

Traffic Committee AGENDA

NINTH MEETING OF THE TRAFFIC COMMITTEE TO BE HELD ON AUGUST 26, 2009 AT 4:00 P.M. IN COMMITTEE ROOM C-11, TOM DAVIES SQUARE

DECLARATION OF PECUNIARY INTEREST AND THE GENERAL NATURE THEREOF

REFERRED & DEFERRED ITEMS

R-1. Report dated April 29, 2009 from the General Manager of Infrastructure Services regarding All-Way Stops, Various Locations.

1 - 38
(RECOMMENDATION PREPARED)

(The report recommends All-Way Stop requests at the intersections of Woodbine Avenue and Agincourt Avenue and Lamothe Street and Lincoln Road be denied.)

R-2. Report dated July 28, 2009 from the General Manager of Infrastructure Services regarding One-way Street Designation - William Street, Garson. 39 - 44 (RECOMMENDATION PREPARED)

(The report recommends William Street be designated as a "One-Way" street for southbound traffic between Birch Street and Falconbridge Road.)

MANAGERS' REPORTS

PAGE NO.

R-3 Report dated July 22, 2009 from the General Manager of Infrastructure Services regarding Traffic Control - Toya Court, Hanmer. 45 - 47 (RECOMMENDATION PREPARED)

(The report recommends a yield sign at the intersection of Toya Court and Lee Street, Hanmer.)

R-4 Report dated July 22, 2009 from the General Manager of Infrastructure Services regarding School Zone Speed Limit - Junction Avenue and Laurin Street, Azilda. **48 - 51** (RECOMMENDATION PREPARED)

(The report recommends the speed limit on Junction Avenue from Charlebois Street to St. Jean Street and Laurin Street from Charlebois Street to 12 metres south of Notre Dame be reduced to 40 km/h due to the presence of École publique Franco-Nord.)

MANAGERS' REPORTS (CONT'D)

PAGE NO.

R-5 Report dated July 22, 2009 from the General Manager of Infrastructure Services regarding Parking Restrictions - Woodbine Avenue, Sudbury. 52 - 54 (RECOMMENDATION PREPARED)

(The report recommends parking be prohibited on the north side of Woodbine Avenue from Agincourt Avenue to 120 metres east of Agincourt Avenue.)

R-6 Report dated July 22, 2009 from the General Manager of Infrastructure Services regarding New Traffic Signal Installations. 55 - 59 (RECOMMENDATION PREPARED)

(The report recommends new traffic signals on Ste. Anne Road; Long Lake Road and Gateway Avenue; and Barrydowne Road and Marcus Drive.)

NEXT MEETING DATE

<u>ADJOURNMENT</u> (RECOMMENDATION PREPARED)

COMMITTEE MEMBERS

Councillor Cimino Councillor Landry-Altmann Councillor Rivest

DISTRIBUTION

Mayor and Members of Council R. Swiddle
D. Nadorozny R. Falcioni
T. Beadman D. Kivi
G. Clausen D. Shelsted
M. Leduc A. Haché
C. Hallsworth L. Oldridge

L. Hayes

C. Matheson

B. Lautenbach

P. Thomson

LISA OLDRIDGE DEPUTY CITY CLERK

LIZ COLLIN
PLANNING COMMITTEE SECRETARY

TRAFFIC COMMITTEE (9th) (2009-08-26)

-11-

Request for Recommendation Traffic Committee



Type of Dec	ision								
Meeting Date	May 6, 200)9			Report Date	Apr	il 29, 200	9	
Recommendati	on	Yes	х	No	Priority	x	High		Low
		Direction	Only		Type of Meeting	х	Open		Closed

Report Title

All-Way Stops - Various Locations

Policy Implications + Budget Impact	ĺ	Recommendation
This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified		
		That All-Way Stop Control not be installed at the following intersections: 1) Lamothe Street at Lincoln Road 2) Woodbine Avenue at Agincourt Avenue all in accordance with the report from the General Manager of Infrastructure Services, dated April 29, 2009.
Background attached		Recommendation attached
	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Recommended by the Department Head

Blelaman

Greg Clausen, P. Eng.

General Manager of Infrastructure Services

Recommended by the C.A.O.

Doug Nadordzny Acting Chief Administrative Officer

Page: 1

Title: All Way Stop Control - Various Locations

Date: April 29, 2009

Report Authored By

Dave Kivi, Coordinator of Transportation and Traffic Engineering Services

Robert M. Falcioni, P. Eng

Director of Roads and Transportation

Division Review

Background:

At the Traffic Committee meeting held on February 12, 2009, the report dated January 30, 2009 from the General Manager of Infrastructure Services titled All-Way Stop Control - Various Locations was reviewed (see Exhibit "A"). At the request of Councillor Landry-Altmann, decisions regarding the intersections of Woodbine Avenue and Agincourt Avenue and Lamothe Street at Lincoln Road were deferred.

This report will provide an update and recommendation on the intersections that were deferred.

Lamothe Street at Lincoln Road

In 2008 there was one (1) collision reported at this intersection. Therefore, over the four (4) year period reviewed, there was a total on one (1) collision. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.

Woodbine Avenue at Agincourt Avenue

A review of the City's collision information for 2008 revealed there were no collisions at the intersection of Woodbine Avenue at Agincourt Avenue. Therefore, over the four (4) year period reviewed, there was a total of one (1) collision. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.

Request for Recommendation Traffic Committee



Type of Dec	sion	5	3.5 %	i i di	500	开始的证券	The state of	1	* * * * * * * * * * * * * * * * * * *	
Meeting Date	February 1	2, 200	9			Report Date	Jan	uary 30, 2	009	E a street in
Recommendatio	n		Yes	X	No	Priority	x	High	Low	
		Dire	Yes Y No Octob	Open	Closed					

Report Title

All-Way Stops - Various Locations

Policy Implications + Budget Impact	
is report and recommendation(s) have been reviewed the Finance Division, and the funding source has been identified	

Recommendation

That All-Way Stop Control not be installed at the following intersections:

- 1) Woodbine Avenue at Agincourt Avenue
- 2) Lamothe Street at Lincoln Road
- 3) Montee Rouleau Street and Laurent Street
- 4) Lansing Avenue at Melbourne Place
- 5) Lamothe Street at Prestige Place

all in accordance with the report from the General Manager of Infrastructure Services, dated January 30, 2009.

X Background attached

Recommendation attached

2	(ecommended		in De	narfin.	-	-
						-
		-				

Greg Clausen, P. Eng.

General Manager of Infrastructure Services

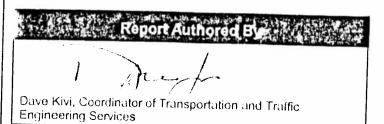
Recommended by the GAO.

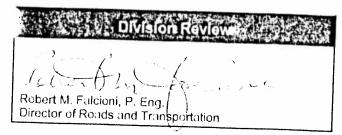
Doug Nadorożny Acting Chief Administrative Officer

Page: 1

Title: All Way Stop Control - Various Locations

Date: January 30, 2009





Background:

On September 23, 2008, the Traffic Committee reviewed the report dated September 23, 2008 from the General Manager of Infrastructure Services regarding All-Way Stop Control - Various Intersections (see Exhibit "A"). The Traffic Committee recommended deferment of a number of intersections for various reasons outlined in the Deputy City Clerk's correspondence dated October 30, 2008 (see Exhibit "B").

This report will provide an update and recommendation on the intersections that were deferred.

New Collision Information

The Greater Sudbury Police Services (GSPS) was contacted to obtain more recent collision information at all twenty (20) intersections that were analysed for All-Way Stop Control using the new criteria approved by City Council. The GSPS was able to provide updated collision information from October 2007 to October 2008 that revealed a total of three (3) collisions occurred at all twenty (20) intersections combined. Two (2) of the three (3) collisions occurred at the intersection of Roy Avenue and Lamothe Street, and the third collision occurred at the intersection of Lamothe Street and Lincoln Road.

Roy Avenue and Lamothe Street

Based on the new collision information, the intersection of Roy Avenue and Lamothe Street has experienced a total of three (3) collisions during a four (4) year period. For a minor collector roadway, the new warrant for All-Way Stop Control requires a minimum of three (3) collisions per year over a three (3) year period for a total of at least nine (9) collisions. Therefore, an All-Way Stop in not warranted.

It is difficult to tell if the two (2) recent collisions are a result of a change in traffic patterns, or just isolated incidents. However, Council has recently approved the reduction of the speed limit on Roy Avenue from Lasalle Boulevard to Leon Avenue to 40 hm/h, which should reduce operating speeds. The Traffic Committee has also recommended that Roy Avenue be reviewed under the Traffic Calming Policy. In addition to these measures, Staff can monitor the collisions at this intersection to ensure that a pattern of collisions that can be corrected does not continue.

Lamothe Street and Lincoln Road

Based on the new collision information, the intersection of Lamothe Street and Lincoln Road has had one (1) collision over a four (4) year period. While all collisions are undesirable, the collision experienced would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop.

Title: All Way Stop Control - Various Locations

Date: January 30, 2009

Page: 2

Background Continued:

Traffic Calming Policy

At the meeting held on January 28, 2009, City Council approved the Traffic Calming Policy on a trial basis. The following intersections were deferred by the Traffic Committee on September 23, 2009 to be reviewed under the Traffic Calming Policy:

- 1) Dell Street at Bruce Avenue
- 2) Lillian Boulevard at Holland Road
- 3) Algonquin Road at Tuscany Trail/Trailridge Drive
- 4) Roy Avenue at Lamothe Street

Traffic Calming is reviewed on a road segment basis as opposed to a single intersection. Therefore, it is recommended that Dell Street, Lillian Boulevard, Algonquin Road and Roy Avenue be analysed and ranked as per the approved Traffic Calming Policy. Staff will report on the results of these locations and others requested by the end of 2009.

Request for Recommendation Traffic Committee



Type of Deci	sion					41.1		2 4	THE PARTY	M. A.	決切の事件	Sheer Villa
	Septembe						Report Date		otember 2	23. 20	na na	200
Recommendatio	n ————————————————————————————————————	Ye		X	No		Priority	x	High		Low	
		Direction	n On	ly			Type of Meeting	x	Open		Closed	

Report Title

All-Way Stop Control - Various Intersections

	Policy Implica	tions + E	Judget	Impact
--	----------------	-----------	--------	--------

This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified

Recommendation

That the Leslie Street and Mont Adam Street intersection be controlled by an All-Way Stop, and that;

A by-law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to implement the recommended change all in accordance with the report from the General Manager of Infrastructure Services dated September 23, 2008.

Background attached

Χ

Recommendation attached

Recommended by the C.A.O.

Recommended by the Department Head

Belaum

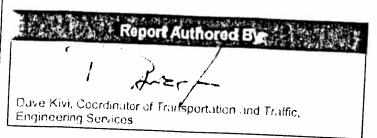
Dag Chiusan, P. Eng. Dagasa Maraka a fisifa da marakapa ya

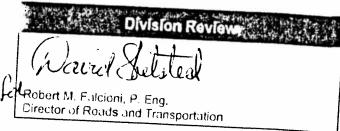
MakMich

Page: 1

Fitle: All-Way Stop Control - Various Intersections

Date: September 23, 2008





Introduction:

On May 7, 2008, the Traffic Committee approved a new modified warrant for determining the need for All-Way Stops. A copy of the Staff report can be found in Exhibit "A". The modified warrant significantly reduces the minimum vehicle and pedestrian volume thresholds for minor collector roads and local roads. Collision frequency requirements have also been reduced for these roadway classifications.

The new All-Way Stop Policy also states that "Only those intersections that satisfy the requirements for All-Way Stop control will be brought forward to the Traffic Committee for consideration". However, to deal with the numerous requests originating prior to the policy, and to see the effect of the new warrant, it was agreed that both warranted and unwarranted intersections would be brought back to the Traffic Committee.

