

## **COMMITTEE OF THE WHOLE - DECEMBER 1, 2008**

### **VELLORE WOODS BOULEVARD AND COMDEL BOULEVARD TRAFFIC REVIEW**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

1. That subject to approval of the 2009 Capital Budget funding for traffic calming, the installation of raised centre medians at the intersection of Vellore Woods Boulevard and Comdel Boulevard be approved;
2. That Engineering Services staff notify the Vellore Woods Boulevard Neighbourhood Traffic Committee of the proposal;
3. That Engineering Services staff contact York Regional Police to request enforcement of the existing 50 km/h speed limit on Vellore Woods Boulevard and Comdel Boulevard; and
4. That Engineering Services staff contact York Regional Police to request enforcement of the existing stop controls at the intersection of Vellore Woods Boulevard and Comdel Boulevard.

#### **Economic Impact**

None.

#### **Communications Plan**

The Engineering Services Staff will contact the residents with the information in the report on the options presented.

#### **Purpose**

To present additional information to the Committee of the Whole, as stated in a previous report dated June 23, 2008 and to review the traffic activity on Vellore Woods Boulevard and Comdel Boulevard.

#### **Background - Analysis and Options**

At it's meeting on June 23, 2008, Council directed:

- “1. That Engineering Services Staff be requested to investigate the feasibility of traffic calming measures at Vellore Woods Boulevard and Comdel Boulevard; and**
- 2. That the cost would be determined at a later date pending on the type of possible measure proposed.”**

Vellore Woods Boulevard and Comdel Boulevard both are minor collector roadways with a 23.0 metre right-of-way and 9.75 metre pavement travel width. Comdel Boulevard runs east-west from Weston Road to Vellore Woods Boulevard. The existing speed limit on Comdel Boulevard is 50 km/h. Vellore Woods Boulevard runs north-south from Major Mackenzie Drive to Rutherford Road. The existing posed speed limit on Vellore Woods Boulevard is 40 km/h. St. Emily Catholic School is located on the north/west corner of the intersection of Vellore Woods Boulevard and Comdel Boulevard. This intersection is controlled by an all-way stop. The area is shown on Attachment No.1.

### Speed and Volume Study

Staff conducted speed and volume studies on Vellore Woods Boulevard and Comdel Boulevard from September 15, 2008 to September 19, 2008. The results have been summarized below.

#### **Comdel Boulevard**

Direction	Average Speed	85 <sup>th</sup> Percentile Speed	Highest Speed	Daily Traffic
Eastbound	40 km/h	48 km/h	66 km/h	702
Westbound	39 km/h	46 km/h	69 km/h	730

#### **Vellore Woods Boulevard**

Direction	Average Speed	85 <sup>th</sup> Percentile Speed	Highest Speed	Daily Traffic
Northbound	40 km/h	47 km/h	68 km/h	2652
Southbound	38 km/h	44 km/h	68 km/h	2609

The recorded average speeds on Comdel Boulevard range between 39 km/h 40 km/h. The recorded 85<sup>th</sup> percentile speeds (the speed at which 85 percent of the vehicles are travelling at or below) range between 46 km/h – 48 km/h. The recorded average speed on Vellore Woods Boulevard range between 38 km/h – 40 km/h. The 85<sup>th</sup> percentile speed (the speed at which 85 percent of the vehicles are travelling at or below) range between 44 km/h – 47 km/h. It was noted that several speeds were in excess of the 50 km/h speed limit specifically, during the afternoon time from 12:00 pm – 1:00 pm and evening time from 5:00 pm – 9:00 pm. Staff will notify York Regional Police for their action deemed necessary.

Comdel Boulevard and Vellore Woods Boulevard function as minor collector roadways and are identified as a primary emergency response route. In accordance with the Council's Approved (June 25, 2007) Neighbourhood Traffic Committee Policy and Procedure, all vertical measures (speed humps, raised intersections, etc) are to be discontinued on primary emergency response route, feeder, collector and arterial roadways.

Staff have investigated and determined that other possible traffic calming measures such as curb bumps-out, centre medians (raised or mountable) and painted road narrowings can be installed on both Comdel Boulevard and Vellore Woods Boulevard near the intersection.

### Stop Sign Compliance Study

Staff completed a Stop Sign Compliance Study at the intersection of Vellore Woods Boulevard and Comdel Boulevard on Wednesday, September 24, 2008 from 8:00 Am – 9:00 Am and 4:00 Pm – 5:00 Pm. The results have been summarized below:

Intersection	% of Drivers Stopping	
	Full Stop	Rolling or No Stop
Vellore Woods Boulevard and Comdel Boulevard	50 %	50 %

Based on the results of the study, Staff recommends an over-sized "STOP" sign to replace the existing regular (60cm x 60cm) sized "STOP" sign on all three (3) approaches at the above mentioned intersection to more clearly indicate that this is an all-way stop intersection to all motorists. In the meantime, staff will send correspondences to York Regional Police for increased stop sign enforcement at the intersection due to the high percentages of non stopping/rolling stop drivers.

### General Observation Study

Staff conducted a General Observation Study at the intersection of Vellore Woods Boulevard and Comdel Boulevard on October 8, 2008, during the peak hour from 8:00 - 9:00 a.m. and 3:00 - 4:00 p.m., the weather was sunny and the road was dry. There were only 8 unassisted primary students crossing Vellore Woods Boulevard and there were 6 unassisted primary students crossing Comdel Boulevard. During the study, there were no vehicle/pedestrian conflicts noted.

