



City of Richmond

Report to Committee

To: Public Works and Transportation Committee

Date: March 1, 2010

From: John Irving, P.Eng. MPA
Director, Engineering

File: 10-6340-20-
P.10601/Vol 01

Re: Hamilton Area Sanitary Servicing Strategy

Staff Recommendation

That the staff report "Hamilton Area Sanitary Servicing Strategy" be endorsed for future public consultation.

John Irving, P.Eng. MPA
Director, Engineering
(604-276-4140)

Att. 1

FOR ORIGINATING DEPARTMENT USE ONLY			
ROUTED TO:	CONCURRENCE		CONCURRENCE OF GENERAL MANAGER
Sewerage & Drainage	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
REVIEWED BY TAG	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	REVIEWED BY CAO
			YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

Staff Report

Origin

Council approved the East Richmond Sanitary Service Area Rehabilitation and Upgrades project as part of the 2010 Capital Program. This project includes the cost to construct sanitary infrastructure as part of the City's commitment to service the Translink Bus Facility development proposed in the Hamilton area.

The purpose of this report is to present Council the Translink and Hamilton area sanitary servicing strategy for information.

Analysis

The proposed Translink development in the Hamilton area is located near the eastern extremity of the City near the New Westminster border. Sanitary service for this area in general is provided by either septic fields located on private property or through City owned sanitary infrastructure including pipes and pump stations.

The area in the vicinity of the proposed Translink site is currently serviced by private septic fields. In order for the Translink development to proceed, it is necessary to construct a sanitary service system. Accordingly, staff developed a sanitary servicing plan (Attachment 1) for the areas of Hamilton in the vicinity of the proposed Translink development. Public consultation on the servicing of the Translink development was completed through the development approval process. It is proposed that the attached Hamilton Area Sanitary Servicing Strategy be used for future public consultation.

The proposed strategy highlights the system of pipes and pump stations necessary to service those areas of Hamilton that are currently unserved (see attached plan). The full implementation of the strategy would occur over many years and would be triggered by further development in the area with funding being provided from development and DCC's. Once complete, the use of septic fields in the Hamilton area will be eliminated.

Detailed design of the Translink portion of the Hamilton area sanitary servicing strategy is underway. This includes:

- Pump Station on Thompson Gate
- Gravity line on Boundary Rd and Thompson Gate from the Translink frontage to the PS
- Forcemain from the PS to Gilley Rd

Construction is scheduled to be complete by February 2011 in order to accommodate the Translink development schedule and the terms of the Infrastructure Stimulus Fund (ISF) grant received by the City for this project. The value of the Federal/Provincial ISF grant is approximately \$2.05 million.

The preliminary and detailed designs are being optimized to service the OCP scenario for the area. Future development will be higher density than existing and future buildings will have to be built with higher finished floors to conform with the Floodplain Designation & Protection Bylaw. The sanitary servicing is being designed to accommodate this and will be capable of servicing most existing buildings, however some existing buildings will be too low to be serviced without being raised through redevelopment. Installing a system that would service all existing buildings would require additional pump stations or deeper mains and pump stations that would be technologically challenging and more costly to build.

Those properties that front the proposed gravity main works will be given the opportunity to have a sanitary connection installed for the cost of that connection as per the Drainage, Dyke and Sanitary Sewer Bylaw.

Financial Impact

There is no financial impact at this time.

