordinate all questions or issues regarding DEP Inland Water Resource Division through DPW Environmental Planning. The A/E shall not submit an application to DEP IWRD without DPW review and without ensuring the project is listed on DPW's DEP Priority Project List. To place a project on this list contact the DPW Supervising Environmental Analyst.
- Include in the project specifications that the General Contractor meets their responsibilities in regards to storm water discharge and flood management, if applicable.

- Include in the Contract Documents, the Soil Erosion and Sediment Control Plan or Stormwater Pollution Control Plan, as the case may be, with the related text and details, and the General Permit Registration Form and/or an approved Flood Management Certification application along with any related DEP forms.
- During construction, the A/E via their professional civil engineer, shall, with the General Contractor, walk the site once a month, or after a heavy rain, to inspect all soil erosion and sediment control/storm water pollution control provisions.

The following direction is provided to the A/E to ensure continuity from design/permitting to construction and in the development of contract documents. This direction [options available] are a direct result from the A/E's modification of Division 1 General Requirements, "Construction Facilities and Temporary Controls" Section 01500 for the necessary options to the permitting process, and the possibilities shown below.

The General Contractor shall:

When registration for a General Permit is not required

- Be fully responsible for soil erosion and sediment control.
- Conform to the Soil Erosion and Sediment Control Plan included in the contract documents or other control plans approved by DPW and DEP. If the General Contractor prepares such a plan, it shall be prepared at the General Contractor's own expense.

When registration for a General Permit is required

- Be fully responsible for storm water discharges by submitting to DEP a General Permit Registration Form at least thirty (30) days prior to the commencement of the activity involving site disturbance of one (1) or more acres. For activities involving ten (10) or more acres, the Stormwater Pollution Control Plan shall be submitted for Plan Review along with the registration form. The General Contractor shall be responsible for compliance with the general permit requirements and registration form by serving as the *Developer, Permittee, Registrant, Owner, and Applicant*, as the case may be.
- Conform to the Stormwater Pollution Control Plan included in the contract documents or other control plans approved by DPW and DEP. If the General Contractor prepares such a plan, it shall be prepared at the General Contractor's own expense.
- Sign and cause to be signed by each appropriate subcontractor, the "Certification Statement" required by the General Permit.
- Provide, maintain, and monitor a rain gauge on the site; the monitoring procedures shall include maintaining a record log of the readings. The General Contractor shall provide the rain gauge.
- During construction, the General Contractor shall inspect the site in conformance with the General Permit, including an inspection at least once every seven days and within 24 hours of the end of a storm that is 0.1 inch or greater, as shown by the on-site rain gauge.

When a Flood Management Certification has been approved by the DEP

- Obtain a copy of the Flood Management Certification application and DEP approval letter.
- Comply with all construction-related mitigation or design elements.

For questions or assistance about these permits contact:

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