

REGION OF OTTAWA-CARLETON
RÉGION D'OTTAWA-CARLETON

REPORT
RAPPORT

Our File/N/Réf. **50 20-00-0202**
Your File/V/Réf.

DATE 04 February 2000

TO/DEST. Co-ordinator Transportation Committee

FROM/EXP. Director Mobility Services and Corporate Fleet Services
 Environment and Transportation Department

SUBJECT/OBJET **1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMMES**

DEPARTMENTAL RECOMMENDATIONS

That Transportation Committee recommend Council approve:

- 1. that intersections listed in Annex A that meet 75% of the warrant requirement, be further reviewed in the Year 2000 Traffic Control Signal Programme;**
- 2. that intersections listed in Annex A that failed to meet 75% of the warrant requirement, not be reviewed in the Year 2000 Traffic Control Signal Programme unless requested by the Ward Councillor, and;**
- 3. initiation of the public consultation process to install traffic control signals at the following locations:**
 - a. Holland Avenue at Spencer Street;**
 - b. Baseline Road at Monterey Drive;**
 - c. Orleans Boulevard at Forest Valley Drive;**
 - d. Fisher Avenue at Prince of Wales Drive, and;**
 - e. Champlain Street at Regional Road 174 (westbound exit ramp/Park and Ride lot).**

BACKGROUND

This report outlines the 1998 and 1999 Traffic Control Signal Programmes. It provides the collision history, traffic survey data and warrant analysis result for each location studied, and for those sites found to meet warrants, it identifies the current status of traffic signal installation activities. It is also intended to inform Committee and Council of the status of previously approved signal installations that, for one reason or another, are not yet in place.

Intersections reviewed in traffic control signal programmes fall into one of two categories - they either meet, or do not meet, the installation warrants for those devices. Those that meet the warrants either require, or do not require, geometric changes and those that do not meet the warrants either justify, or do not justify, immediate further study.

To explain the last point further, Council (in July 1997) resolved that for these programmes, only locations that meet 75% of the warrants, justify inclusion in the following year's programme; those that do not, should not be reviewed again unless requested by the Ward Councillor.

DISCUSSION

Locations reviewed in the 1998 and 1999 Traffic Control Signal Programmes that meet the installation warrants are discussed in the body of this report. Those that do not meet the warrants are listed in descending order of warrant compliance in Annex A. Detailed results for all locations are provided in Annex B.

In keeping with Council's resolution of July 1997, it is proposed that those locations shown in Annex A that meet 75% of the warrants, be included in the Year 2000 Traffic Control Signal Programme and, those that do not, not be reviewed unless requested by the Ward Councillor.

A. Warranted Locations Requiring No Intersection Modifications

Recommended for immediate signal installation, pending completion of the public hearing process, are those locations that meet the warrants and require no geometric changes for safe and effective intersection operation. They are:

- a. Holland Avenue at Spencer Street;
- b. Baseline Road at Monterey Drive;
- c. Orleans Boulevard at Forest Valley Drive;
- d. Fisher Avenue at Prince of Wales Drive; and
- e. Champlain Street at Regional Road 174 (westbound exit ramp/Park and Ride lot).

Accordingly, it is proposed that for these sites, the public consultation process be initiated.

B. Warranted Locations Requiring Intersection Modifications

There are eight other locations that meet traffic control signal warrants; however, for safe and effective intersection operation, they require roadway modifications and street lighting. Some may also require property acquisition. Consultants have been retained to undertake the necessary design work and as quickly as preliminary designs and cost estimates become available, individual reports will be presented to Committee on a site-by-site basis for approval in principle, upon which the public hearing process may then be initiated. They are:

- a. Bank Street (Regional Road 31) at Lester Road (Regional Road 24);
- b. Dunrobin Road (Regional Road 9) at Thomas Dolan Parkway (Regional Road 46);
- c. Huntley Road (Regional Road 5) at Flewellyn Road;
- d. Carp Road (Regional Road 5) at March Road (Regional Road 49);
- e. Mitch Owens Road (Regional Road 8) at Albion Road (Regional Road 25)*;
- f. Mitch Owens Road (Regional Road 8) at Stagecoach Road (Regional Road 25)*;
- g. Albion Road (Regional Road 25) at Leitrim Road (Regional Road 14); and
- h. Cyrville Road (Regional Road 128) at Meadowbrook Road**.

* to be designed, reported on and constructed together.