The City's Transportation and Traffic Engineering Services Section has conducted an All-Way Stop review of 20 intersections throughout the City of Greater Sudbury that includes the three (3) classifications of roadways being arterial/major collectors, minor collectors and local roads. The following report will provide a brief description of each intersection and how the traffic volumes and collision information compare to the minimum warrants for All-Way Stop control. A summary of all the intersections reviewed can be found on the table in new warrant and the old warrant.

Purpose of All-Way Stops:

The purpose of an All-Way Stop is to alternate the right-of-way at an intersection. They can be an effective traffic control device when installed at busy intersections with similar traffic volumes and characteristics. However, All-Way Stops disrupt the flow of traffic and introduce delay to all drivers passing through the intersection. Therefore, they should only be installed when warranted.

Often time, All-Way Stops are requested by residents to slow traffic down on a roadway. Unfortunately, All-Way Stops are not effective as speed control devices. Studies have shown that speeds are only reduced in close proximity to the sign, and mid-block speeds actually increase after stop signs are installed as drivers attempt to make up for lost time. It is a common belief that All-Way Stops will increase safety at an intersection. Stop signs can reduce certain types of collisions such as right angle or turning types if they are prevalent at an intersection. However, the unwarranted installation of an All-Way Stop increases driver frustration, reduces compliance, and creates disrespect for stop signs. This behaviour can spread to other pedestrians and cyclists, especially young children, as they expect drivers to actually stop at the sign.

All-Way stops are relatively inexpensive to install, which is one reason they are requested so often. However, they can greatly increase fuel consumption, noise, and air pollution due to the constant braking and acceleration that occurs. It has been reported that additional gasoline consumed from one (1) stop sign on a typical collector road is 25 litres can day or 9.125 litres can year.

Fitle: All-Way Stop Control - Various Intersections

Date: September 23, 2008

Page: 2

The Ministry of Municipal Affairs and Housing indicates that a typical four-way stop generates the following emissions on a yearly basis:

657 kg of Hydro Carbons

- 8,760 kg of Carbon Monoxide
- 675 kg of Nitrogen Oxide
- 65,700 kg of Carbon Dioxide

Arterial/Major Collector Roadways:

1) Martindale Road at Copper Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Martindale Road and Copper Street

Martindale Road at Copper Street is a three legged intersection located three blocks south of Lorne Street (see Exhibit "C"). This intersection contains a sharp horizontal curve on Martindale Road and is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing eastbound traffic on Copper Street.

Applying the data from the turning movement count that was conducted on June 11, 2008 to the Minimum Volume Warrant indicates that the side street volume from Copper Street meets 78% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that one collision that would be susceptible to relief through an All-Way Stop occurred during this three year period. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Martindale Road and Copper Street. Should an All-Way Stop be installed at this intersection, staff recommends that the intersection be reconstructed to reduce Martindale Road to one lane of traffic in each direction. This will improve safety for pedestrians crossing Martindale Road.

2) Kelly Lake Road at Copper Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Kelly Lake Road and Copper Street.

Kelly Lake Road at Copper Street is a three legged intersection located approximately one kilometer south of the Lorne Street (see Exhibit "C"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing westbound traffic on Copper Street.

Fitle: Alf-Way Stop Control - Various Intersections

Date: September 23, 2008

Page: 3

2) Kelly Lake Road at Copper Street - (continued)

Applying the data from the turning movement count that was conducted on June 11, 2008 to the Minimum Volume Warrant indicates that the traffic split between Kelly Lake Road and Copper Street meets 50% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Kelly Lake Road and Copper Street.

3) Lansing Avenue at Melbourne Street

The City's Traffic and Transportation Engineering Services section received a petition from area residents to install an All-Way Stop at the intersection of Lansing Avenue at Melbourne Street.

Lansing Avenue at Melbourne Street is a four legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing westbound and eastbound traffic on Melbourne Street.

Applying the data from the turning movement count that was conducted on June 30, 2008 to the Minimum Volume Warrant indicates that the side street volume from Melbourne Street meets 25% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For an Arterial/Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lansing Avenue and Melbourne Street.

4) Kathleen Street at Bessie Avenue

The City's Traffic and Transportation Engineering Services section received a request from an area business owner to install an All-Way Stop at the intersection of Kathleen Street at Bessie Avenue.

Kathleen Street at Bessie Avenue is a four legged intersection located less than 200 metres east of Frood Road (see Exhibit "E"). The north and south legs of Bessie Avenue are offset where they intersect Kathleen Street. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Bessie Avenue.

Date: September 23, 2008

4) Kathleen Street at Bessie Avenue - (continued)

Applying the data from the turning movement count that was conducted on July 30, 2008 to the Minimum Volume Warrant indicates that this intersection meets 23% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For an Arterial, Major Collector roadway, the Collision Warrant requires a minimum of four collisions per year over a three year period.

Based on the traffic volumes, collision history, and the offset of Bessie Avenue, staff does not recommend installing an All-Way Stop at the intersection of Kathleen Street and Bessie Avenue.

Minor Collector Roadways:

5) Leslie Street at Mont Adam Street

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Leslie Street and Mont Adam Street due to safety concerns.

Leslie Street at Mont Adam Street is a three legged intersection located two blocks east of Notre Dame Avenue (see Exhibit "E"). Visibility on the northeast corner is restricted due to a Canada Post mailboxes installed in the sight triangle and parked vehicles along Leslie Street. Currently this intersection is controlled with a stop sign facing westbound traffic on Mont Adam Street.

Applying the data from the turning movement count that was conducted on July 4, 2007 to the Minimum Volume Warrant indicates that this intersection meets the new minimum volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the existing traffic volumes, staff recommends installing an All-Way Stop at the intersection of Leslie Street at Mont Adam Street.

6) Dell Street at Bruce Avenue

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altmann, to review the traffic control at the intersection of Dell Street and Bruce Avenue.

Fitte: All-Way Stop Control - Various Intersections

Date: September 23, 2008

6) Dell Street at Bruce Avenue - (continued)

Dell Street at Bruce Avenue is a four legged intersection located between Notre Dame Avenue and Frood Road (see Exhibit "E"). Queen Elizabeth Public School is situated on the northeast corner of this intersection. Visibility on the southwest corner is restricted due to a large fence that has been constructed in the sight triangle. This intersection is also part of a Greater Sudbury Transit route. An All-Way Stop is currently installed at the Dell Street and Melvin Avenue/Snowdown Avenue intersection which is less than 150 metres from the subject intersection. Currently this intersection is controlled with Stop signs facing northbound and southbound traffic on Bruce Avenue.

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant indicates that the side street volume from Bruce Avenue meets 79% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes, collision history, and the close proximity to the Dell Street and Melvin Street/Snowdown Avenue intersection, staff does not recommend installing an All-Way Stop at the intersection of Dell Street at Bruce Avenue. Staff has advised the By-Law department of the fence that was constructed in the sight triangle.

7) Lillian Boulevard at Holland Road

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altmann, to review the traffic control at the intersection of Lillian Boulevard and Holland Road.

Lillian Boulevard at Holland Road is a three legged intersection located two blocks west of Barry Downe Road (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a yield sign facing northbound traffic on Holland Road.

Applying the data from the turning movement count that was conducted on February 20, 2007 to the Minimum Volume Warrant indicates that the side street volume from Holland Road meets 71% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lillian Boulevard and Holland Road. While sight lines are good, staff has no objection to thanging the existing yield sign on Holland Road to a stop sign.

Fitle: All-Way Stop Control - Various Intersections

Date: September 23, 2008

8) Montee Rouleau at St. Laurent Street

The City's Traffic and Transportation Engineering Services section received a request from the Ward 4 Councillor, Evelyn Dutrisac, to review the traffic control at the intersection of Montee Rouleau and St. Laurent Street.

Montee Rouleau at St. Laurent Street is a four legged intersection located east of Municipal Road 15 (see Exhibit "F"). Visibility on the southwest corner is restricted due to a large tree that has grown in the sight triangle. Currently this intersection is controlled with stop signs facing eastbound and westbound traffic on St. Laurent Street.

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant indicates that the side street volume from St. Laurent Street meets 70% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were two collisions that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a 3 year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Montee Rouleau and St. Laurent Street. Staff noted that the total vehicle volume at this intersection has increased to 366 vehicles during the four peak hours in 2008 from 184 vehicles during the four peak hours in 2003. This increase in traffic volumes is likely due to construction on Municipal Road 15 and Municipal Road 80. However, staff will perform an additional count at this intersection in the spring of 2009 to ensure that the increased traffic volume is not due to growth in the area.

9) Algonquin Road at Tuscany Trail/Trailridge Drive

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Algonquin Road and Tuscany Trail/Trailridge Drive due to safety concerns.

Algonquin Road at Tuscany Trail/Trailridge Drive is a four legged intersection located one block east of the Algonquin Road at Countryside Drive intersection (see Exhibit "G"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with Stop signs facing northbound traffic on Tuscany Trail and southbound traffic on Trailridge Drive.

Applying the data from the turning movement count that was conducted on May 6, 2008 to the Minimum Volume Warrant indicates that the side street volume from Tuscany Trail and Trailridge Drive meets 62% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Date: September 23, 2008

9) Algonquin Road at Tuscany Trail/Trailridge Drive - (continued)

Based on the traffic volumes and collision history staff does not recommend installing an All-Way Stop at the intersection of Algonquin Road and Tuscany Trail/Trailridge Drive.

10) Woodbine Avenue at Agincourt Avenue

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altmann, to review the traffic control at the intersection of Woodbine Avenue and Agincourt Avenue.

Woodbine Avenue at Agincourt Avenue is a three legged intersection located four blocks west of Barry Downe Road (see Exhibit "D"). An All-Way Stop is installed at the intersection of Woodbine Avenue and Beaumont Avenue/Abigail Court which is located less than 200 metres west of the subject intersection. Currently this intersection is controlled with a stop sign facing southbound traffic on Agincourt Avenue.

Applying the data from the turning movement count that was conducted on June 13, 2008 to the Minimum Volume Warrant indicates that the side street volume on Agincourt Avenue meets 55% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Woodbine Avenue and Agincourt Avenue.

11) Roy Avenue at Lamothe Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altmann, to review the traffic control at the intersection of Roy Avenue and Lamothe Street.

Roy Avenue at Lamothe Street is a four legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route and Carl A. Nesbitt Public School is situated on the southwest corner of this intersection. Currently this intersection is controlled with Stop signs facing eastbound and westbound traffic on Lamothe Street.

Date: September 23, 2008

11) Roy Avenue at Lamothe Street - (continued)

Applying the data from the turning movement count that was conducted on June 12, 2008 to the Minimum Volume Warrant demonstrates that the side street volume from Lamothe Street meets only 48% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. While all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Roy Avenue and Lamothe Street.

12) St. Charles Lake Road at Brenda Drive/Wayne Road

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of St. Charles Lake Road and Brenda Drive/Wayne Road due to safety concerns.

St. Charles Lake Road at Brenda Drive at Wayne Road is a four legged intersection located less than 100 metres west of the Long Lake Road and St. Charles Lake Road traffic control signals (see Exhibit "G"). Brenda Drive and Wayne Road are offset from one another when they intersect St. Charles Lake Road. Currently this intersection is controlled with a Stop sign facing southbound traffic on Brenda Drive and northbound traffic on Wayne Road.

Applying the data from the turning movement count that was conducted on August 22, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 48% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of St. Charles Lake Road and Brenda Drive/Wayne Road.

13) Third Avenue at Highgate Road

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Third Avenue and Highgate Road.

Third Avenue at Highgate Road is a three legged intersection located two blocks south of the Kingsway (see Exhibit 'H'). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with a stop sign facing eastbound traffic on Highgate Road.

