

February 19, 2008

Enfield Town Council
Matthew W. Coppler, Town Manager

Subject: **EROSION & DRAINAGE REPORT**

Councilors:

Background:

Since November 2007, Town Staff has been developing a comprehensive report on erosion and drainage concerns by location in Enfield. To our knowledge, this is the first time a report of this nature has been prepared.

As will be observed from the report, despite tremendous progress to correct roadside drainage issues through the Road 2000 and Road 2005 programs, a substantial amount of work still needs to be done. This can be attributed to:

- The size of Enfield.
- The number of paved roads in the community.
- The substantial amount of development which has occurred.
- The presence of escarpments soils which are unique to this area and highly susceptible to erosion.

Attached to this cover memo are two reports:

- [Power-point printout](#)  which is a detailed listing of the projects, their locations, problems, and general cost estimates.
- A listing of the projects which includes their [estimated costs](#) , priority rankings, and whether they are located on public or private property.

In reading the attached reports, it should be noted that erosion and drainage issues have been identified for both public and privately-owned properties. However, the funding strategy being recommended reflects work on land which the Town of Enfield owns, or has easements to maintain.

Organization:

Projects identified in this report have been organized into four categories:

- Erosion Problem Areas.
- Flooding Problem Areas.
- Street Drainage Areas.
- Other Drainage Issues.

The projects within each of these categories were prioritized by the work team in terms of the severity of their problem. Taken into consideration was the public safety risk of potential damages to infrastructure, buildings, and dwellings.

Cost estimates have been developed and three cost groupings created as follows:

- Group A - Individual projects which cost less than \$50,000. The total cost estimate to publicly-owned property in Group A is \$200,100.
- Group B - Individual projects which cost between \$50,000 and \$300,000. The total cost to publicly-owned property in Group B is \$1,017,750.
- Group C - Individual projects which cost in excess of \$300,000. The cost estimate to publicly-owned property in Group C is \$4,128,500.

Cost & Funding Strategy:

In summary, there is an estimated \$5,346,350 of erosion and drainage work to publicly-owned lands which has been identified in this report. An additional \$1,716,950 of work to privately-owned property has also been listed.

In developing a strategy to fund work on publicly-owned land, it is recommend that a combined, "pay as you go" and "pay over time" concept be employed. This concept consists of the following:

- Establish an on-going account in the Capital Improvement Budget for erosion and drainage maintenance work. It is recommended that \$100,000 be appropriated annually to this account. This account can be used to address individual projects which cost less than \$50,000 (Cost Group A).
- Appropriate approximately \$340,000 per year for the next 3 fiscal years to address individual projects which cost between \$50,000 and \$300,000 (Cost Group B). By doing so, it is possible to fund those projects within this group in approximately 3 fiscal years.
- Develop a referendum question for Election Day on November 4, 2008 to authorize bonding to address those projects which cost over \$300,000 (Cost Group c).

A detailed funding schedule can be found in the [Power-point printout](#) .

Summary:

It should be noted that Town Staff developed this report. No consultants were engaged.

The individuals who participated in this Team project deal with erosion and drainage concerns on a daily basis. It was also instrumental to have representatives from the Town Attorney's Office, Risk Management, and Finance Department as part of this Team effort.

Staff will be available for follow-up work based on feedback and direction received from the Town Council and the Town Manager.

Link to: [Slideshow](#) 
[Estimated Costs](#) 

Respectfully Submitted,

Daniel T. Vindigni
Assistant Town Manager