** considerable public consultation required prior to preliminary design.

C. Previously Approved Locations

Construction has not yet commenced at two locations previously approved for traffic signals, both of which require roadway modifications. They are:

- a. Trim Road (Regional Road 57) at Watters Road; and
- b. Albion Road (Regional Road 25) at Rideau Road.

Developer involvement has delayed activities at Trim and Watters and property acquisition requirements have delayed work at Albion and Rideau. The former location is scheduled for completion this year; however, property issues are still unresolved at the latter.

CONSULTATION

As this report is intended purely to apprise Committee and Council of the status of intersections reviewed in the 1998 and 1999 Traffic Control Signal Programmes, public consultation efforts have not yet commenced. That activity will be conducted on a site-by-site basis. For those sites requiring public hearings, extensive public consultation will first be undertaken. This will be done through “public open houses” arranged by staff, in conjunction with the affected Ward Councillor or Councillors.

All reports for public hearings will be circulated beforehand to all Regional Councillors, the Audible Pedestrian Signal (APS) Committee and the Regional Cycling Advisory Group (RCAG) for comments.

FINANCIAL STATEMENT

Funds for warranted signals have been provided in the Year 2000 Capital Budget, Account 900431 (New Traffic Control Signals).

*Approved by
Doug Brousseau*

Attach. (2)

1998 / 1999 TRAFFIC CONTROL SIGNAL PROGRAMMES

	<u>Location</u>	<u>Percent Warranted</u>
(1)	<u>Locations At Which Further Review Is Proposed</u>	
	Lynda Lane and Smyth Road	98
	Raymond Street and Rochester Street	95
	Jeanne d'Arc Boulevard (Reg Rd 55) and des Epinettes Boulevard	93
	Jeanne d'Arc Boulevard (Reg Rd 55) and Hunters Run Drive	92
	Leitrim Road (Reg Rd 14) and Hawthorne Road	92
	Roger Stevens Drive (Reg Rd 6) and Rideau Valley Drive (Reg Rd 13) - west intersection	91
	Eagleson Road (Reg Rd 49) and Fernbank Road	89
	Mitch Owens Road (Reg Rd 8) and Manotick Station Road	87
	Fallowfield Road (Reg Rd 12) and Larkin Drive	86
	Highway 417 - eastbound exit ramp and Lees Avenue	84
	Orleans Boulevard (Reg Rd 56) and Beausejour Drive - south/ Maple Run Avenue	83
	Churchill Avenue and Scott Street	83
	Data Centre Road and Heron Road	81
	River Road (Reg Rd 19) and Limebank Road	81
	Innes Road (Reg Rd 30) and Prestwick Drive	79
	Cyrville Road (Reg Rd 128) and Maxime Street	79
	Woodroffe Avenue (Reg Rd 15) and Longfields Drive	78
	Baseline Road and Farlane Boulevard	75

(2) Locations At Which No Further Review Is Proposed

Scott Street and Western Avenue	74
Baseline Road (Reg Rd 16) and Sandcastle Drive	74
Innes Road (Reg Rd 30) and Page Road	73
Main Street (Reg Rd 5) and Hobin Street	72
Anderson Road (Reg Rd 27) and Renaud Road	73
Cedarview Road (Reg Rd 23) and Bruin Lane	61
Parkdale Avenue and Tyndall Avenue	61
Bank Street (Reg Rd 31) and St. Bernard Street	61
Banton Street and Walkley Road	60
Innes Road (Reg Rd 30) and Viseneau Drive	58
Main Street (Reg Rd 5) and Wintergreen Drive	57
Essons Street and Hunt Club Road	56
Bridge Street (Reg Rd 8) and South River Drive	56
Prince of Wales Drive (Reg Rd 73) and Amberwood Crescent	56
Ages Road and Hawthorne Road	56
Dumaurier Avenue and Richmond Road	55
Hazeldean Road (Reg Rd 36) and Iber Road	51
Carling Avenue (Reg Rd 38) and Ullswater Drive	50
Hazeldean Road (Reg Rd 36) and Sweetnam Street	43
Hunt Club Road and Pike Street	42
Lees Avenue Extension and Robinson Avenue	39
Chapel Crescent and Lees Avenue Extension	38
Jeanne d'Arc Boulevard (Reg Rd 55) and Champneuf Drive	34

<u>Location</u>	<u>Percent Warranted</u>
Melfort Street and Walkley Road	17
Tawney Road and Walkley Road	14
Main Street (Reg Rd 5) and Liard Street	13
St. Joseph Boulevard (Reg Rd 34) and Edgar Brault Street	13