Title: All-Way Stop Control - Various Intersections

Date: September 23, 2008

Page: 9

13) Third Avenue at Highgate Road - (continued)

Applying the data from the turning movement count that was conducted on July 23, 2008 to the Minimum Volume Warrant indicates that the side street volume from Highgate Road meets only 22% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Third Avenue and Highgate Road.

14) Lamothe Street at Prestige Place

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 8, Ted Callaghan, to review the traffic control at the intersection of Lamothe Street and Prestige Place.

Lamothe Street at Prestige Place is a three legged intersection located two blocks north of Lasalle Boulevard (see Exhibit "D"). This intersection is part of a Greater Sudbury Transit route and an All-Way Stop is installed at the intersection of Lamothe Street and Paquette Street which is located 200 metres west of the subject intersection. Currently this intersection is controlled with a Stop sign facing northbound traffic on Prestige Place.

Applying the data from the turning movement count that was conducted on February 28, 2007 to the Minimum Volume Warrant indicates that the side street volume from Prestige Place meets only 12% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Lamothe Street and Prestige Place.

15) Third Avenue North at School Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 3, Claude Berthiaume, to review the traffic control at the intersection of Third Avenue North at School Street due to safety concerns.

Third Avenue North at School Street is a four legged intersection located four blocks west of Municipal Road 8 (see Exhibit T). The Levack Estates Subdivision will be constructed on the southwest corner of the intersection. Currently this intersection is controlled with a Stop sign facing northbound and couldbound traffic on School Street.

15) Third Avenue North at School Street - (continued)

Applying the data from the turning movement count that was conducted on August 29, 2008 to the Minimum Volume Warrant indicates that the side street volume from School Street meets only 11% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Minor Collector roadway, the Collision Warrant requires a minimum of three collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Third Avenue North and School Street. Staff was also informed by area residents that traffic volumes are heavier at 6:30 AM and 6:30 PM due to shift change at the local mines. While these times are outside of our normal count periods, due to the low traffic volumes, staff does not recommend recounting the intersection.

Local Roadways:

16) Greenbriar Road at Scarlett Road

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Greenbriar Road at Scarlett.

Greenbriar Road at Scarlett Road is a three legged intersection located two blocks east of Second Avenue (see Exhibit "H"). This intersection is part of a Greater Sudbury Transit route. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Greenbriar Road which is not a standard form of traffic control at this type of intersection.

Applying the data from the turning movement count that was conducted on May 21, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets 57% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Greenbriar Road and Scarlett Road.

Date: September 23, 2008

17) Corsi Hill at Gemma Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 1, Joe Cimino, to review the traffic control at the intersection of Corsi Hill at Gemma Street.

Corsi Hill at Gemma Street is a three legged intersection located three blocks east of Kelly Lake Road (see Exhibit "C"). Currently this intersection is controlled with a stop sign facing northbound traffic on Gemma Street.

Applying the data from the turning movement count that was conducted on July 19, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 46% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Corsi Hill and Gemma Street.

18) Meehan Avenue at Coulson Street

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 7, Russ Thompson, to review the traffic control at the intersection of Meehan Avenue and Coulson Street due to a recent collision.

Meehan Avenue at Coulson Street is a four legged intersection located one block east of Municipal Road 84 (see Exhibit "J"). The Capreol Community Centre and the Capreol Arena are situated on the southwest corner of the intersection. There is an existing All-Way Stop installed at the intersection of Hanna Avenue and Meehan Avenue which is located less than 150 metres east of the subject intersection. Currently this intersection is controlled with stop signs facing northbound and southbound traffic on Coulson Street.

Applying the data from the turning movement count that was conducted on December 11, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 43% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there was one collision that may be susceptible to relief through an All-Way Stop during this three year period. White all collisions are undesirable, the collision experience would not be considered high, and does not show a pattern that could be corrected with an All-Way Stop. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-VVay Stop at the intersection of Meehan Avenue and Coulson Street.

Title: All-Way Stop Control - Various Intersections

Date: September 23, 2008

19) Lamothe Street at Lincoln Road

The City's Traffic and Transportation Engineering Services section received a request from the Councillor for Ward 12, Joscelyne Landry-Altmann to review the traffic control at the intersection of Lamothe Street and Lincoln Road.

Lamothe Street at Lincoln Road is a four legged intersection located one block west of Barry Downe Road (see Exhibit "D"). There is an existing All-Way Stop installed at the intersection of Lamothe Street and Holland Road which is located 100 metres west of the subject intersection. Currently this intersection is controlled with stop signs facing eastbound and westbound traffic on Lamothe Street.

Applying the data from the turning movement count that was conducted on February 28, 2007 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 29% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes, collision history and the close proximity to the Lamothe Street at Holland Road All-Way Stop, staff does not recommend installing an All-Way Stop at the intersection of Lamothe Street and Lincoln Road.

20) Rheal Street at Donald Street

The City's Traffic and Transportation Engineering Services section received a request from area residents to review the traffic control at the intersection of Rheal Street at Donald Street due to the increased traffic from the new Moonlight Ridge subdivision being built.

Rheal Street at Donald Street is a three legged intersection located two blocks south of the Kingsway (see Exhibit "H"). Currently this intersection is controlled with a stop sign facing southbound traffic on Donald Street.

Applying the data from the turning movement count that was conducted on July 18, 2008 to the Minimum Volume Warrant indicates that the total vehicle volume from all of the approaches meets only 23% of the volume requirements. A review of the City's collision information from 2003 to 2005, inclusive, revealed that there were no collisions that would be susceptible to relief through an All-Way Stop during this three year period. For a Local roadway, the Collision Warrant requires a minimum of two collisions per year over a three year period.

Based on the traffic volumes and collision history, staff does not recommend installing an All-Way Stop at the intersection of Rheal Street and Donald.

Request for Recommendation Traffic Committee



Type of Dec			e div.			27			Marks.
deeting Date Recommendatio	May 7, 200.		T T		Report Cate	Apr	nl 30, 2008	A VANDARY CONTRACTOR	A STATE OF
.ccomm endatic		X	Yes	No	Priority	x	High	Low	
		Dire	ection On	ly	Type of Meeting	×	Open	Closed	

Report Title

All-Way Stop Policy

Policy Implications + Budget Impact

This report and recommendation(s) have been reviewed by the Finance Division and the funding cource has been identified

Recommendation

That the City of Greater Sudbury approve the modified warrant for determining the need for all-way stops. The modified warrant reduces the minimum volume and collision threshold as described in the report dated April 30, 2008 from the General Manager of Infrastructure Services.

That only those requests for all-way stops that satisfy the minimum warrants be brought forward for Council's consideration.

Background attached

Recommendation attached

Recommended by the Department Head

e Cit Mar weer at infrastant son Servicing

Recommended by the C.A.O.

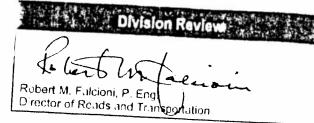
Title: All-Way Stop Policy

Date: April 30, 2008

Page: 1



Dave Kivi, Coordinator of Transportation and Traffic, Engineering Services



Introduction

At the Traffic Committee meeting held on September 18, 2007, staff was requested to survey other municipalities regarding their All-Way Stop policies and recommend an All-Way stop policy for the City of

In late November 2007 a survey was sent to over 30 Ontario municipalities requesting information regarding their policies and procedures related to All-Way stops and number of other traffic related issues. As of February 2008, a total of 12 surveys have been returned to us. In addition to these, we were able to find All-Way stop policies for a number of other municipalities through an internet literature review. A summary of the survey questions and responses received are contained in Exhibit "A".

Background

It is a common perception that All-Way stops are the answer to neighborhood traffic problems. People often believe that they reduce speeding and improve safety. The purpose of an All-Way stop is to alternate right-of-way at an intersection. All-Way stops can be an effective traffic control device when installed at busy intersections with similar traffic volumes and characteristics. All-Way stops disrupt the flow of traffic and introduce delay to all drivers within the intersection. Therefore, they should only be installed at intersections based on the vehicle and pedestrian volumes or at intersections having a high collision frequency.

Speed Control

Often times, All-Way stops are requested by residents to slow traffic down on a roadway. Unfortunately, All-Way stops are not effective as speed control devices. Studies have shown that speeds are only reduced in close proximity to the sign, and mid-block speeds actually increase after stops signs are installed as drivers

<u>Safety</u>

It is common belief that All-Way stops will increase safety at an intersection. Stop signs can reduce certain types of collisions such as right angle or turning types if they are prevalent at an intersection. However, the unwarranted installation of All-Way stops increases driver frustration, reduces compliance, and creates disrespect for stop signs. This behavior can spread to other intersection where stop signs are required. The inappropriate use of Ail-Way stops can decrease safety for pedestrians and cyclists, especially young children,

Environment and Economic Impact

All-Way stops are relatively inexpensive to install, which is one reason they are requested so often. However, they can greatly increase fuel consumption, noise, and air pollution, due to constant braking and acceleration Title: All-Way Stop Policy

Date: April 30, 2008

Page: 2

that occurs. It has been reported that additional gasoline consumed from one stop sign on a typical collector

The Ministry of Municipal Affairs and Housing indicates that a typical four-way stop generates the following emissions on a yearly basis:

657 kg of Hydro Carbons 8,760 kg of Carbon Monoxide 675 kg of Nitrogen Oxide 65,700 kg of Carbon Dioxide

All-Way Stop Warrant

As previously mentioned, All-Way stops can be an effective means of traffic control when installed under the proper circumstances. Currently, the City of Greater Sudbury follows Provincial Warrants published in the "Ontario Traffic Manual" for determining the need for All-Way stop control. This warrant is used by five (5) of the twelve (12) municipalities surveyed and is the most commonly used warrant in Ontario. The use of standard criteria, or warrants, is very important for determining the need for All-Way stops and other traffic control devices. Warrants provide a method of analysis that is based on engineering principles which can be applied consistently at intersections throughout the City of Greater Sudbury.

The following is some of the criteria that is used in the Provincial Warrant:

Minimum Volume Warrant

1) Arterial and Major Collector Roads:

- Total vehicle volume on all approaches exceeds 500 vehicles per hour for an eight (8) period, a)
- A combined vehicle and pedestrian volume from the minor street is more than 200 per hour for b)
- The traffic volume on the intersecting streets is similar and does not exceed a split of 70/30. c)

2) Minor and Local Streets

Total vehicle volume for all approaches exceeds 350 vehicles for the highest hour, and a) the volume split does not exceed 75/25 for three-way control and 65/35 for four-way control.

Collision Warrant

For both major and minor roadways, All-Way stops are warranted when there is an average of four (4) or more collisions per year over a three (3) year period. Only those collisions that are susceptible to correction, though multi-way stop control must be considered, such as angle and turning movement collisions.

Date: April 30, 2008

Other Considerations

The Ontario Traffic Manual states that all-way stops should not be used under the following conditions.

- As a speed control device
- Solely to protect pedestrians, especially school aged children
- Where traffic would be required to stop on grades
- At offset intersections, or intersections with poor geometry or more than four (4) legs On multi-lane approaches
- Higher speed roadways (speed limit greater than 60 km/h)
- Where visibility of the sign is hampered by curves
- Within 250 metres of traffic signals or another stop sign
- On truck or bus routes, except in industrial areas where two such routes cross

Modified Warrant

Based on the comments of the Traffic Committee that the Provincial All-Way Stop Warrants are too restrictive; staff has developed an alternative warrant based on the survey results and policies used by other Ontario municipalities. This Warrant is based on the same principles contained in the Ontario Traffic Manual. The main difference is that the traffic volume and collision warrants have been reduced for lower volume collector roads and residential roadways. If approved, the proposed warrant would be similar to the warrants used in the cities of Toronto and Oakville. A summary of this warrant is shown in Exhibit "B", and described below.

