



**REPORT TO CORE AREA LIQUID WASTE MANAGEMENT COMMITTEE  
MEETING OF WEDNESDAY 13 OCTOBER 2010**

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**SUBJECT      CRAIGFLOWER FORCEMAIN SECTION PRE-BUILD ACROSS ISLAND HIGHWAY**

**ISSUE**

To inform the Core Area Liquid Waste Management Committee (CALWMC) on pre-building a section of the future Craigflower forcemain across the Island Highway adjacent to 4-mile bridge before View Royal's road improvement project is completed and paved.

**BACKGROUND**

Craigflower forcemain is part of the western system of the northwest trunk, serving the municipalities of Langford, Colwood, View Royal, the Esquimalt panhandle and both the Songhees and Esquimalt First Nations. The forcemain was originally constructed along Admirals Road in 1971 and was upgraded in 1994 when the Western Communities Trunk (WCT) was constructed.

When the WCT was designed, it was determined that the existing Craigflower pump station and forcemain would eventually require a major upsizing to accommodate increasing flows. The proposed route for the new larger forcemain is along the E&N Railway corridor which is relatively flat, shorter in length, free of other utilities, and would not disrupt traffic during construction and maintenance as would following the Admirals Road route.

Although the new forcemain is not needed immediately, staff of View Royal and the Capital Regional District (CRD) recognized an opportunity to install a short section of the forcemain across the Island Highway while road improvements are under construction. Constructing this section now will result in significant cost savings and avoid having to dig up the new road in a few years time. Attachment A contains a site plan of the forcemain crossing.

**FINANCIAL IMPLICATIONS**

View Royal's prime contractor, Don Mann Excavating, provided a lump sum quotation of \$78,353 plus HST to complete the highway crossing now, using a dedicated crew to complete the forcemain work. Staff continue to negotiate with the contractor for opportunities to reduce the cost of the work.

Funding for this work will be derived from the Trunk Sewer Reserve Fund, which has sufficient funds available to cover all costs. The allocation of costs to each contributing municipality and First Nation is based on their allotted design capacity. No requisitions are required.

If the forcemain crossing were installed at a later date, it would likely have to be tunneled due to the new utilities installed as part of the highway improvement project. The estimated cost to tunnel across the highway is \$300,000.

Given that the cost of the work is within the signing authority of the general manager and to avoid delay of the highway improvement project, approval to proceed was issued to the contractor.

**CONCLUSION**

View Royal and CRD staff identified an opportunity to install a section of the future Craigflower forcemain across the Island Highway as part of the road improvement project. Installing this section of pipe now will result in significant cost savings, less disruption, and will avoid having to dig up the new road in a few years. This work will be completed by the View Royal contractor completing the road improvement project.

**RECOMMENDATION**

That the Core Area Liquid Waste Management Committee receive this report for information.

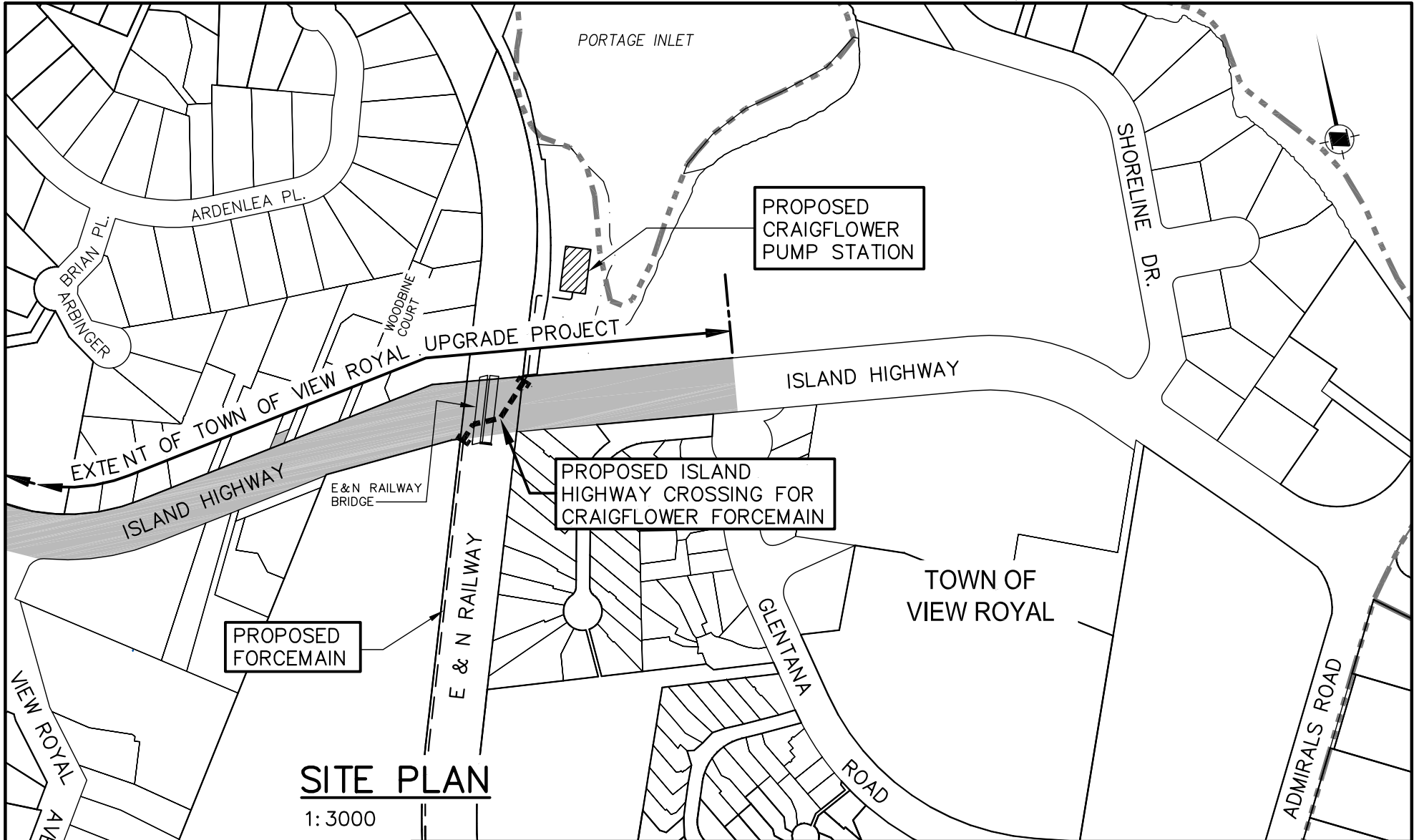
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J.A. (Jack) Hull, MBA, PEng  
General Manager, Integrated Water Services

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Larisa Hutcheson, PEng  
General Manager, Environmental Sustainability  
Concurrence

MJC:jta  
Attachment: 1



**SITE PLAN**

1: 3000



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**NORTHWEST TRUNK – WESTERN**

PROPOSED CRAIGFLOWER FORCEMAIN CROSSING  
ISLAND HIGHWAY, VIEW ROYAL

ATTACHMENT 'A'

DESIGNED M.C.	DRAWN L.N.	SCALE AS SHOWN	CHECKED M.C.	APPROVED M.C.	DATE 4/10/10	DWG. NO. <b>15-S172-1</b>	REV. 0	SHT 1	OF 1
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