

ENVIRONMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: ALTERNATE STREET DESIGN

RECOMMENDATIONS:

1. THAT Council decline pursuing the alternate street design pilot project on 6300-6500 Clinton St. based on the outcome of consultations with the residents within the project area.
2. THAT Council authorize staff to initiate consultation with residents of Watling St. between Nelson Ave. and Waverley Ave. for alternate street pilot project, and report back appropriately.

REPORT

The Environment Committee, at its meeting held on 2009 October 13, received and adopted the *attached* report providing an update on the status of alternate street design pilot project on 6300-6500 block Clinton Street.

Rain gardens and alternate street design concepts offer significant environmental benefits by lessening peak flows, recharging groundwater and reducing run-off pollution loadings. Although the pilot project has not received strong support from residents living on 6300-6500 block Clinton Street, it does merit pursuing it at other identified sites within Byrne Creek watershed. It is recommended that Watling Street be considered as an option for an alternate street design pilot project site and staff be authorized to initiate consultation with the area residents.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor S. Dhaliwal
Vice Chair

Councillor A. Kang
Member

Copied to:	City Manager Director Planning & Building Director Engineering
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TO: CHAIR AND MEMBERS
ENVIRONMENT COMMITTEE

DATE: 2009 October 06

FROM: DIRECTOR ENGINEERING

SUBJECT: ALTERNATE STREET DESIGN

PURPOSE: To update the Committee and Council on the status of alternate street design pilot project on 6300-6500 block Clinton St.

RECOMMENDATION:

1. **THAT** The Committee recommend Council to:
 - a) Not pursue with alternate street design pilot project on 6300-6500 Clinton St based on the outcome of consultations with the residents within the project area;
 - b) Authorize staff to initiate consultation with residents of Watling St between Nelson Ave and Waverley Ave for alternate street pilot project, and report back appropriately.

REPORT

1.0 INTRODUCTION

At the Environment Committee meeting on 2009 September 08, the Committee received correspondence from Ms. Deborah Jones, Rain Gardens Coordinator, Cougar Creek Streamkeepers (North Delta/Surrey) requesting the City to consider upgrading Rumble St to incorporate rain gardens or street edge alternative. Staff advised that the City is currently working on a phased alternate street design pilot project on 6300-6500 block Clinton St which is adjacent to Rumble St and will provide an update to the Committee on the project.

The following report provides the Committee and Council on the status of alternate street design pilot project on 6300-6500 block Clinton St.

2.0 CURRENT PROJECT STATUS

The concept of rain gardens and alternate street designs have been used by many communities to offer local and watershed scale environmental benefits through peak flow reductions, groundwater recharge and reduction in run-off contaminant loadings. The City recognizes the importance of the stormwater quality issue and gives due consideration to installing rain gardens during street upgrades where feasible. Recently as a part of upgrading Moscrop St between Willingdon Ave and Boundary Rd, a rain garden was installed to assist in reducing road run-off impact. With respect to alternate street design, staff at the direction of the Committee and Council, have been working on a pilot project on alternate street design concept within the Byrne Creek watershed.

As the Committee may recall, a three phase pilot project on alternate street design concept was proposed to improve roadway storm water management in Byrne Creek watershed:

- Phase 1 (completed): Involved a feasibility study to develop conceptual design and cost estimates for alternate street design concept.
- Phase 2 (currently underway): Included selecting a street for demonstration project, consulting with residents living within the demonstration project site, undertaking detailed design to confirm final design parameters for 90% pervious roadway and explore funding options.
- Phase 3: involves project implementation to advance the project to construction subject to receiving Committee and Council approval and to develop post-construction monitoring program.

As a part of Phase 2 of the project, staff had undertaken a review of existing streets within Byrne Creek watershed based on the selection criteria which included: land use (existing vs. future), roadway configuration (road length, road profile, pavement condition), existing utilities and future upgrades, hydrogeology, landscape and environmental conditions. Of the fourteen candidate sites identified, three potential sites were found to be suitable for the alternate demonstration project subject to further detailed review. These included:

- a) Clinton St, between Hedley Ave and cul-de-sac (east of Gilley Ave);
- b) Watling St, between Nelson Ave and Waverley Ave; and
- c) Carson St, between Royal Oak Ave and McGregor Ave.

Based on further detailed review by the City's consultant retained to undertake preliminary and detailed design, it was recommended that Clinton St be selected for the alternate street design demonstration project. Furthermore, it was recommended that should the City not be able to receive the desired resident support at the Clinton St site, then the City should consider Watling St site, followed by the Carson St site.