Minimum Volume Warrant

- 1) Arterial and major collector roadways with Annual Average Daily Traffic volume (AADT) greater
 - Traffic volume and collision warrant remains as per the Ontario Traffic Manual. a)
- Minor collector roads with an AADT between 1,000 and 5,000. 2)
 - Total vehicle volume on all approaches reduced from 500 vehicles per hour for eight (8) hours a) to 350 vehicles per hour for only four (4) hours.
 - The combined vehicle and pedestrian volume on the minor approach reduced from 200 per b) hour for eight (8) hours to 140 per hour for only four (4) hours.
 - The volume split remains at a ratio of 70/30. C)
 - Collision frequency is reduced from four (4) per year to three (3) per year over a three (3) year **d**) period. Only collisions that may be corrected with an all-way stop are to be considered.
- 3) Local roads with an AADT less than 1,000.
 - The total vehicle volume on all approaches reduced from 350 vehicles in the highest hour to a) 250 vehicles per hour for a four (4) hour period.

Title: All-Way Stop Policy

Date: April 30, 2008

Page: 4

b) Simplify the volume split at a ratio of 70/30 for all conditions where a split of 75/25 for the three-way control and 65/35 for four-way control are currently required.

c) Collision frequency is cut in half from four (4) collisions per year to two (2) collisions per year for a three (3) year period. Only collisions that may be corrected with an all-way stop are to be considered.

Other Considerations

Remain as per the Ontario Traffic Manual.

Procedures

In order to ensure that all-way stops serve their intended purpose and make the best use of staff time, it is recommended that the following procedures be followed.

- Requests for all-way stops related to a speeding problem will be referred to the City's Speed Watch Program and the Traffic Calming Policy, which is currently being developed.
- Requests for all-way stops related to right of way control or to correct a collision problem will be analyzed based on the approved all-way stop policy.
- 3) Only those intersections that satisfy the requirements for all-way stop control will be brought forward to the Traffic Committee for consideration.

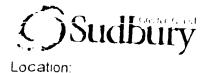
EXHIBIT: A

TRAFFIC SURVEY ALL-WAY STOP

Municipalit	y All-Way Stop Warrant	Detailed Engineeri Analysis	Totalion of Committee
City of Water	OTM Book 5	Review traffic coun collisions, geometrics	and Only those that meet th
City of Barrie	OTM Beck 5	Review traffic count collisions, geometrics.	t.
City of Windson	Minimum vehicular + Pedestrian volum Collector & Local = 150 veh per hor	operational construct	Only those that meet the
City of Brockville		Review traffic count, collisions, geometrics ar	Only those that meet the
City of Oakville	Minimum vehicle volumes on all approach Major collector = 400 veh per hour Minor collector = 350 veh per hour Local = 300 veh per hour Minimum vehicular + Pedestrian volume Major collector = 160 veh per hour Minor collector = 140 veh per hour Local = 120 veh per hour Collision history Arterial & Major collector 5 per year over a 3 year period		
City of Cambridge	OTM Book 5 (Modified) Minimum vehicle volumes on all approache Local = 250 veh per hour	Review traffic count, collisions, geometrics and operational constraints. Speed concerns are referred to the traffic calming policy	request is volume hased as
City of Vaughan	OTM Book 5	Review traffic count, collisions, geometrics and operational constraints	All of the requests.
City of London	Minimum vehicle volumes on all approaches Minor Collector = 350 veh per hour	Review traffic count (5 peak hours), collisions, geometrics and operational constraints	Only 10% of the major ssues are reported to Councit.
y of Niagara Falls	Minimum vehicle volumes on all approaches Minor collector & Local = 350 veh per hour Min mum vehicular + Pedestrian volume Minor collector & Local = 160 veh per hour	Assess speed to determine if there is a speeding problem (speed study). Assess whether an all way stop is warranted based on collisions, visibility problems and 3 hour TMC. Patition households with n 75 m of	Reports are only prepared for intersections which meet the warrant, unless it is a specific request from committee or council if it is not warranted a lefter would be typically sent to residents within the 25 morting.
viol of Newmarkat a	Modified OTM Book 5 warrant without the rectional splits but an increased emphasis an pelestrian activity.	Review FMC and all way stop warrant analysis	All of the requests

Municipality	All-Way Stop Warrant	Detailed Engineering	Council or Committee
City of Guelph	OTM Book 5	another local road only the peak hour volume is locked	Report No unless directed specificar by Council to report back on the
Region of Niagara	OTM Book 5	at initially. Review traffic count, collisions, geometrics and operational constraints.	No, only respond back to the individual request.

EXHIBIT: B



CITY OF GREATER SUDBURY ALL-WAY STOP WARRANTS

			Analyst: 	-	
	All-Way	Stop Warrant	Summary		
Warrant #1		hicle Volume			
Warrant #2	Collision His	tory			%
Warrant #3	Traffic Contro	ol Śignal s			\% \Y/N
		Warranted?]Y/N
Warrant #1 - Minimum V	/ehicle Volum	е			
Roadway Type	Arterial/Major Collector	Minor Collector	Local	Vehicles pe	r Percent
AADT	> 5000	1000 - 5000		hour	Compliance
Count Period	7 hours	4 peak hours	< 1000		
Total vehicle volume		T peak nours	4 peak hours		
from all approaches is ≥	500/hr	350/hr	250#		
Veh + Pedestrian volumes		330/111	250/hr		
from side street is ≥	200/hr	140/hr	N/A		
Traffic Split	70/30	70/30	70/30		
Varrant #2 - Collision His	story		70/30	/	Y/N
Deady	Arterial/Major			Miranta a I	
Roadway Type	Collector	Minor	Local	Number of	Percent
Collisions nor V	Odirector	Collector	Local	Collisions	Compliance
Collisions per Year over 3 year period	4*	3*		per year	
		- 1	2*		
	Traffic Control	Signals are wa	arranted and u	irgently need	dod
nly those collisions susceptible to refel	signs to be use	ed as interim m	neasures.	gandy need	Y/N

- Only those collisions susceptible to relief through multi-way stop control must be consider (i.e. right angle and turning types).
- If the intersection meets warrant # 1, then the all-way stop is recommended regardless of the remaining warrants.
- if the intersection does not meet warrant #1 and does not meet warrant #2, then the all-way stop is not recommended.
- If the intersection does not meet warrant #1 and does meet warrant #2, then the all-way stop is recommended

EXHIBI		Collision Collision (Collision Marchael	All-Way Stop	Vehicle and Number Of (CGS Warrant) Pedestrian Percent Collisions Over Side Street (#Mnurl Amnurl Amnurl				200	-			200	82	3 55	65	0 00	1 23		34 0	0	6	8 0			N/A 6	18 0		+		0 /1	
	Vacana	United by Tables	Ontario Irami	o E v	(#/ mom/#)	905	577	368	160	63		903	017	230	283	268	278	181	506	169	1	147			OSC 1	200	100	1	1	+	
		n Volume		Rank			-	· -		7			\ -\	<u>-</u> -	\ \	1-	-	9	,	8		의:	= -				7	~	-	-	_
. ,		Warrant #1 - Minimum Volume sufficiency	arrant	Percent Compliance				80/5	Σ Σ	3/2	; }			8]	6);	= 5	2 3	1		_	_	17	=								7.7
		Warrant	Vay Stop W	raffic Split			70/30	73/27	35/15	39/11	6/16		70/30	58/42	12/28	67/33	13/27	57/5/	2/2/02	58/42	72/28	34/6	36/14			70/30	16/54	33/17	59/11	31/19	
			New CGS All-Way Stop Warrant	Vehicle and Pedestrian Volume From	(#/pont)		2002	157	177	20	91		140	176	111	99	98	98	;	89	0 -	-	15			A/N		_	T	_	
					Approaches (#/hour)		300	577	898	160	313		035	410	780	783	366	278	477	907	691	901	1 2	8,		95,	200	115	101) F	
	All-Way Stops Warrant Summary			Location			Arterial/Major Collector	Minimum Reduited	Martindale Road at Copper Street	Kelly Lake Road at Coppel Street	Lansing Avenue at Melbourne arrect			1 1	Leslie Street at Mont Adam Street	Dell Street at Bruce Avenue	Lillian Boulevard at Holland Koad	Montee Rouleau at St. Laurent St.	Algonquin Rudu at Toront Avenue	Avoidonie Avenue at Lamothe Street	st Charles Lake Road at Brenda Drive/Wayne Road	Third Avenue at Highgate Road	Lamothe Street at Prestige Place	Third Avenue North at School Street			Minimum Required	Greenbriar Road at Scarlett Road	Corsi Hill at Gemma Street	Meehan Avenue at Coulson Street	1 303d
	All-Way	-		11 .			Arterial/N		-	2	-	1	Minor Collector		5	9	,	8	6	2 :	+	71 =		15		Local		91	17	13	

EXHIBIT: C

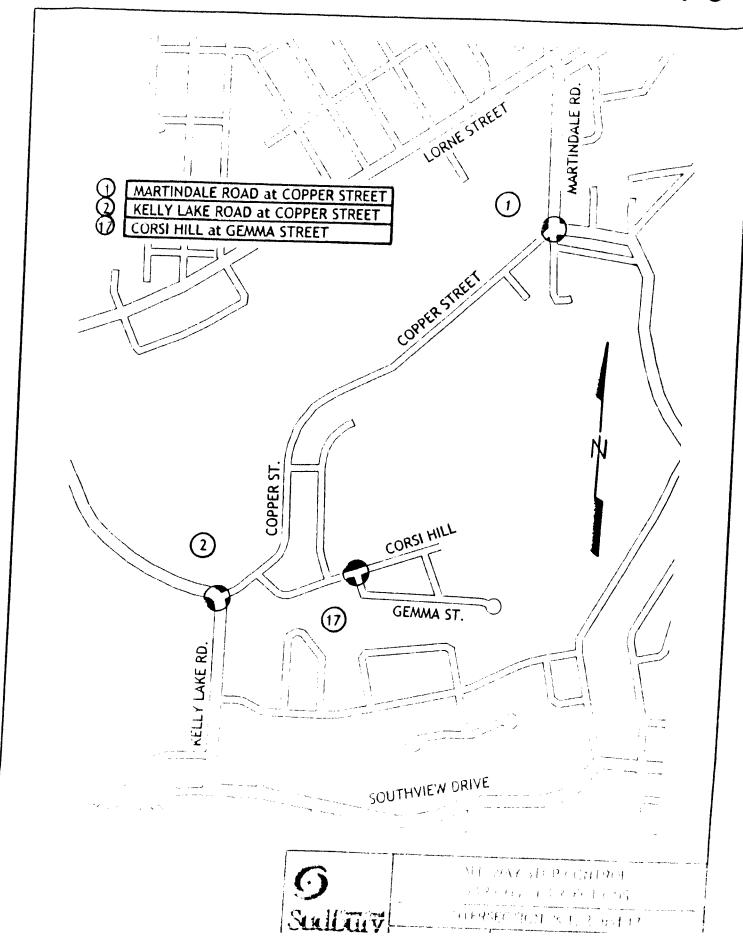
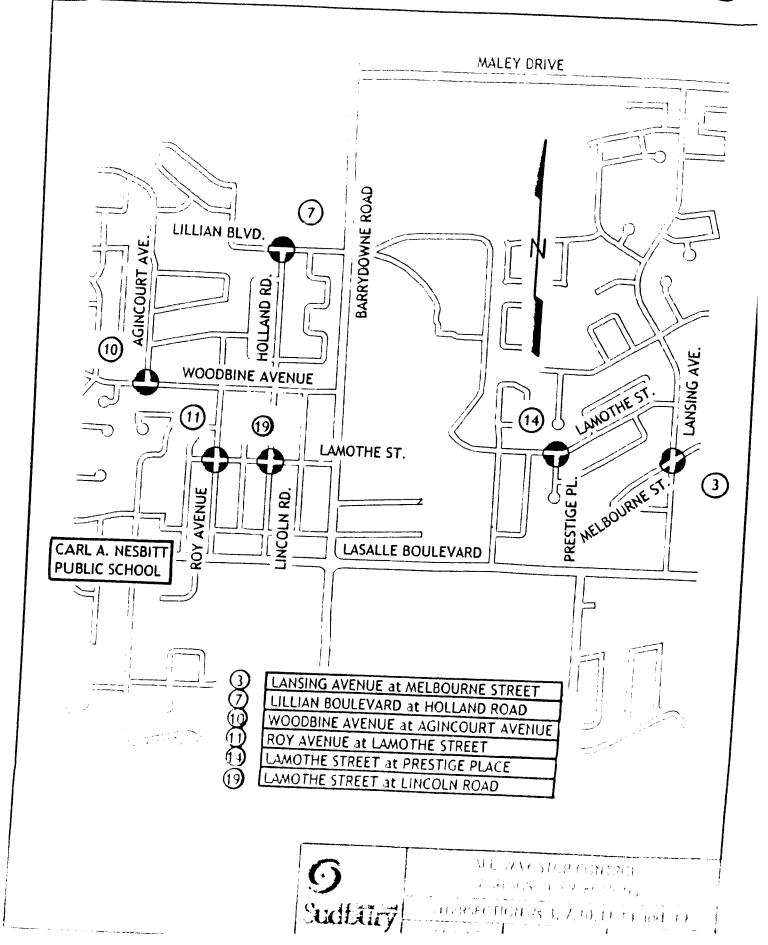


