

Professional Services Agreement – Traffic Engineering Analysis of Railway Crossing Intersections

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**From:** [Public Works](#)  
**To:** [Pam Rooke](#); [Hayley Cook](#)  
**Bcc:** [Binney Eng.](#); [ISL Eng.](#); [Stantec Eng.](#)  
**Subject:** Traffic Engineering Analysis of Railway Crossing Intersections in Lions Bay  
**Date:** June 7, 2022 11:02:00 AM  
**Attachments:** [image001.png](#) [image002.png](#)

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Good Afternoon, your firm is one of three selected to provide a response to this select request for proposal. If you are not the correct person to review traffic related requests, please forward to the appropriate contact within your firm.

**Background**

Transport Canada's Rail Safety Inspector's have identified an issue at the 3 railway crossings in Lions Bay and this is a request for quotation to answer a key issue that they have at each crossing.

Lions Bay has 3 railway crossings as follows:

1. Brunswick Beach (BB) Crossing (2 tracks – signalized with control arms) [Google Streetview of BB Crossing](#)
2. Lions Bay Avenue Crossing (LB) (1 track – signalized, no crossing arms) [Google Streetview of LB Crossing](#)
3. Kelvin Grove (KG) Crossing (1 track – signalized, no crossing arms) [Google Streetview of KG Crossing](#)

You will see from the streetview images, each crossing has a stop sign on either approach. In 2021 the Village received a grant from Transport Canada's Rail Safety Improvement Program to replace the crossing surfaces at BB and KG. Upon completion of that work, TC Rail Safety Inspectors visited Lions Bay's crossings and performed an audit. At issue by the Rail Safety Inspectors was that each of the 3 crossings had signals but also had stop signs at them – they cited the [Grade Crossings Handbook](#) which provides guidance to railways and road authorities:

**Section 8.4.3.:** Stop signs must not be installed at grade crossings equipped with a warning system.

Transport Canada's Safety Inspector's indicated "you wouldn't have a stop sign at a traffic light" in trying to explain the situation. While it is clear to me, it has caused strife in the community. The stop signs have been present at each of the crossings since the early 80's and many residents are loathe to see them go. They argue that we should be able to explain to TC Canada Inspectors that it only enhances safety by require vehicles to stop at the crossing regardless of whether a train is present or not. Removing the stop signs at two of the crossings also presents an issue with the existing road configuration as both locations have uncontrolled feeder routes entering the intersections (see the attached Google satellite images of both the Brunswick Beach and the Lions Bay Avenue crossings).

During peak season, the Lions Bay Avenue and Brunswick Beach crossings each may see 5,000 vehicles crossing in both directions per day while the Kelvin Grove crossings sees almost nothing.

**Request**

Transport Canada has been advised that the Municipality would need to engage traffic engineers to review each crossing and prepare recommendations on changes to enhance safety before we can remove the stop signs. To this end, I'm looking to get an estimate to review all three crossings:

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1. Collect and review background data
2. Meet with Municipal Staff (max 3 virtual sessions)
3. Review site conditions / measurements
4. Identify traffic and safety concerns
5. If not, recommend preferred traffic control configuration and additional improvements to address safety concerns
6. Review traffic operations for each location (inc.: delay, LOS, 95<sup>th</sup> percentile queues)
7. Prepare schematic drawings
8. Prepare report summarizing assessments, findings, recommendations and specifically detail why the stop sign cannot remain.

Please respond no later than June 15, 2022, at noon.

Sincerely,

**Nai Jaffer**

*Public Works Manager*

**The Village of Lions Bay**

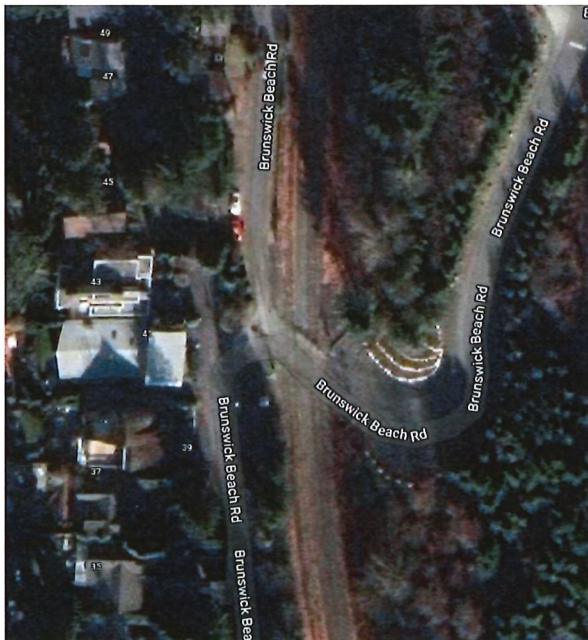
PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0

Village Office (604) 921-9333 ext. 1008 | Fax (604) 921-6643

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Brunswick Beach Crossing Intersection



Lions Bay Avenue Crossing Intersection

