

## 6 Summary

This study has reviewed various potential improvement opportunities for the Beaver/Victoria/Louisa intersections, assessing the impacts associated with each scenario with respect to traffic operations, development access, road safety and intersection design standards.

### Existing Conditions

While the traffic operations on the study area road network are otherwise excellent in terms of intersection operation and mid-block capacity, the orientation of Beaver Street, which bisects the otherwise grid-based road network at a 45% angle, creates substandard intersections at Louisa Street and Victoria Street.

### Alternative Solutions

In consideration of the planned reconstruction of Victoria Street and Louisa Street, the Town is exploring the opportunity to address the existing alignment of the intersections of Beaver Street with Victoria Street and Louisa Street in parallel with the reconstruction work. In identifying a preferred solution, the following alternative solutions were considered:

- Alternative 1 - Maintain Status Quo;
- Alternative 2 - Close Beaver Street from Victoria Street to Louisa Street;
- Alternative 3 - Close Beaver Street from Victoria Street to Foodland Access;
- Alternative 4- Convert Beaver Street to One-way SB & Realign; and
- Alternative 5 - Close Beaver Street at Alice Street.

### Future Conditions

The intersection and mid-block operations were reviewed for the 2030 horizon with traffic volumes established from historic and projected growth for the area. An operations assessment was completed for each improvement, with traffic volumes redistributed through the network to reflect the impact of the various improvements on traffic patterns in the study area. The results of the operational assessment indicate that the road network will continue to provide excellent operations regardless of the alternative solution considered in the assessment. As such, intersection and mid-block operations will not dictate the selection of a preferred alternative solution



### Recommended Solution

The alternative solutions were ranked based on the advantages and disadvantages of each alternative and the degree to which they addressed the overall concerns of the road network. As a result of the assessment, the following was identified as the preferred improvement solution given that it best addresses safety concerns at the intersections of Beaver Street with Victoria Street and Louisa Street:

- Alternative 2 - Close Beaver Street from Victoria Street to Louisa Street

As an interim solution, in the event that Alternative 2 is not immediately feasible, the following should be considered:

- Alternative 3 - Close Beaver Street from Victoria Street to Foodland Access.