EXHIBIT: D



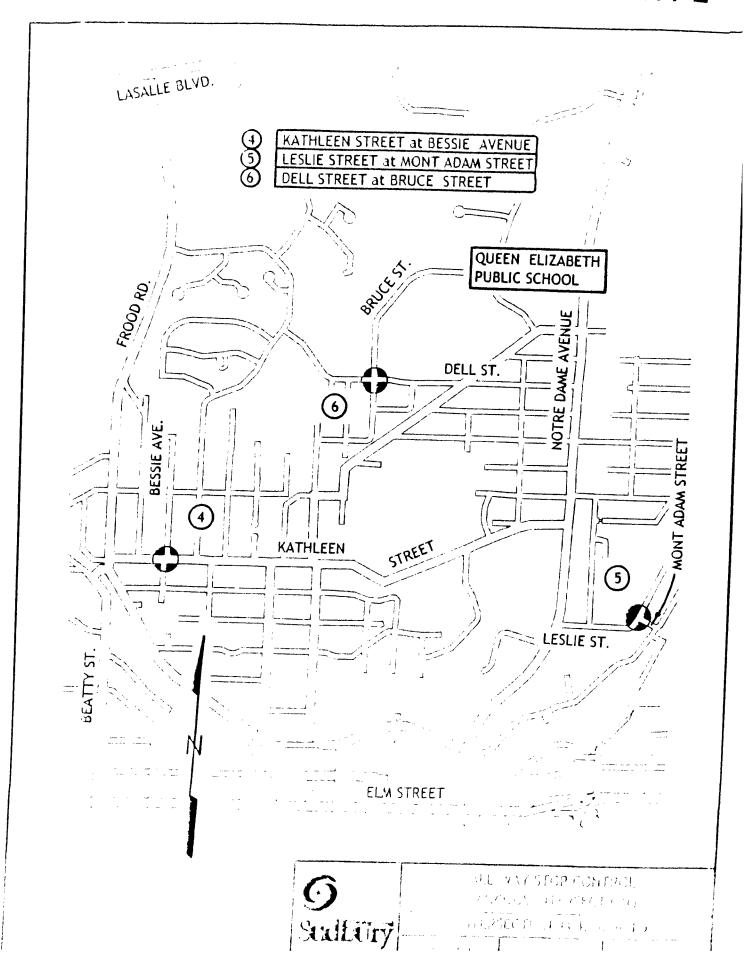


EXHIBIT: F

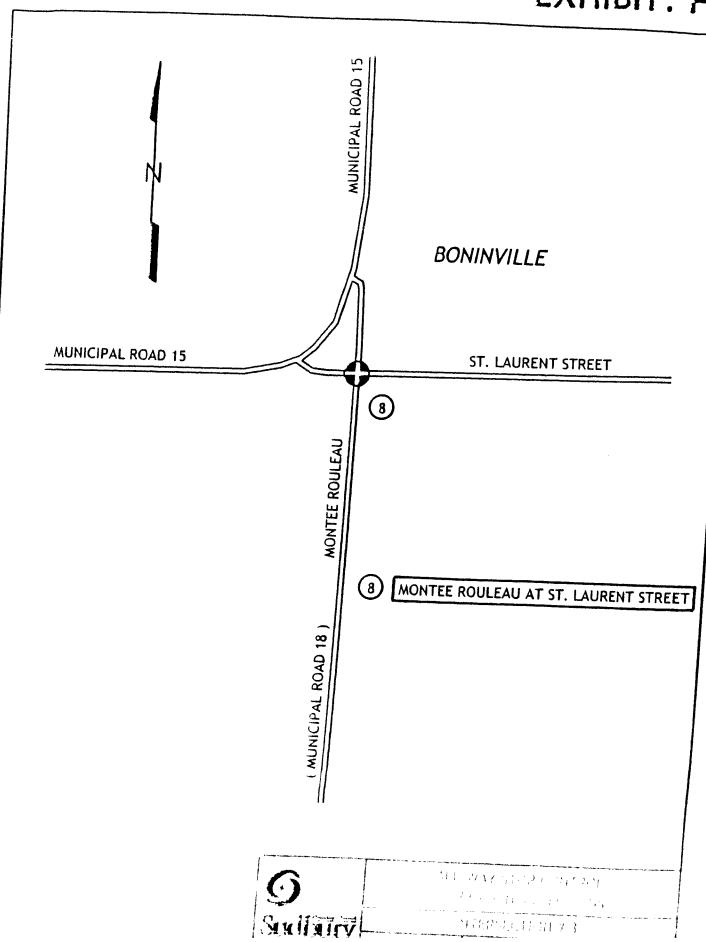


EXHIBIT: G

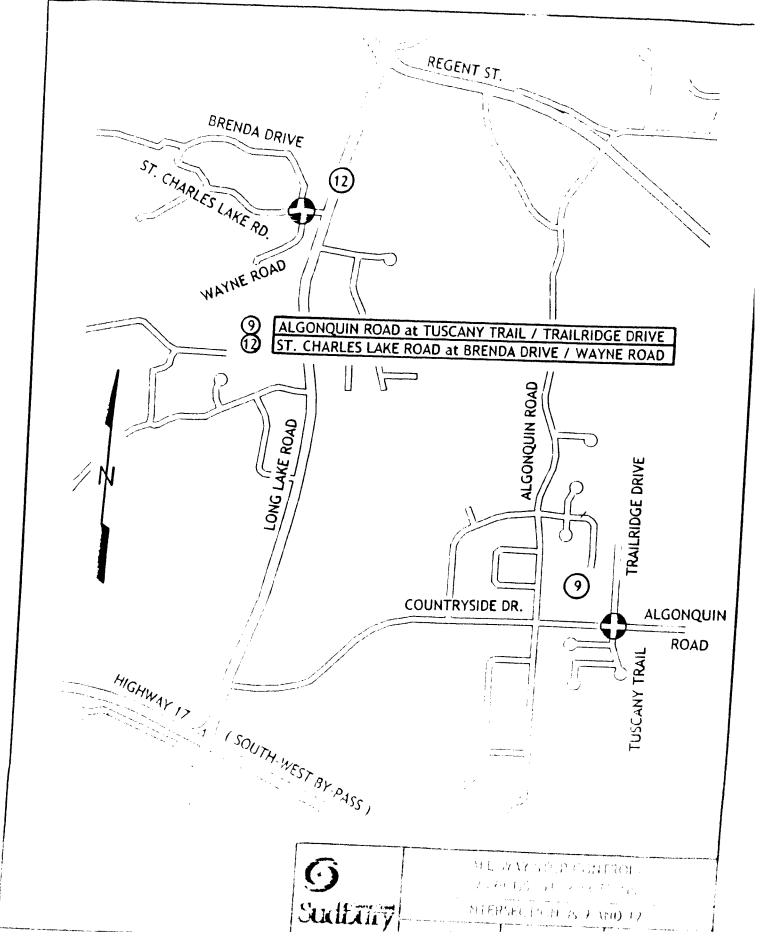


EXHIBIT: H

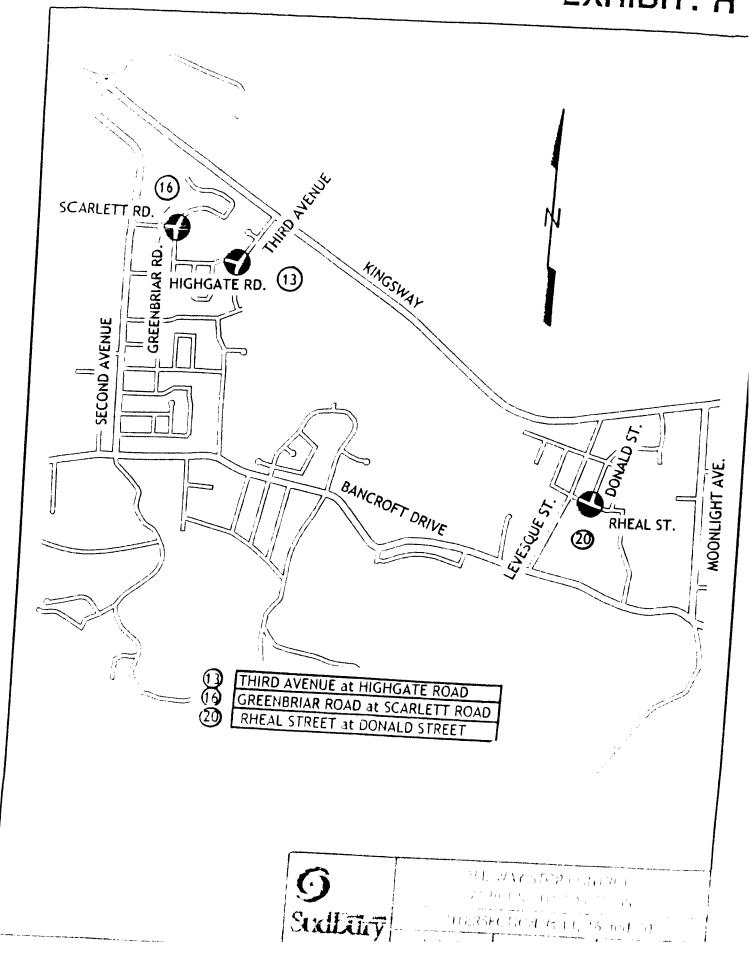


EXHIBIT:

