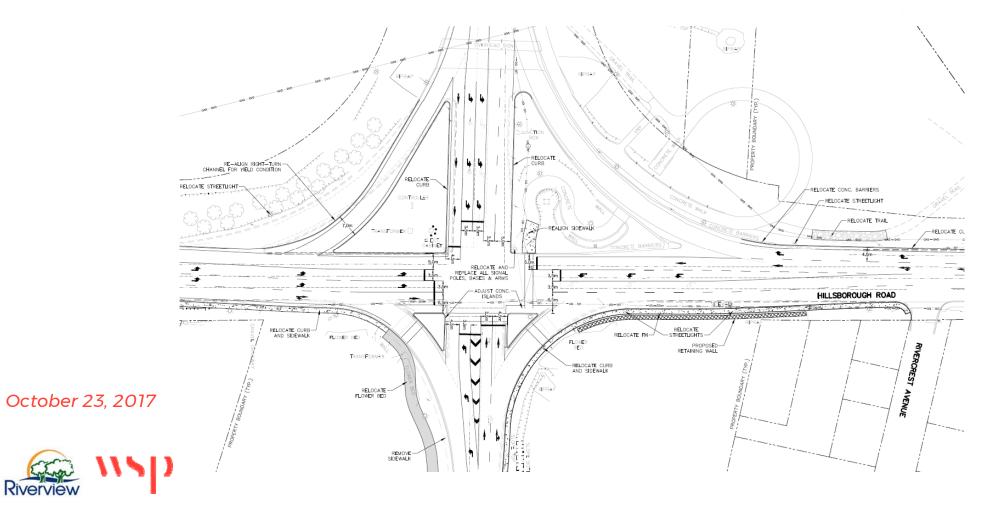
GUNNINGSVILLE ROAD INTERSECTION REVIEW



Background

Study Objectives

Existing Operations

Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary

Presentation Overview

- Background
- Study Objectives
- Existing Operations
- Improvements to Signalized Intersection
- Sketches
- Consideration of Future Bridgedale Boulevard
- Summary



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Study Objectives

Existing Operations

Improvements to Signalized Intersection

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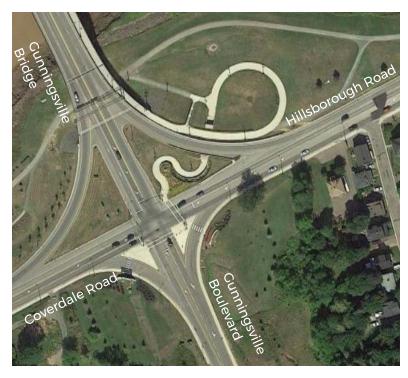
Consideration of Future Bridgedale Boulevard

Summary



Background

- WSP was hired to complete an intersection review of Gunningsville Boulevard with Coverdale Road/Hillsborough Road intersection.
- North approach of the intersection (Gunningsville Bridge) serves as one of two links across the Petitcodiac River to Moncton and Dieppe.
- The intersection experiences long delays and queues that approach or exceed capacity.
- The Town is planning modifications to the intersection to improve the operations and accommodate future growth in the network.



Background

Study Objectives

Existing Operations

Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary

Study Objectives

- Reviewed existing traffic conditions at the intersection and identified major operational issues.
- Projected design hourly traffic volumes based on anticipated growth in the area and identified major operational issues.
- Identified intersection modification options to improve the intersection.
- Developed conceptual design drawings and high-level cost estimates for each option.
- Predicted changes to traffic patterns that will occur with the planned construction of Bridgedale Boulevard



Background

Study Objectives

Existing Operations

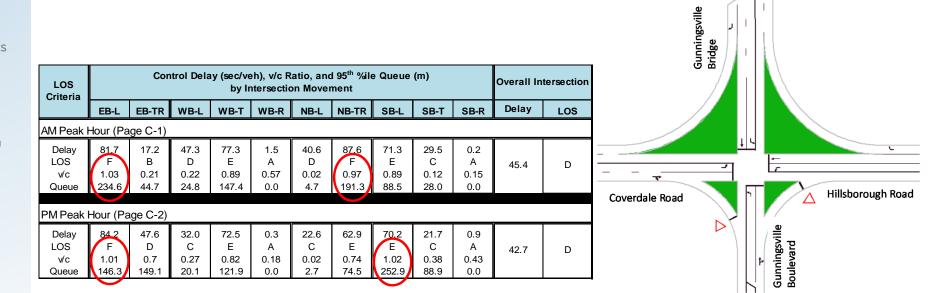
Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary

