

Town of Manchester Public Improvement Standards

A Stormwater Management Report is not required if:

- *The proposed project will have little or no impact to the existing drainage system (i.e. building renovation with no site work, single family house); or*
- *The proposed project already has an approved Stormwater Management Report on file in the Engineering Division. (Note: Amendments to the originally approved Stormwater Management Report may be required to address compliance with requirements that were not in effect at the time of approval.)*

The applicant must submit a written waiver request to the Planning Department with any PZC/IWA application. Any questions regarding Stormwater Management Report Waiver Request (SWMRWR) should be directed to Jeff LaMalva, P.E., Town Engineer at 860-647-3158.

3.03.04 STORMWATER MANAGEMENT REPORTS

Stormwater Management Reports are written reports detailing the proposed drainage design and analysis of a project. The report shall detail the basic components of stormwater management as mentioned in Section 3.03.03 as it pertains to the proposed project. All Stormwater Management Reports must be signed and sealed by a licensed Professional Engineer.

Stormwater Management Reports are required for all site development within Manchester, including, but not limited to, development applications to Commissions and Boards, subdivision applications, inland wetlands applications, public road construction and projects which discharge to public roadways.

At a minimum, the Stormwater Management Report shall include:

- A narrative summarizing the proposed project, design methods used, and a table comparing post-development peak flows with pre-development peak flows.
- A Drainage Area Map with topographical contours showing upstream contributing drainage areas and labeled to coincide with the drainage computations.
- Floodplain and/or floodway boundaries as defined on the Manchester Flood Insurance Study, Flood Boundary and Floodway Map, if applicable.
- Inland Wetland boundaries as defined on the Town of Manchester Inland Wetlands and Watercourses map or as field delineated by a soil scientist.
- An inventory and evaluation of on-site hydraulic structures and watercourses within the downstream zone of influence with information on their flow capacity and physical condition. The downstream zone of influence generally extends to the next two existing structures downstream of the proposed outlet. The Engineer will confirm the exact location of the limit of analysis required.

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- Identification of drainage structures and watercourses that are inadequate under existing or reasonably anticipated future conditions.
- Identification of the peak rate of runoff and flow velocities at various key points in the watershed and the relative timing of the peak flow rates.
- Supporting calculations (including times of concentration and runoff coefficients) for all proposed drainage facilities, including but not limited to: piping, structures, riprap, swales, detention basins, drywells, etc.
- Ponding calculations at all low points.
- Identification of aquifers or aquifer zones of contribution within the limits of the project.

The report shall be supplemented with a complete set of construction plans showing, in both plan and profile, all existing and proposed storm drain features. Tops of frame and invert elevations of all structures are required. Construction details shall also be provided for all drainage structures. Drainage structures and pipe systems shall be labeled to coincide with the drainage calculations.

Electronic copies of drainage computations shall be submitted with the Stormwater Management Report upon request of the Engineer.