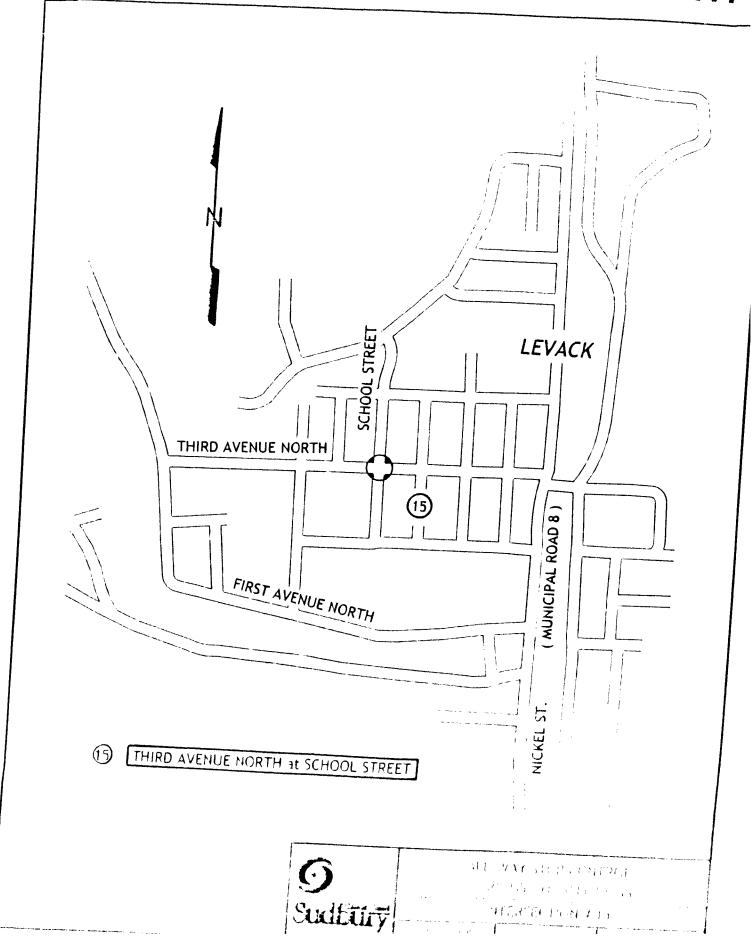
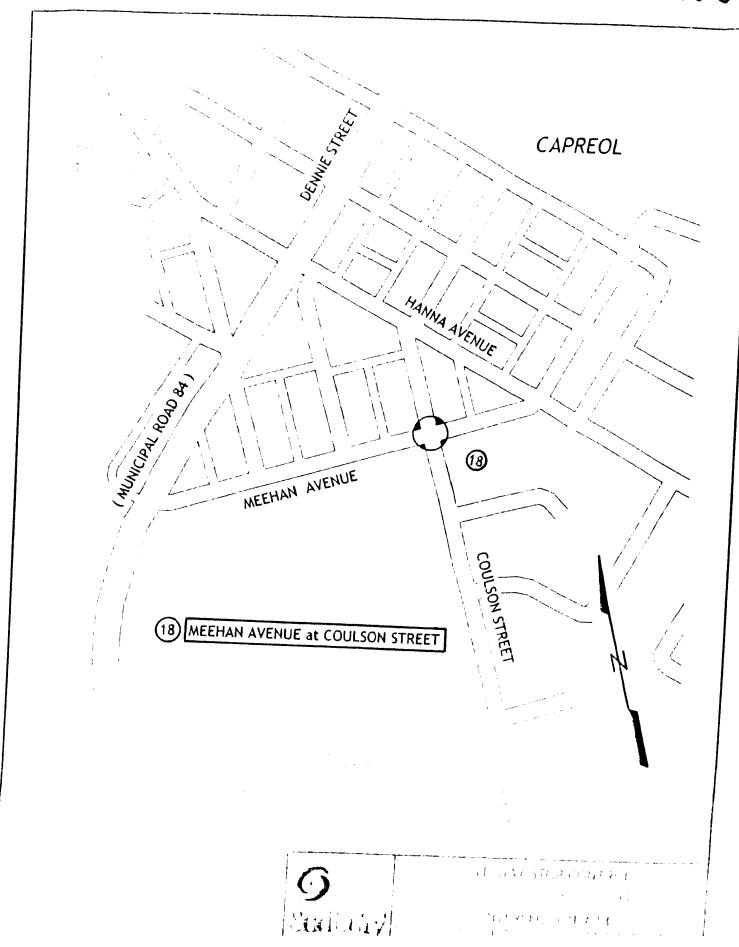


EXHIBIT: J



CITY OF GREATER SUDBURY

SCHEDULE "O" TO BY-LAW 2001-1

STOPS AT INTERSECTIONS

(1) (2) Intersection Direction of Travel

ADD:

Leslie Street Mont Adam Street (Sudbury) North and South on Leslie Street

West on Mont Adam Street



Interoffice Correspondence

October 30th, 2008

TO: G. Clausen, General Manager Infrastructure Services

FROM: L. Oldridge, Deputy City Clerk

RE: All-Way Stops - Various Intersections

The following intersections were recommended for deferment to be reviewed under the Traffic Calming Policy:

- Intersection #6 Dell Street at Bruce Avenue;
- Intersection #7 Lillian Boulevard at Holland Road;
- Intersection #9 Algonquin Road at Tuscany Trail/Trailridge Drive;
- Intersection #11 Roy Avenue at Lamothe Street.

The following intersection was recommended for deferment for annual traffic counting as new subdivisions will likely increase traffic:

Intersection #2 - Kelly Lake Road and Copper Street.

The following intersections were recommended for deferment while waiting on further information from the Ward Councillor:

- Intersection #3 Lansing Avenue at Melbourne Street;
- Intersection #14 Lamothe Street at Prestige Place.

The following intersections were recommended for deferment until current collision data could be obtained:

- Intersection #10 Woodbine Avenue at Agincourt Avenue;
- Intersection #19 Lamothe Street at Lincoln Road.

The following intersection was recommended for deferment until current collision information can be obtained:

Intersection #8 - Montee Rouleau Street and Laurent Street.

/ec

Lisa Oldridge Deputy City Clerk

CC:

R. Falcioni

D. Kivi

D. Sheldsted



Type of Dec	ision										
Meeting Date	August 26, 2009					, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Report Date	July	<i>y</i> 28, 2009		
Recommendation			Yes	х	No		Priority	х	High	Low	
		Dire	ection O	nly			Type of Meeting	х	Open	Closed	

Report Title

One-way Stree William Stre	et Designation eet, Garson
This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified X Background attached	Recommendation That William Street be designated as a "One-Way" street for southbound traffic between Birch Street and Falconbridge Road (MR 86) and; That the by-law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to implement the recommended change all in accordance with the report from the General Manager of Infrastructure Services, dated August 26, 2009. Recommendation attached
	1.350mmonation attached

Recommended by the Department Head

Stellann.

Greg Clausen, P. Eng. General Manager of Infrastructure Services Recommended by the C.A.O.

Doug Nadorowny Chief Administrative Officer

Title:	One-way	street	Desig	nation

Date: July 28, 2009

Report Authored By Division Review

Dave Kivi, Coordinator of Transportation and Traffic, Engineering Services

Robert M. Falcioni, P. Eng. Director of Roads and Transportation

Background:

At the City Council meeting of June 10, 2009, Councillor Thompson submitted a petition that William Street be made a "One-way" street (see Exhibit "A"). The petition requests that William Street be designated as "One-Way" in the southbound direction to improve safety near St. John School due to the presence of school buses, parent parking and pedestrian activity.

William Street is a local residential road located in the community of Garson that provides a connection between Falconbridge Highway (MR 86) and Birch Street (see Exhibit "B"). William Street is constructed to an urban standard with an asphalt surface width of eight (8) metres and a sidewalk along the east side.

St. John's Elementary School is located near the north end of the street. Due to the lack of on-site parking, school buses currently use the west side of William Street to load and unload children. Parents also use the east side of the street to pick up and drop off children making it very difficult for vehicles travelling in opposite directions to by-pass each other.

Changing William Street to "One-Way" in the southbound direction will improve traffic operations near St. John School. In addition, left turns which currently occur at the intersection of Falconbridge Highway and William Street, without the benefit of a left turn lane, will move to the signalized intersection of Falconbridge Highway and Church Street which has a left turn lane and advanced left turn signal phase. It will also be relatively easy to sign William Street for "One-Way" traffic as there are no intersections along it other than at each end.

While there are a number of advantages to making William Street "One-Way", there are also a number of disadvantages. Travel distance will increase, especially for residents who live near the south end of the street. Traffic volumes will also increase at the north end of the street. In addition, some residents may chose to travel in the wrong direction to save time, and unfamiliar drivers may go the wrong way by mistake.

Staff supports the petition, which has been signed by the majority of the residents, to change William Street to "One-Way" in the southerly direction. The change will improve traffic operations and safety near St. John School. The Sudbury Student Services Consortium have also indicated their support for the One-Way Designation.



Page: 1

COPY TAKE EXHIBIT: A



INTEROFFICE MEMO

DATED:

June 17, 2009

TO:

G. Clausen, General Manager of Infrastructure Services

FROM:

A. Haché, City Clerk

RE:

Petition - William Street, Garson

Greater Sudbury

Roads/Transportation

JUN 2 5 2009

Director's Office

At the City Council meeting of June 10, 2009, Councillor Thompson submitted a petition to the City Clerk requesting that William Street be made a one-way street signed by approximately 34 residents.

Attached is a copy of the cover page of the petition and the first page of signatures. The complete petition is available in the Clerk's Office if you wish to review it.

A. Hacké

/fb

Angie Haché City Clerk

Attachment

cc:

R. Falcioni, Director of Roads & Transportation

PETITION FOR WILLIAM STREET

GARSON, ONTARIO

William street in the winter can be very frustrating. The street is very narrow and the sidewalk does not get cleaned. There is barely enough room for two vehicles to go by. In the morning and afternoon when school busses are out, the vechiles must try and pull to the side to let them go by; if you meet a school bus on the comer you have to back up. Pedestrians must walk on the road. There is more traffic on this road due to the daycare at the school. Cars park in front of the school to pick up their children and with the buses there also, sometimes you cannot get by. The only solution to this problem would be to keep the street and sidewalk clean or make the street a one way. Enter off Birch St. and exit on to Falconbridge Hwy.

Howey auchonoush 100 million H.

Leslie + Stuart Vallier 57 William.

Marianne Shendan

Jamet Lait 10 4 William St.

Sugmedland 110 William St.

Kevin Senenik Men Lunk 144 williams;

Errical to Denis Moss-Deslages 141 William St.

Room Gilliam Rorison 120 William.

William Rorison 120 William St.

Wary McLean 159 William St.

William St.

170. William St.

PETITION FOR WILLIAM STREET

GARSON, ONTARIO

William street in the winter can be very frustrating. The street is very narrow and the sidewalk does not get cleaned. There is barely enough room for two vehicles to go by. In the morning and afternoon when school busses are out, the vechiles must try and pull to the side to let them go by; if you meet a school bus on the corner you have to back up. Pedestrians must walk on the road. There is more traffic on this road due to the daycare at the school. Cars park in front of the school to pick up their children and with the buses there also, sometimes you cannot get by. The only solution to this problem would be to keep the street and sidewalk clean or make the street a one way. Enter off Birch St. and exit on

to Falconbridge Hwy, Descardine 89 William 71 William St 65 William St. 53 william ist