Existing Operations





Background

Study Objectives

Existing Operations

Improvements to Signalized Intersection

Sketches

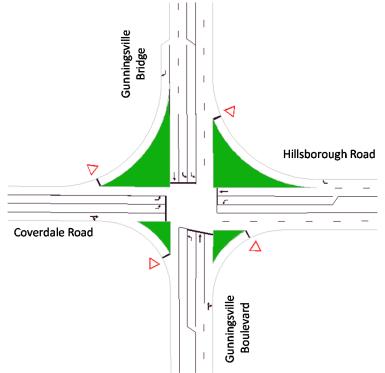
Consideration of Future Bridgedale Boulevard

Summary



Improvements to Signalized Intersection

- Improvements required:
 - Install a second left turn lane for the EB (Coverdale Road) approach;
 - Install a second receiving lane north of the intersection (to the bridge);
 - Remove right-turn receiving lane west of the intersection and convert right turn movements from the bridge to Coverdale Road to yield control;
 - Install a second NB through lane and convert the right turn movement from Hillsborough Road to the bridge to yield control;
 - Install a second left turn lane for the SB approach;
 - Install a second receiving lane east of the intersection (Hillsborough Road); and,
 - Modify the signal timings to accommodate the new configuration.



Background

Study Objectives

Existing Operations

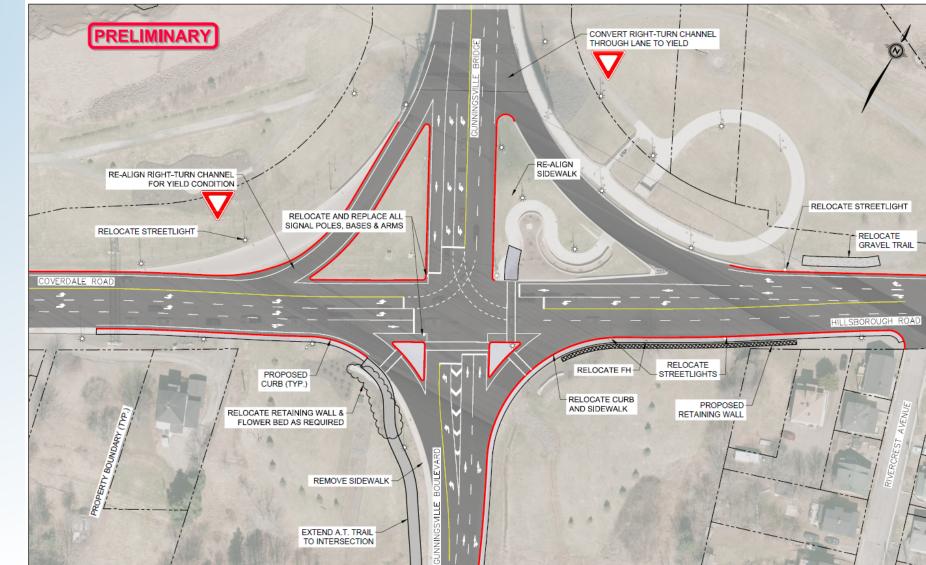
Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary





Background

Study Objectives

Existing Operations

Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary



Consideration of Future Bridgedale Boulevard

- A new east-west roadway to alleviate the traffic on Hillsborough Road.
- Traffic will be redistributed and access the bridge via Bridgedale Boulevard.
- Potential alignments and connections are shown in red.
- Potential connections to Hillsborough are shown in yellow and blue.



Background

Study Objectives

Existing Operations

Improvements to Signalized Intersection

Sketches

Consideration of Future Bridgedale Boulevard

Summary

Summary

- The existing intersection experiences large delays and long queues.
- Two options were considered:
 - Option 1: Improvements to Signalized Intersection
 - Option 2: Multi-lane Roundabout
- Projected design volumes used in the Level of Service analysis shows operational improvements at the intersection.
- The addition of the Bridgedale Boulevard connection will improve the operations at the intersection, due to the traffic pattern changes to currently lower volume movements.
- Design currently underway with planned construction in 2018.



Thank you!

