March 10, 2014

Jason Reid
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Attention: Jason Reid

Subject: Proposed Entrance,
College Street East
City of Belleville

In regard to the above matter, the intent is to construct an entrance that is restricted to right turns only.

The purpose of this letter report is review the design options and recommend the best choice.

There are three options for the construction of an access that will be operated with vehicle turning movements restricted to right turn in and right turn out:

- Option 1.0 - Construct a triangular island in the middle of the property access to physically channelize the right in and right out movement;
- Option 2.0 - Construct a raised median in the roadway with a standard property access to physically restrict the left turn in and left turn out movement; and
- Option 3.0 - Construct a triangular island in the middle of the property access and a raised median in the roadway.

The choice boils down to the "degree of effectiveness" and the physical/operational impacts of the roadway.

In Option 1.0 the compliance is left up to the user. In most designs it is still possible to make the left turn movements. In terms of safety, the impact
depends on the roadway posted speed, volume and the likelihood of frequent non-compliance.

In Option 2.0 compliance is greater because the centre median physically eliminates the left turn movements. At the end of the median island a "NO U-Turn Sign" should be installed. This Option is more effective the greater the length of the centre raised median.

In Option 3.0 compliance is the highest because it really makes all left turns physically difficult. It is desirable when the property entrance is near the end of the centre raised median. At the end of the median island a "NO U-Turn Sign" should be installed.

In an urban setting with curbs on the edges of pavement, the roadway pavement must be wide enough to maintain a minimum width of 5.0 meters for the one-way flow between the median and edge of pavement.

RECOMMENDATIONS:

1. Construct a raised median in the roadway and a triangular island in the middle of the proposed property access.

2. Install a "No U-Turn Sign" on the back of the raised median sign at the end of the median.