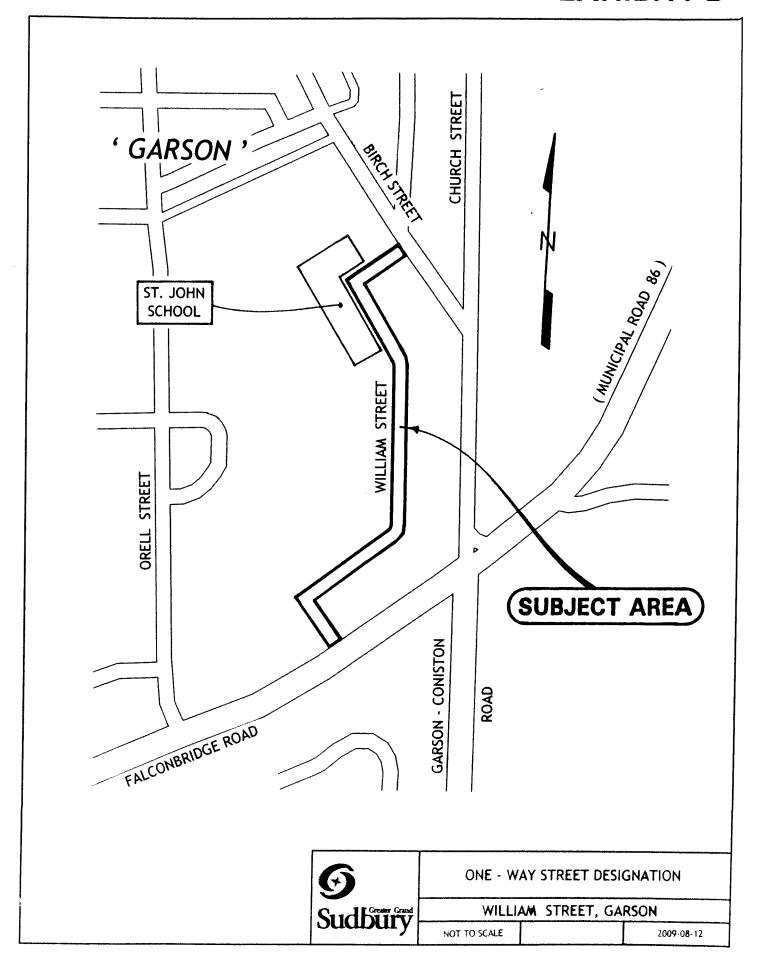
ennis B-Rule

133 William ST 156 William st. 153 Wulliam 87. 147 William St

98 William str 226 Williams

123 William St Garson

EXHIBIT: B





Type of Dec	ision									
Meeting Date August 26, 2009						Report Date	July 22, 2009			
Recommendation		Yes	x	No	以版制。 证据	Priority	x High Low		Low	
		Direction	Only			Type of Meeting	х	Open	Closed	

Report Title

Traffic Control - Toya Court, Hanmer

identified

Ы	olicy implications + Budget impact
	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has beer

Recommendation

That the Toya Court and Lee Street intersection be controlled with a "Yield" sign facing eastbound traffic on Toya Court;

And

That a by-law be passed by City Council to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury to implement the recommended changes all in accordance with the report from the General Manager of Infrastructure Services dated July 22, 2009.

	X	Background attached				
--	---	---------------------	--	--	--	--

Recommendation attached

Recommend	ed	by t	he	De	part	men	ш	ead

Allaum

Greg Clausen, P. Eng. General Manager of Infrastructure Services Recommended by the C.A.O.

Doug Nadorozny
Chief Administrative Officer

Title:	Traffic Control	
Date:	July 22, 2009	

Page: 1

Report Authored By

Dave Kivi, Coordinator of Transportation and Traffic, Engineering Services

Division Review

Robert M. Falcioni, P. Eng. Director of Roads and Transportation

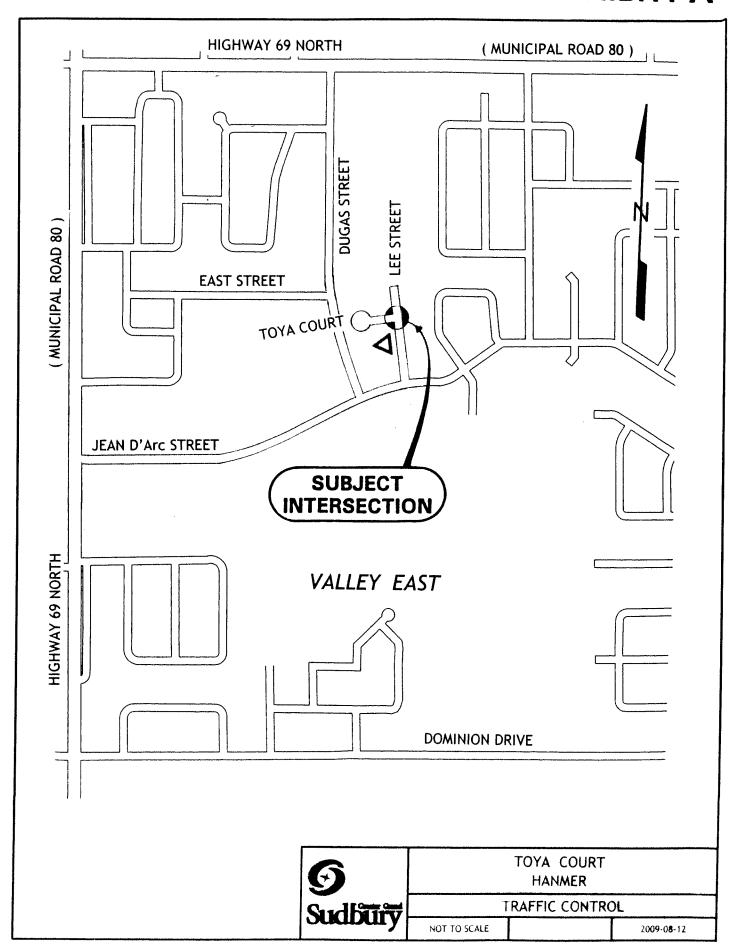
Background:

Phase 11 of the Dominion Parc subdivision is currently being developed in Hanmer (see Exhibit 'A'). The City of Greater Sudbury will assume Toya Court as a public road and traffic control is required at the intersection of Toya Court and Lee Street.

Toya Court intersects Lee Street forming a "T" intersection. A Yield sign is appropriate when the traffic volume is low, sight lines are good and stopping is not always required. At this intersection all of these conditions are met; therefore it is recommended that traffic be controlled with a Yield sign facing eastbound traffic on Toya Court.

It is recommended that a by-law be passed to amend the Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury, to implement this change.

EXHIBIT: A





Type of Dec	ision									
Meeting Date August 26, 2009						Report Date	July	, 22, 2009		
Recommendation	Recommendation Yes		x	No		Priority	x High Low		Low	
		Direction	Only			Type of Meeting	х	Open	Closed	

Report Title

	School Zone Speed Limit - Junction Avenue and Laurin Street, Azilda										
Pol	icy Implications + Budget Impact		Rec	ommendation							
	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified		Cha spee Stre Stre pres And That ame the co	t the speed limit on Junction Avenue from rlebois Street to St. Jean Street, and the ed limit on Laurin Street from Charlebois et to 120 metres south of Notre Dame et be reduced to 40km/h due to the ence of École publique Franco-Nord. It a by-law be passed by City Council to nd Traffic and Parking By-Law 2001-1 in City of Greater Sudbury to implement the mmended change all in accordance with report from the General Manager of istructure Services dated July 22, 2009.							
Х	Background attached			Recommendation attached							
X	Баскугоина аπаспеа			Recommendation attached							

Recommended by the Department Head

Greg Clausen, P. Eng.

Greg Clausen, P. Eng. General Manager of Infrastructure Services

Recommended by the C.A.O.

Doug Nadorozny
Chief Administrative Officer

Title: School Zone Speed Limit

Date: July 22, 2009

Division Review

Page: 1

Robert M. Falcioni, P. Eng.

Director of Roads and Transportation

Report Authored By

Dave Kivi, Coordinator of Transportation and Traffic, Engineering Services

Background:

The City's Traffic and Transportation Engineering Section has received a request from the Chairperson of the Conseil scolaire public du Grand Nord de l'Ontario to reduce the speed limit on Junction Avenue and Laurin Street to 40km/h (see Exhibit A).

École publique Franco-Nord is a primary grade aged school situated between Junction Avenue and Laurin Street (see Exhibit B).

Junction Avenue and Laurin Street are both Local residential roadways that are constructed to a rural standard with an asphalt surface width of approximately ten meters and gravel shoulders. The existing maximum speed limit on both Junction Avenue and Laurin Street is 50 km/h.

To deal with numerous requests to reduce the speed limit near schools, City Council adopted a school zone speed reduction policy in 2001 and further revised the policy in 2009. The approved policy states the following:

That Staff be directed to bring to the attention of City Council request for speed reduction zones adjacent to schools based on the following considerations:

- That a school speed zone be installed at schools with primary grade aged students.
- That the school speed zone be limited to residential streets or residential collector streets.
- That the maximum speed of the roadways considered for school speed zones be 50 km/h.
- That if schools are closed, the speed limit will revert back to 50 km/h.
- That only those requests that meet the above four criteria be brought forward by Staff to City Council for consideration.

As the request is in keeping with the City's policy, Staff recommends that the speed limit on Junction Avenue from Charlebois Street to St. Jean Street, and the speed limit on Laurin Street from Charlebois Street to 120 metres south of Notre Dame Street be reduced to 40km/h



EXHIBIT: A

CONSEIL SCOLAIRE PUBLIC DU GRAND NORD DE L'ONTARIO

May 11, 2009

TRANSLATION

Mr. Dave Kivi
Coordinator of Transportation and Traffic Engineering Services
City of Greater Sudbury
Infrastructure Services
Roads and Transportation
1800, rue Frobisher
Sudbury ON P3A 5P3

Mr. Kivi,

As Chairperson of the Conseil scolaire public du Grand Nord de l'Ontario (CSPGNO), I wish to advise you that the School Board requests that the speed zone in front of the elementary school, École publique Franco-Nord, situated at 178 Junction Avenue in Azilda be reduced. Please note that this request is in keeping with By-law 2004-275 of the City of Greater Sudbury regarding a School Zone Speed Policy. Moreover, CSPGNO is requesting that the City of Greater Sudbury install speed signs indicating a maximum speed of 40 km/h.

It is of utmost importance to the School Board that the safety of students, staff members and the general public be ensured at all times. I am confident that the City of Greater Sudbury will support all measures taken to this end.

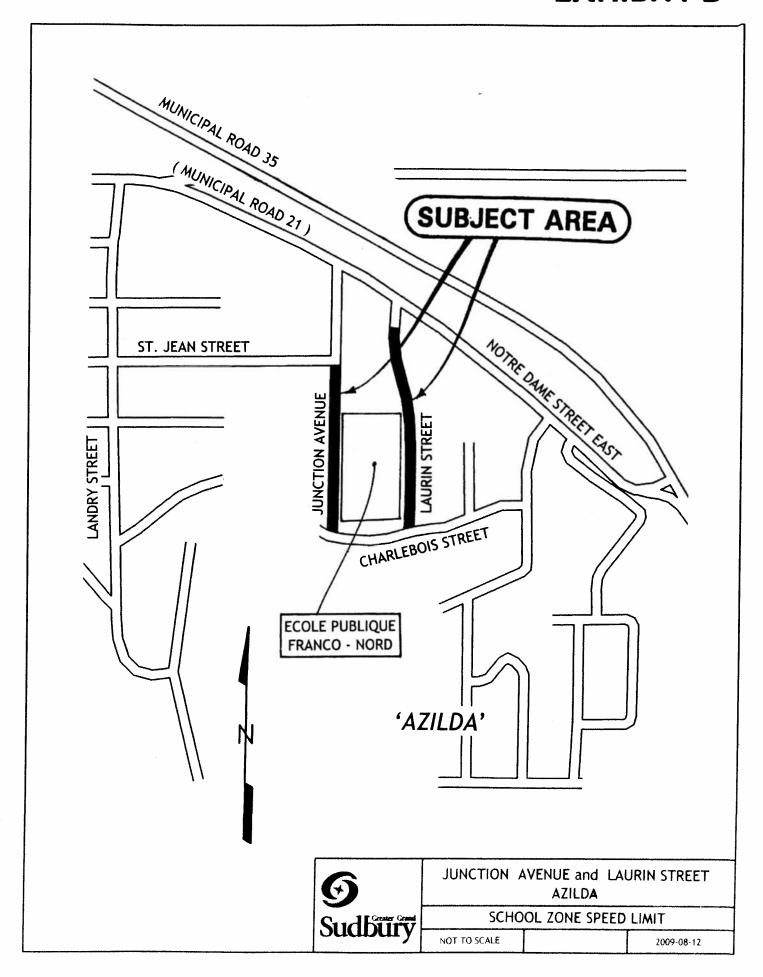
Yours sincerely,

Jean-Marc Aubin Chairperson

c.c. Trustees
Pierre Riopel, Superintendent

www.cspgno.ca

EXHIBIT: B





Type of Dec	ision											
Meeting Date August 26, 2009		Report Date	July 22, 2009)							
Recommendation		Ye	es	x	No		Priority	x High		Low		
		Directio	n O	nly			Type of Meeting	x	Open		Closed	

Report Title

	Parking Restrictions - Woodbine Avenue, Sudbury										
Ро	Iicy Implications + Budget Impact This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified		That Wood 120 And That ame the record the	t parking be prohibited on the north side of odbine Avenue from Agincourt Avenue to metres east of Agincourt Avenue. It a by-law be passed by City Council to end Traffic and Parking By-Law 2001-1 in City of Greater Sudbury to implement the emmended changes all in accordance with report from the General Manager of astructure Services dated July 22, 2009.							
X	Background attached			Recommendation attached							

Recommended by the Department Head

Clause Greg Clausen, P. Eng.