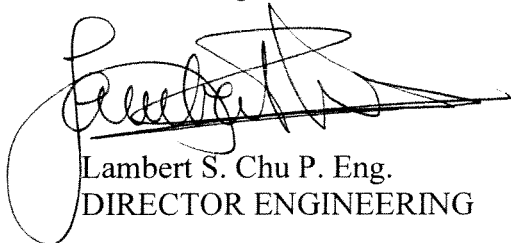
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From: Director Engineering
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Upon receiving Committee and Council approval and prior to advancing to the detailed design phase, staff initiated a consultation process with the residents living within the demonstration project site to seek their approval. The first Open House was held at Clinton Elementary School to inform the residents of the pilot alternate street demonstration project and seek their input on the conceptual alternate design concept. Based on the feedback, a second Open House was held on site to respond to issues raised during the first Open House relating to drainage, front site access and parking, and included a walkabout. A questionnaire survey was distributed to the residents attending the Open House as well as by mail to property owners/residents who could not attend. Of the 34 properties in the demonstration area, 28 responses were received. Based on these responses, only 15 responses showed support for the project, 11 responses opposed the project and 2 responses neither supported nor rejected the project. Major concerns raised by residents included future maintenance of the landscape, access and potential loss of parking in front of their property.

Given the lack of strong support from the residents, staff recommend that the City not pursue with alternate street design pilot project on 6300-6500 Clinton St. Furthermore, it is recommended that Watling St between Nelson Ave and Waverley Ave identified during the site selection phase be selected as an alternate street design pilot project site, and staff be authorized to initiate consultation with the residents living within the project demonstration site and report back appropriately before undertaking any detailed design work.

3.0 CONCLUSION

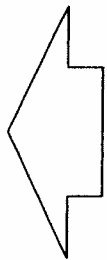
Rain gardens and alternate street design concepts offer significant environmental benefits by lessening peak flows, recharging groundwater and reducing run-off pollution loadings. Although the pilot project has not received a strong support from residents living on 6300-6500 Clinton St, it does merit pursuing it at other identified sites within Byrne Creek watershed. To this end, it is recommended that Watling St between Nelson Ave and Waverley Ave be considered as an option for an alternate street design pilot project site and staff be authorized to initiate consultation with the residents living within the project demonstration site and report back appropriately before undertaking any detailed design work.



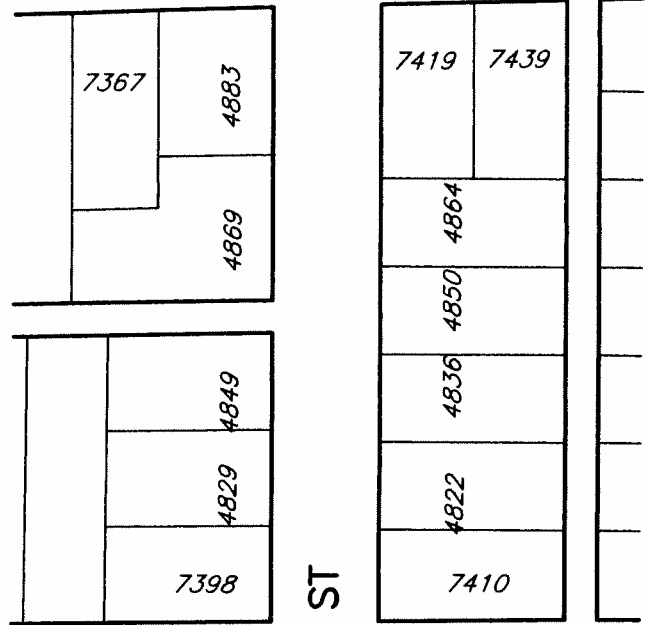
Lambert S. Chu P. Eng.
DIRECTOR ENGINEERING

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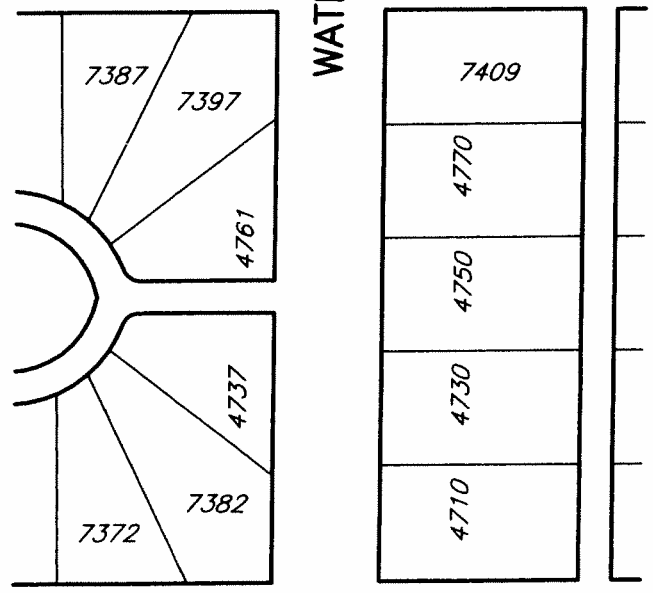
Copied to: City Manager
Director, Planning & Building



NELSON AV
 7350 7438



JUBILEE AV



WAVERLEY AV



NO.	DATE	REVISION



ATTACHMENT 1 10

DRAWN BY: HLOUIE	SCALE: N.T.S.	A 643
APPR'V'D BY:	DATE: 2009-10-06	