

# ALTERNATIVES EVALUATION PROCESS

## WHAT KIND OF IMPROVEMENTS WERE CONSIDERED?

- Modifying **alignment of Batavia Lane** to improve visibility
- Addressing **access concerns** at Kelly Rae's and Smith Valley School
- Providing a **safer pedestrian crossing**
- Installing a traffic signal or roundabout to **improve traffic flow**
- **Rerouting Batavia Lane** south of Smith Valley School



## HOW WERE ALTERNATIVES EVALUATED?

The alternatives were evaluated using the six screening criteria listed below. The use of screening criteria serves as a way to assess how each alternative addresses the needs of the intersection. Using this screening process, the project team narrowed the options to four alternatives that best met the desired criteria for the intersection. These options are shown on the other side of this handout. Public input, as well as traffic, safety, and impact analyses, will inform the selection of the best alternative for the intersection.

### Vehicular Operations



- Improve intersection **operations**
- Reduce vehicle **delay**
- Accommodate the needs of **large trucks/trailers**

### Vehicular Safety



- Improve **visibility** and sight distance
- Reduce vehicle **conflict** areas
- Address historic **crash trends**

### Non-Motorized Users



- Increase **visibility** of crosswalk
- Improve **crosswalk** function and convenience
- Improve non-motorist **safety**

### Impacts



- Minimize impacts to the **environment**
- Minimize impacts to **adjacent land uses**
- Minimize **construction** impacts

### Access and Circulation



- Provide reasonable access to **Kelly Rae's**
- Provide reasonable access to **Smith Valley School**
- Provide reasonable access to **public and private approaches**

### Funding



- Good use of **taxpayer dollars**
- Balance improvements' **benefits and cost**
- Funding timeframe/**funding** availability

# WHICH ALTERNATIVES HAVE BEEN ADVANCED FOR FURTHER CONSIDERATION?



## STOP SIGN - MAJOR RECONSTRUCTION & RAISED MEDIANS

### ADVANTAGES:

- Enhanced pedestrian crossing improves visibility and safety
- Major realignment of Batavia Lane increases visibility for initiating turns
- Raised medians help to slow vehicles and reduce vehicle conflicts
- Least expensive option

### DISADVANTAGES:

- Does not reduce delay on Batavia Lane
- Raised medians restrict some turning movements
- Minor impacts due to closed or relocated approaches



## TRAFFIC SIGNAL - MAJOR RECONSTRUCTION

### ADVANTAGES:

- Improves traffic operations and reduces vehicle delay
- Provides better truck accommodations
- Pedestrian crossing phase provides better protection for non-motorists
- Improves intersection alignment and visibility

### DISADVANTAGES:

- Increases delay during off peak hours
- Potential for more severe crashes due to red light running
- Less control of vehicles turning from adjacent approaches
- More expensive than stop control but with improved traffic conditions



## TRAFFIC SIGNAL - MAJOR RECONSTRUCTION & RAISED MEDIANS

### ADVANTAGES:

- Improves traffic operations and reduces vehicle delay
- Pedestrian crossing phase provides better protection for non-motorists
- Raised medians and signal help to slow vehicles
- Reduces vehicle conflicts from approaches
- Improves intersection alignment and visibility

### DISADVANTAGES:

- Increases delay during off peak hours
- Potential for more severe crashes due to red light running
- Raised medians restrict some turning movements
- Most expensive signal option but with additional safety benefits



## SINGLE LANE ROUNDABOUT

### ADVANTAGES:

- Improves traffic operations and reduces vehicle delay
- Forces vehicles to slow down
- Proven to reduce crash severity due to slower speeds and reduced conflicts
- Pedestrians only cross one lane at a time
- Can safely make all turning movements, including u-turns

### DISADVANTAGES:

- Less desirable for large trucks/trailers to navigate, although would be sized appropriately
- May be less comfortable for some pedestrians
- Most expensive option but with greatest safety benefits

## FOR MORE INFORMATION OR TO SUBMIT FEEDBACK



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