General Manager of Infrastructure Services

Recommended by the C.A.O.

Doug Nadorozny Chief Administrative Officer

Date: July 22, 2009

Report Authored By

Dave Kivi, Coordinator of Transportation and Traffic, Engineering Services

Division Review

Page: 1

Robert M. Falcioni, P. Eng.

Director of Roads and Transportation

Background:

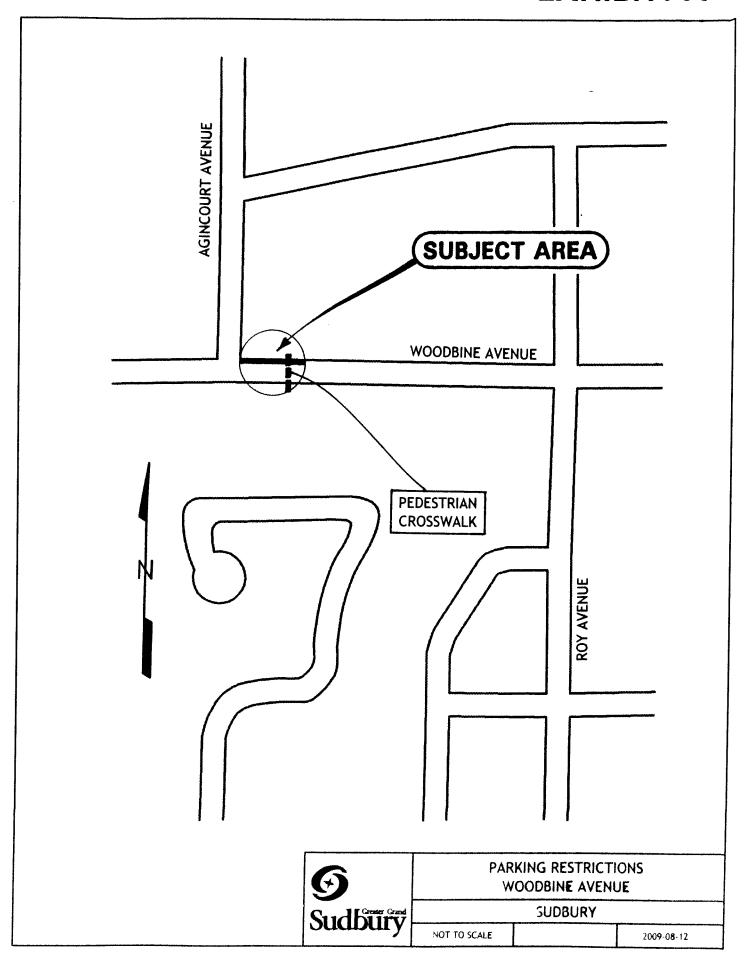
The City's Traffic and Transportation Engineering Services Section received a request at the Ward 12 New Sudbury CAN meeting on May 26th, 2009, to prohibit parking on the north side of Woodbine Avenue from Agincourt Avenue to 120 metres east of Agincourt Avenue.

Woodbine Avenue is a collector roadway (see Exhibit 'A') that is constructed to an urban standard with an asphalt surface width of ten metres and a sidewalk along the north side. The posted speed limit is 50 km/h and parking is currently allowed along both sides of the road.

It has been brought to our attention that vehicles are often parked on the north side of Woodbine Avenue, between Agincourt Avenue and the pedestrian crosswalk that is 100 metres to the east. These parked vehicles restrict visibility for vehicles exiting Agincourt Avenue and people using the pedestrian crosswalk. These problems are made worse by the vertical crest curve on Woodbine Avenue, east of the intersection.

To improve safety, we recommend that parking be prohibited along on the north side of Woodbine Avenue from Agincourt Avenue to 120 metres east of Agincourt Avenue. It is recommended that a by-law be passed to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury, to implement these changes.

EXHIBIT: A





Type of Dec	ision											
Meeting Date	August 26,	ugust 26, 2009				Report Date	July 22, 2009					
Recommendation		х	Yes		No		Priority	High			Low	
	Direction Only					Type of Meeting	Open		Closed			

Report Title

- New Traffic Signal Installations
 1) St. Anne Road, 165 m west of Notre Dame Avenue
 2) Long Lake Road and Gateway Avenue
 3) Barry Downe Road and Marcus Drive

Policy Implications + Budget Impact	Recommendation
This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified	
	That a By-Law be passed by Council of the City of Greater Sudbury to amend Traffic and Parking By-Law 2001-1 in the City of Greater Sudbury, to install three (3) new traffic signals at the following locations:
	St. Anne Road, 165 m west of Notre Dame Avenue;
	2. Long Lake Road and Gateway Avenue; and
	Barry Downe Road and Marcus Drive.

Recommended by the De	partment Head
-----------------------	---------------

aun Greg Clausen, P. Eng.

Background attached

General Manager of Infrastructure Services

Recommended by the C.A.O.

Recommendation attached

Chief Administrative Officer

Title:	New	Traffic	Signal	Installations
--------	-----	----------------	--------	---------------

Report Authored By

Dave Kivi, Coordinator of Transportation and Traffic,

Date: July xxx, 2009

Division Review

Page: 1

Robert M. Falcioni, P. Eng.

Director of Roads and Transportation

Engineering Services

Background:

As part of the City's capital construction program, new traffic signals are being constructed on Ste. Anne Road, approximately 165 metres west of Notre Dame Avenue (see Exhibit "A"). The contract for this project is currently being tendered by the City.

Also, large retail developments for SmartCentre in the south end of the city, and the Silver Hills Centre in New Sudbury, are currently under construction. The increased traffic generated by these retail expansions will result in the need for new traffic signals at the intersections of Long Lake Road and Gateway Avenue (See Exhibit "B") and Barry Downe Road and Marcus Drive (see Exhibit "C"). The contracts for these projects have been tendered by the Developers.

It is expected that these projects will be completed later this fall. An amendment to the City's Traffic and Parking By-Law 2001-1 is required to implement the new traffic signals.

EXHIBIT: A

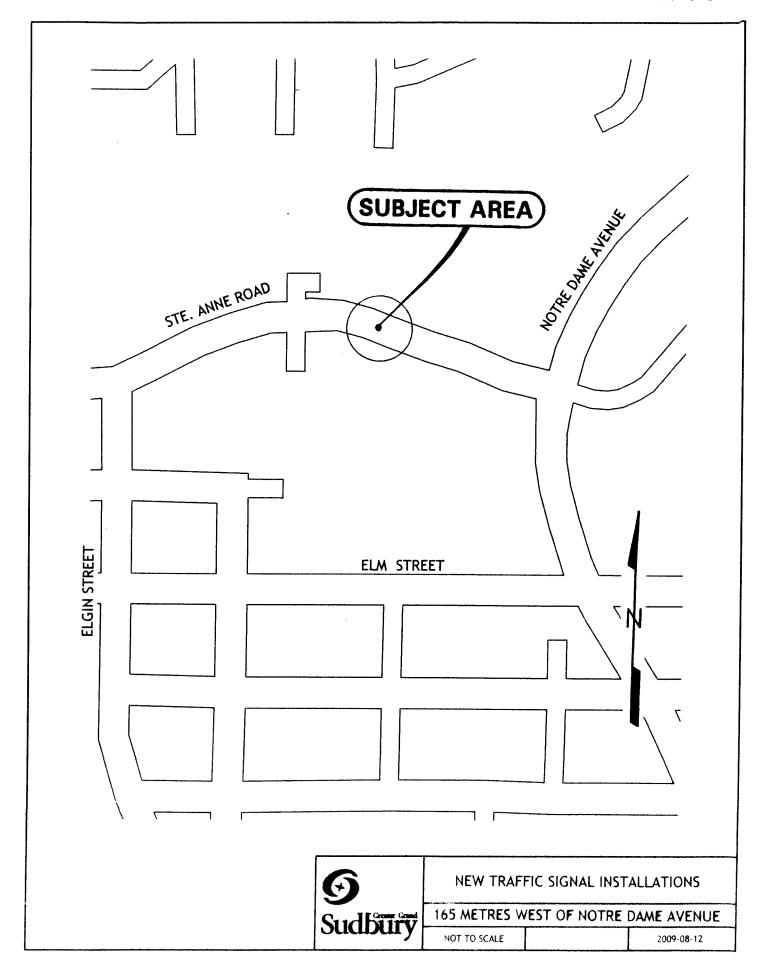


EXHIBIT: B

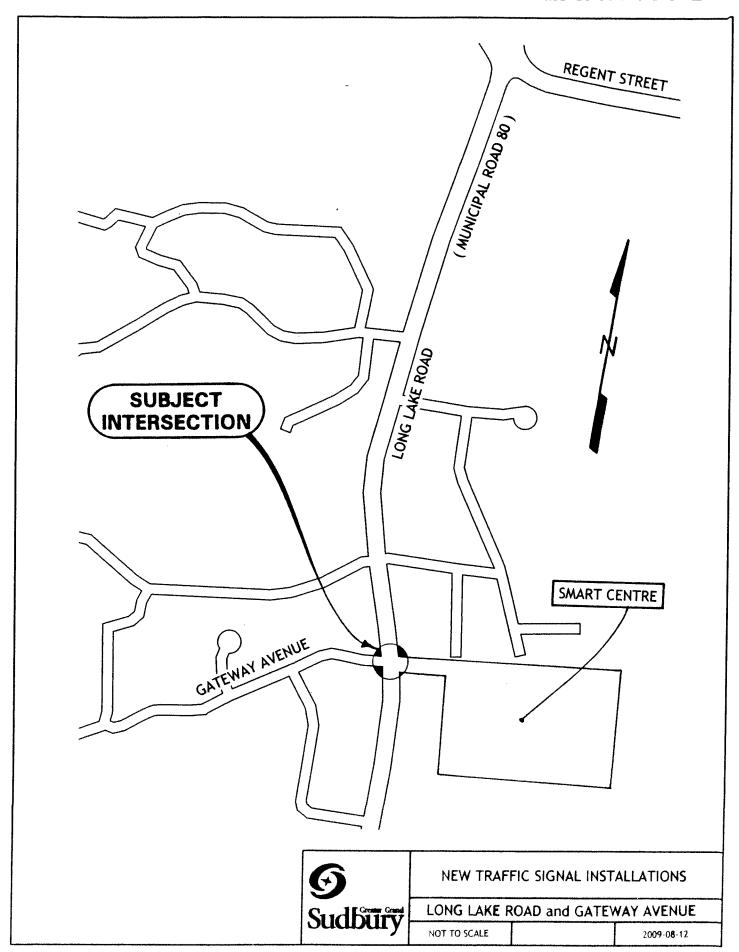


EXHIBIT: C

