

**TOWN OF CHESHIRE
DEPARTMENT OF PUBLIC WORKS/ENGINEERING**

84 SOUTH MAIN STREET, CHESHIRE, CONNECTICUT 06410
Telephone (203) 271-6650 Fax (203) 271-6659

**ENGINEERING DEPARTMENT POLICIES
TOWN OF CHESHIRE, CT
January 8, 2007 Revised to 4/14/14**

INTENT

The purpose of this document is to provide clarification of Engineering Department policies to professionals to assist them in the preparations of plans and reports to be submitted to the various Town of Cheshire regulatory agencies, such as the Planning and Zoning Commission, Inland Wetlands Commission, Public Building Commission and Water Pollution Control Authority. This is intended as supplementary information and is not to be used in lieu of any Law, Ordinance, Regulation or Specification. These are to be considered minimum requirements, measures exceeding these criteria are welcome.

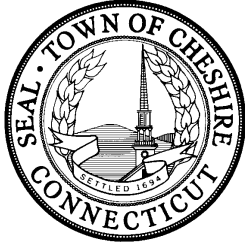
EASEMENTS

Sanitary sewer easements where required shall be 20 feet in width, with the main line pipe centered within the easement. Easements shall be located such that they can be accessed by vehicles from a public or private street and shall be filed on the land records of the Town of Cheshire upon final approval of the regulating body.

Drainage easements where required shall be 25 feet in width, with the main line pipe centered within the easement. Easements shall be located such that they can be accessed by vehicles from a public street. Drainage easements for private projects not involving water from a Town road or other Town property will be reviewed on a case by case basis.

STORM DRAINAGE DESIGN

The Town of Cheshire uses zero net increase in post-development run off for all development projects. It shall be demonstrated in a drainage report that the project can meet the net zero increase requirements for a 10, 25, 50 and 100 year storm event. Any appropriate back up data and calculations shall be included. If there is more than one sub-catchment area exiting the site, this net zero increase requirement shall apply to all individual sub-catchment areas as well as the overall site.



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STORM DRAINAGE DESIGN continued

In all cases attenuation shall be provided for increases in peak flows. In areas with known drainage problems, volumetric attenuation shall be required. Questions regarding problem drainage areas should be referred to the Engineering staff.

Plans shall show the drainage design in both plan and profile view. The profile shall show for every pipe run, the length of the pipe, type of pipe and slope of the pipe. Every drainage structure, catch basin, manhole, sediment chamber or environmental chamber, shall include all pipe inverts, both inlet and outlet, sump depths, stationing, and top of grate elevations.

Details sheets shall be provided for all structures.

Infiltration designs shall include all data and calculations to demonstrate that the system will perform as proposed. This includes percolation test results.

This Department encourages the use of environmental structures and environmentally sensitive designs. Sedimentation chambers are required prior to run-off from private properties entering a Town of Cheshire storm drainage system. We encourage Engineers to discuss unusual designs and other design concerns with the Town of Cheshire staff prior to submitting applications.

STORM DRAINAGE REPORTS

All reports shall include a narrative summary. This summary shall include statements regarding the existing conditions of the site and post-development conditions. A chart or table summarizing the pre and post development flows for the 10, 25, 50 and 100 year storms shall be included. The report shall be written in a clear and concise manner. This report shall also include information about the method used to evaluate the site drainage and why that method was chosen over others, ie, the appropriateness of the method chosen for the site.

This office is interested in seeing the background calculations for the run-off coefficient, c , and the values of other variables and how they were chosen. For the initial review, pages of computer calculations/print outs are not required, if they are required by this Department to complete a review, they will be requested. Reports should include the Engineer's conclusions and recommendations where appropriate.



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RETAINING WALLS

All proposed retaining walls shall be shown on the plans. Submissions shall include a design for the walls and shall demonstrate that the type of wall system proposed is appropriate for the intended use and site conditions.

PLANS

All plans submitted shall be neat, easy to read and at an appropriate scale. Small type shall be avoided and notes shall be neat and concise. Notes shall be located near items they refer to and tie lines for notes shall be short and not cross each other wherever possible. Plan sheets shall not be larger than 24"x36".

REVISIONS

All revisions are to be neatly executed and a cover sheet shall be provided listing all revisions made. It is strongly suggested that this office be contacted to clarify any of its review comments that are not clearly understood. It should be noted, however, that it is not the duty of this office to design projects for applicants and questions of this nature will not be answered.

EROSION AND STABILIZATION

The transportation of eroded materials onto Town roads or into drainage systems is prohibited. The applicant shall demonstrate that appropriate permanent measures are utilized to ensure the stability of earthen materials. All proposed solutions, such as plantings, permanent fabrics and other measures shall be selected based on site conditions of soil type, topography (grade), location, etc.

USE OF TOWN REFERENCE MATERIALS

Materials such as topographic mapping, GIS information and other information made available by the Town for public use shall be used in a proper and appropriate manner. The Town does not warrant the suitability of any resource in its possession for any use. It is up to the licensed professional to determine if the resources available are appropriate for the proposed use.