



memorandum

DATE: February 19, 2013

TO: Mayor and Members of Council

RE: **COUNCIL MEETING – FEBRUARY 19, 2013**
REPORT 5, ITEM 16
ALL-WAY STOP CONTROL AT
ILAN RAMON BOULEVARD AND SOUTHALE DRIVE
WARD 4

C	<u>6</u>
Item #	<u>16</u>
Report No.	<u>5 (CW)</u>
<u>Council - February 19/13</u>	

The following is provided as additional information for Council in its consideration of this matter.

Ilan Ramon Boulevard is an unassumed minor collector roadway with a 23 metre right-of-way and an 11.5 metre pavement width. It is identified as a primary emergency response route. Southvale Drive is an unassumed local roadway with a 17.5 metre right-of-way and a pavement width of 8.0 metres. The intersection of Ilan Ramon Boulevard and Southvale Drive is a tee-intersection with stop control on Southvale Drive. Both roadways have a statutory speed limit of 50 km/h. (see Attachment No.1)

All-way Stop Study

Engineering Services staff completed an all-way stop study on November 1, 2011, from 7:00 a.m. to 9:00 a.m. and from 3:00 p.m. to 6:00 p.m. The data collected was compared to the Provincial Warrant for All-way Stop Control, and the warrant value was only 48% satisfied.

Warrant 1 – Minimum Vehicular Volumes	Warranted	48%
Warrant 2 – Accident Hazard	Warranted	0%
Warrant 3 – Sight Restriction	Warranted	0%

Based on the road network configuration, staff do not believe that the Provincial Warrant for All-way Stop Control will be met at this intersection in the near future.

Speed and Volume Analysis

Automatic Traffic Recorders (ATRs) were installed on Ilan Ramon Boulevard near Southvale Drive to obtain volume and speed data in 2011 and 2012. The study results indicate that the average speeds on Ilan Ramon Boulevard (near Southvale Drive) range from 38-47 km/h, which is within the unposted speed limit of 50 km/h.

According to the Geometric Design Guide for Canadian Roads, a collector roadway can accommodate up to 8000 vehicles/day. The average daily traffic volume on Ilan Roman Boulevard ranges from 3,515 - 6,223 vehicles/day, which is within the capacity of a collector roadway.

Site Inspection

On December 13, 2012, staff conducted An on-site visual inspection of the intersection. There is both an elevation change and horizontal alignment change on Ilan Ramon Boulevard, north of Gesher Crescent/Timna Crescent. Trees have been planted on the east side of Ilan Ramon Boulevard, that in addition to the characteristics of the roadway, may impact sightlines for both drivers and pedestrians exiting Southvale Drive.

The intersection of Ilan Ramon Boulevard and Southvale Drive is in proximity of public spaces including Southvale storm water management pond, a future York Region District School Board site and the future Pioneer Park site.

Attachments

1. Location Map

A handwritten signature in black ink, appearing to read 'J. Graziosi', with a stylized, cursive script.

Jack Graziosi.
Director of Engineering Services

Copy:

Clayton D. Harris, City Manager
Paul Jankowski, Commissioner of Engineering & Public Works

ATTACHMENT No. 1



ALL-WAY STOP CONTROL REVIEW ILAN RAMON AND SOUTHVALE DRIVE BOULEVARD

LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNAL
-  EXISTING ALL-WAY STOP

Note: Aerial Photography Taken in Spring, 2011



NOT TO SCALE