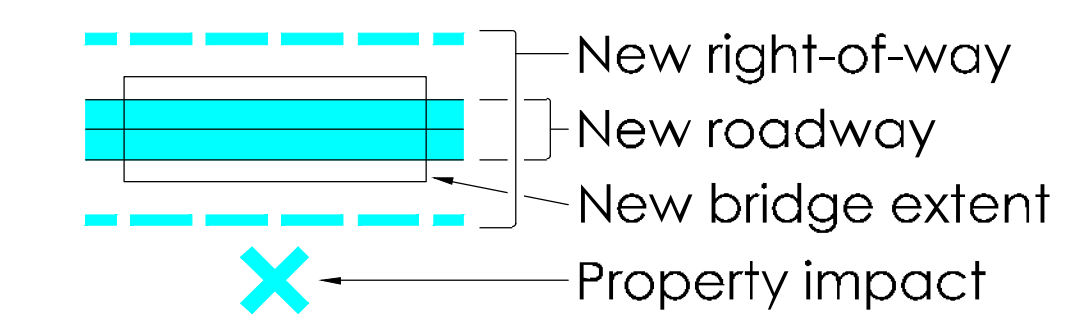


Alternative 6a



Fixed bridge



Engineering

- + The new bridge accommodates two lanes of traffic, which will improve traffic operations
- + A fixed (high level) bridge will provide free-flow traffic and will eliminate traffic delays
- + Improves the horizontal alignment and design speed
- Requires steeper approach grades when compared to a movable bridge
- + The new bridge accommodates pedestrian and cycling facilities
- The roadway profile provides relatively steep grades for pedestrians and cyclists
- Requires local road realignments and connections
- + The structure type (slab on girder) is common in Ontario and requires relatively standard construction techniques
- + Does not impact fiber optic facilities
- + Does not impact hydro facilities
- Impacts entrance to water treatment facility
- Higher construction cost when compared to the movable bridge alternatives
- + No operating costs
- + Maintenance (snow plowing) costs are similar to other bridges in Ontario

Environment

- Larger footprint when compared to movable bridge alternatives, and higher potential for impacts to terrestrial ecosystems, potential species of conservation concern, environmentally sensitive areas

Community

- Impacts 1 existing residential dwelling
- Requires acquisition of approximately 8 ha of vacant land
- + A fixed (high level) bridge will provide free-flow traffic and will improve emergency response and evacuation access
- + No impacts to existing walking trails and open space
- Minor change to access to Little Current business areas
- + No Impacts to contaminated lands on Goat Island
- + Provides an opportunity to retain the existing bridge for new use