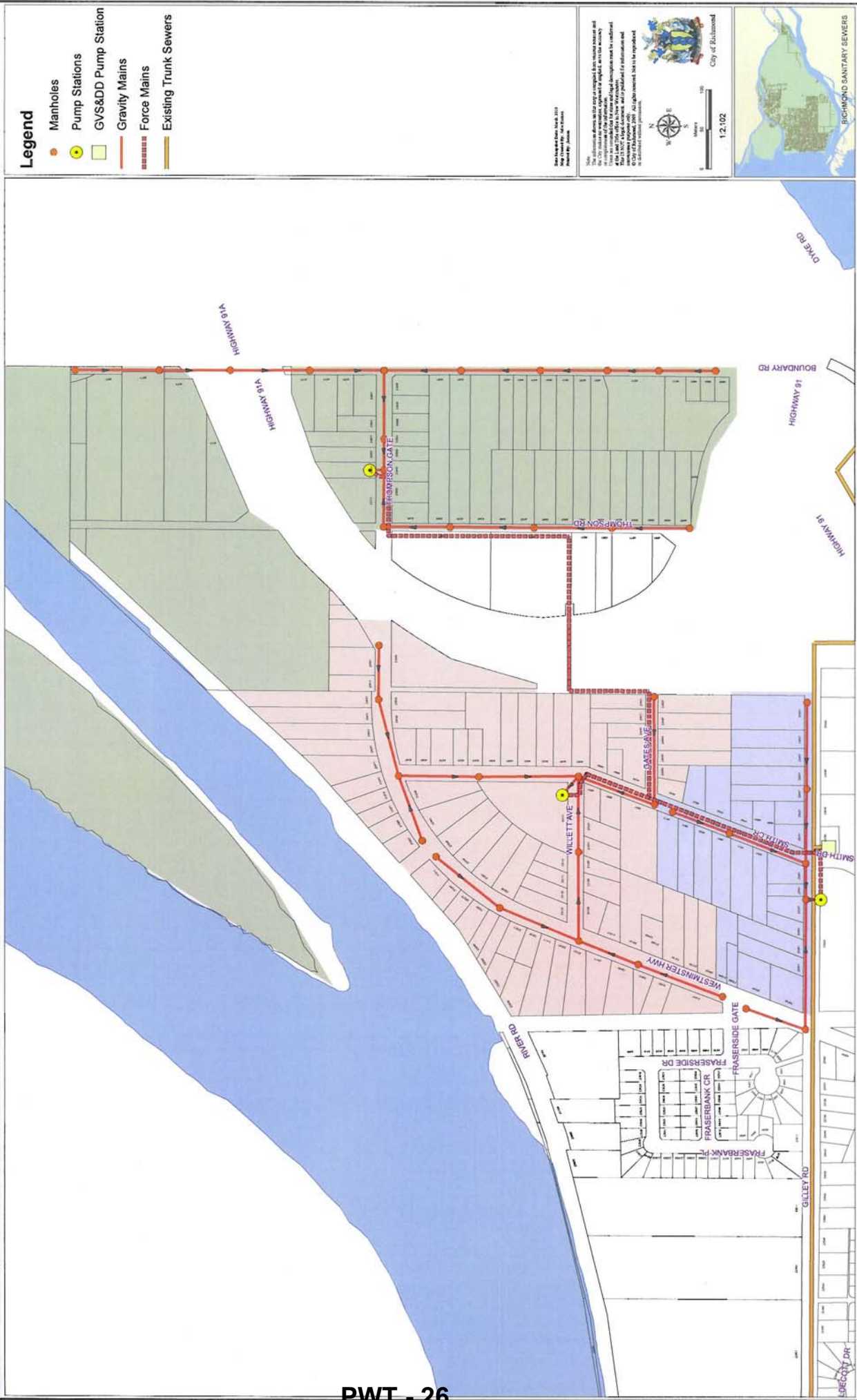
Conclusion

A sanitary servicing plan was developed to accommodate the proposed Translink development in the Hamilton area of the City. This area is currently serviced only by septic fields. Staff are proceeding to complete detailed design and construction by February 2011 in order to accommodate the Translink schedule and terms of the ISF grant.

 *J. Young* P.E.R.

Jim V. Young, P. Eng.
Manager, Engineering Design and Construction
(604-247-4610)

JVY:jvy



Legend

- Manholes
- Pump Stations
- GVS&DD Pump Station
- Gravity Mains
- Force Mains
- Existing Trunk Sewers

Map Legend Date: March 2011
 Project: PWT - 26
 Prepared by: Jacobs

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