1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Ages Road and Hawthorne Road	46	56	14,483	373	7	0.00	Friday 8 May 98	
Albion Road (Reg Rd 25) & Leitrim Road (Reg Rd 14)	3	100	5,605	1,454	3	1.33	Monday 31 May 99	
Albion Road (Reg Rd 25) and Mitch Owens Road (Reg Rd 8)	6	100	5,038	2,120	10	0.00	Friday 29 May 98	
Anderson Road (Reg Rd 27) and Renaud Road	36	73	2,090	1,699	3	0.00	Wednesd ay 19 May 99	
Bank Street (Reg Rd 31) and Lester (Reg Rd 24) / Davidson Roads	4	100	6,562	1,361	1	3.0	Friday 15 May 98	Signal approved 8 Dec'98 / requires intersection modification
Bank Street (Reg Rd 31) and St. Bernard Street	39	61	7,656	456	37	0.67	Tuesday 13 Jul 99	
Banton Street and Walkley Road	40	60	13,435	563	0	1.67	Thursday 3 Sep 98	

Baseline Road and Farlane Boulevard	31	75	21,780	530	24	2.67	Thursday 6 May 99	
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1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Baseline Road (Reg Rd 16) and Monterey Drive	12	100	10,862	1,113	40	0.00	Thursday 10 Jun 99	
Baseline Road (Reg Rd 16) and Sandcastle Drive	33	74	10,675	782	91	1.00	Friday 4 Jun 99	70km/h speed limit
Bridge Street (Reg Rd 8) and South River Drive	44	56	6,652	589	3	0.00	Monday 14 Jun 99	
Carling Avenue (Reg Rd 38) and Ullswater Drive	49	50	10,472	344	16	0.67	Monday 7 Jun 99	
Carp Road (Reg Rd 5) and March Road (Reg Rd 49)	2	100	3,449	1,975	1	0.00	Friday 29 May 98	existing multi-way stop controlled
Cedarview Road (Reg Rd 23) and Bruin Lane	37	61	4,937	1,242	35	0.00	Wednesday 23 Jun 99	existing multi-way stop controlled
Champlain Street (Reg Rd 39) and Regional Road 174 (old Hwy 17)	5	100	8,296	1,993	156	1.33	Friday 25 Jun 99	existing multi-way stop controlled

Chapel Crescent and Lees Avenue Extension	53	38	6,470	342	11	0.33	Friday 7 May 99	
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1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

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Churchill Avenue and Scott Street	25	83	4,066	2,855	436	0.33	Thursday 6 May 99	existing multi-way stop controlled
Cyrville Road (Reg Rd 128) and Maxime Street	29	79	5,593	875	9	0.00	Thursday 6 May 99	
Cyrville Road (Reg Rd 128) and Meadowbrook Road	8	100	8,142	1,878	48	0.00	Friday 14 May 99	
Data Centre Road and Heron Road	26	81	18,145	1,577	10	0.67	Thursday 6 May 99	
Dumaurier Street and Richmond Road	47	55	8,948	474	26	3.00	Tuesday 30 Jun 98	existing intersection pedestrian signal
Dunrobin Road (Reg Rd-9) and Thomas Dolan Parkway (Reg Rd-46)	7	100	4,402	1,054	16	2.33	Saturday 20 Jun 98	

Eagleson Road (Reg Rd 49) and Fernbank Road	20	89	6,892	843	2	0.33	Wednesd ay 16 Jun 99
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1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Esson Street and Hunt Club Road	43	56	8,701	583	7	1.00	Monday 11 May 98	
Fallowfield Road (Reg Rd 12) and Larkin Drive	22	86	5,908	881	6	0.33	Thursday 17 June 99	
Fisher Avenue (Reg Rd 69) and Prince of Wales Drive (Reg Rd 73)	13	100	14,096	23	4	0.67	Wednesd ay 5 May 99	
Hazeldean Road (Reg Rd 6) and Iber Road	48	51	9,565	760	1	0.00	Wednesd ay 15 Jun 98	
Hazeldean Road (Reg Rd 36) and Sweetnam Street	50	43	8,897	597	2	0.00	Wednesd ay 10 Jun 98	
Highway 417 eastbound exit ramp and Lees Avenue	23	84	2,925	2,340	29	2.33	Friday 21 May 99	existing multi-way stop controlled
Holland Avenue and Spencer Street	11	100	6,347	1,231	141	5.00	Friday 8 May 98	