### Traffic Calming Options

Staff investigated and determined that raised centre medians can be installed on all three (3) approaches at the intersection of Vellore Woods Boulevard and Comdel Boulevard. The total cost for this proposal \$20,000. The medians will have an impressed colour concrete on the top. The medians will not have any landscaping for safety reasons for the City's Park Crews due to the intersection accommodating high traffic volumes.

A request has been submitted through the 2009 Budget process for funding for various traffic calming projects across the City. Sufficient funds were requested to accommodate the construction of the centre medians proposed in this report.

### Relationship to Vaughan Vision 2020

Enhance and Ensure Community Safety, Health & Wellness – To advocate for, protect and enhance community safety, health and wellness through education, design and enforcement. Reference specific initiative report relates to:

This report is consistent with the priorities previously set by Council.

### Regional Implications

Not Applicable.

### Conclusion

Based on staff's review, it is recommended the raised centre medians with impressed colour concrete be installed on all approaches at the intersection of Vellore Woods Boulevard and Comdel Boulevard. The cost estimated at \$20,000.

### Attachments

1. Location Map

Report prepared by:

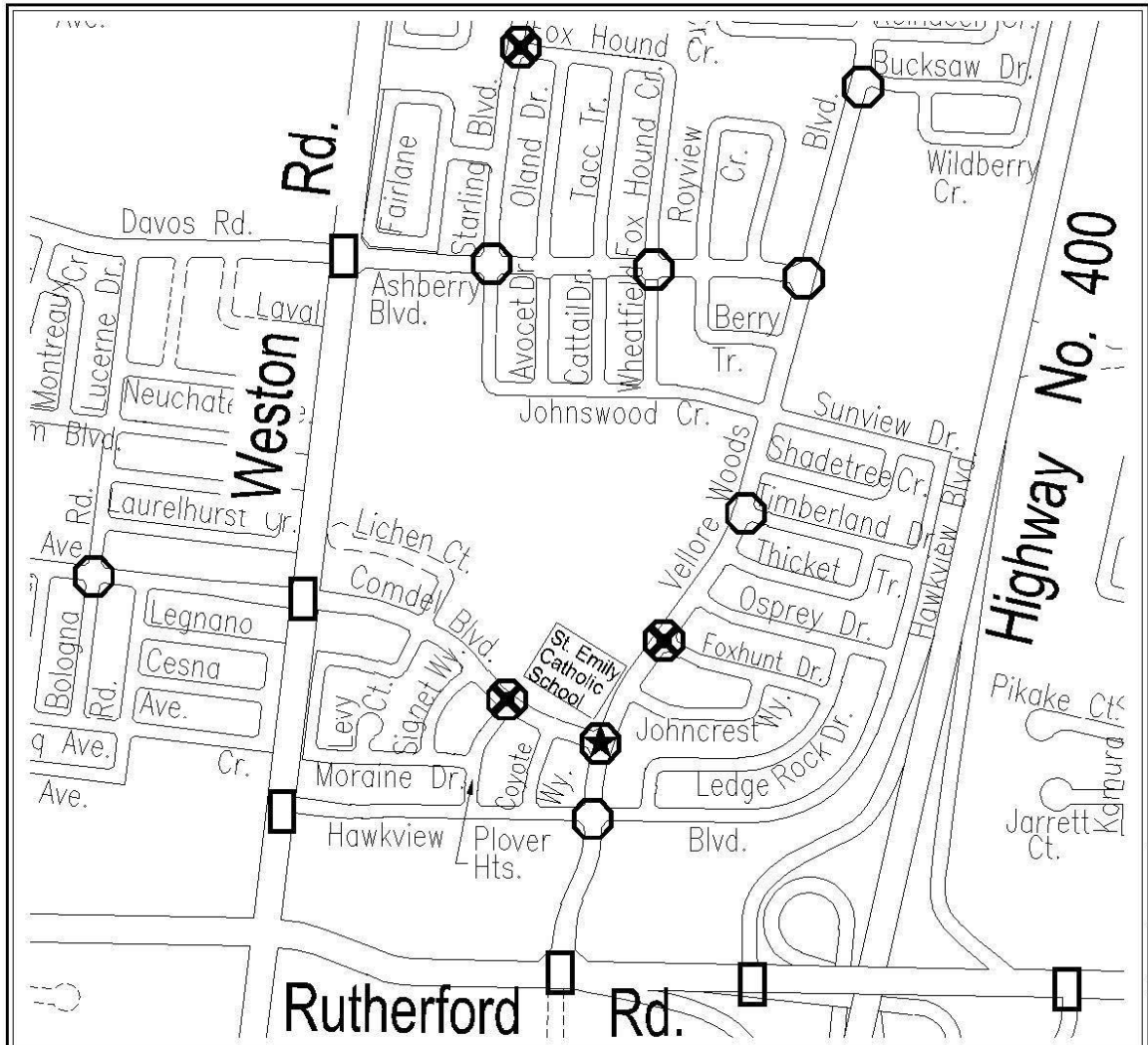
Peter Trinh, Senior Traffic Technologist, Ext 3120  
Mike Dokman, Supervisor, Traffic Engineering, Ext. 3118

Respectfully submitted,

Bill Robinson, P. Eng.  
Commissioner of Engineering and Public Works





Mike Dokman, C.E.T.  
Supervisor, Traffic Engineering

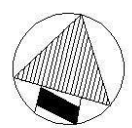
# ATTACHMENT No. 1



## VELLORE WOODS BLVD. & COMDEL BLVD. TRAFFIC REVIEW

### LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL
-  EXISTING SUPERVISED SCHOOL CROSSING



NOT TO SCALE

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