Hunt Club Road and Pike Street	51	42	12,503	1,094	1	0.00	Tuesday 8 Jun 99	
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1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Huntley Road (Reg Rd 5) and Flewellyn Road	1	100	3,507	1,468	3	1.33	Friday 29 May 98	existing multi-way stop control
Innes Road (Reg Rd-30) and Page Road	34	73	9,975	1,018	41	3.33	Friday 5 Jun 98	overhead flashing beacon
Innes Road (Reg Rd 30) and Prestwick Drive	28	79	9,292	872	13	1.00	Tuesday 11 May 99	
Innes Road (Reg Rd-30) and Viseneau Drive	41	58	9,949	600	4	0.33	Thursday 14 May 98	
Jeanne d'Arc Boulevard (RR-34) and Champneuf Drive	54	34	6,512	467	53	0.33	Friday 12 Jun 98	
Jeanne d'Arc Boulevard (Reg Rd 55) and des Epinettes Boulevard	16	93	7,854	2,993	124	1.00	Friday 4 Jun 99	existing multi-way stop control

Jeanne d' Arc Boulevard (Reg Rd 55) and Hunters Run Drive	17	92	9,906	1,198	14	2.67	Wednesd ay 5 May 99	
Lees Avenue Extension and Robinson Avenue	52	39	5,938	354	3	0.33	Monday 31 May 99	

1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Leitrim Road (Reg Rd 14) and Hawthorne Road	18	92	3,912	2,309	5	0.67	Friday 11 Jun 99	existing multi-way stop control
Lynda Lane and Smyth Road	14	98	10,690	1,006	74	1.33	Friday 18 Jun 99	
Main Street (Reg Rd 5) and Hobin Street	35	72	9,963	681	36	0.67	Friday 5 Jun 99	
Main Street (Reg Rd-5) and Liard Street	58	13	5,829	252	5	0.00	Friday 29 May 98	
Main Street (Reg Rd-5) and Wintergreen Drive	42	57	9,078	780	12	0.33	Friday 22 May 98	
Melfort Street and	56	17	14,134	96	59	0.00	Wednesd ay 19	

Walkley Road							May 99	
Merivale Road (Reg Rd-17) and Amberwood Crescent	55	25	5,389	358	5	0.33	Monday 29 Jun 98	
Mitch Owens Road (Reg Rd 8) and Manotick Station Road	21	87	4,966	672	1	0.67	Friday 18 Jun 99	

ANNEX B

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1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Mitch Owens Road (Reg Rd 8) and Stagecoach Road (Reg Rd 25)	10	100	5,583	1,617	1	0.00	Friday 15 May 98	
Orleans Boulevard (Reg Rd 56) and Beausejour Dive south / Maple Run Avenue	24	83	6,186	1,290	110	1.00	Friday 18 Jun 99	existing multi-way stop controlled
Orleans Boulevard (Reg Rd 56) and Forest Valley Drive	9	100	7,847	1,708	65	2.33	Thursday 6 May 99	multi-way stop control installed on 2 Nov 99

Parkdale Avenue and Tyndall Avenue	38	61	12,452	1,066	40	1.00	Thursday 18 Jun 98	
Prince of Wales Drive (Reg Rd-73) and Amberwood Crescent	45	56	11,453	256	4	1.67	Monday 29 Jun 98	
Raymond Street and Rochester Street	15	95	6,485	2,466	88	3.67	Thursday 10 Jun 99	

1998/1999 TRAFFIC CONTROL SIGNAL PROGRAMME

Location	Priority Rank	Percent Warrant Met	Total Approach Volume Major Street (8 hrs)	Total Approach Volume Minor Street (8 hrs)	No. of Pedestrians Crossing Major Street (8 hrs)	No. of Preventable Collisions Average per Year (for 3 yrs 1 Jan 95-31 Dec 97)	Day and Date of Count	Comments
Roger Stevens Drive (Reg Rd 6) and Rideau Valley Drive (Reg Rd 13) - west intersection	19	91	3,104	1,227	0	0.00	Friday 18 Jun 99	existing multi-way stop controlled
River Road (Reg Rd 19) and Limebank Road	27	81	6,570	1,362	0	0.00	Friday 18 Jun 99	
Scott Street and Western Avenue	32	74	7,301	760	33	1.00	Monday 7 Jun 99	
St. Joseph Boulevard (Reg Rd 34) and Edgar Brault Street	59	13	14,218	109	12	0.00	Friday 14 May 99	
Tawney Road and Walkley Road	57	14	15,426	279	3		Wednesd ay 12 May 99	
Woodroffe Avenue (Reg Rd 15) and Longfields Drive	30	78	7,925	597	1	0.33	Thursday 10 Jun 99	