

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON  
 MUNICIPALITÉ RÉGIONALE D'OTTAWA-CARLETON

MEMORANDUM  
NOTE DE SERVICE

Our File/N/Réf.           **50 67-98-2001**  
 Your File/V/Réf.

Information Previously Distributed To be Listed on the Transportation Committee Agenda           6 May 98
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DATE                           16 April 1998

TO/DEST.                    The Chair and Members of Council

FROM/EXP.                 Director Infrastructure Maintenance Division  
 Environment and Transportation Department

SUBJECT/OBJET           **1998 RESURFACING PROGRAMME**

The Department's 1998 Resurfacing Programme was circulated in draft form to all Regional Councillors, Regional Departments, Area Municipalities, Utility Companies and the Regional Cycling Advisory Group in December 1997 and February 1998.

The finalized programme based on the comments received and follow-up investigations is outlined in Annex A. The finalized Former Provincial Highways programme is outlined in Annex B.

Pavement structural and condition information along with traffic loading data and other information is used by the Department's Pavement Management System to determine the optimum time (time that provides the lowest life cycle cost) for resurfacing work. If resurfacing is delayed beyond this optimum time, the pavement structure starts to rapidly deteriorate toward a "failed" state and road maintenance costs increase dramatically.

The most cost-effective treatment for "failed" pavement is total reconstruction. Since this costs about 10 times as much as resurfacing, it is important to carry out "preventative maintenance" work in a timely fashion.

Some road sections with "failed" pavements are included on the 1998 Resurfacing Programme due to limited reconstruction capital budgets. The objective for these pavements is to apply the most economical maintenance strategies required to keep these road sections in at least a minimal safe and passable condition pending reconstruction. Depending on the construction schedule envisioned in the Capital Budget and other variables, these strategies will range from carrying out very localized repairs (e.g. spot repairs around catchbasins and other ironworks, severe areas of cracking, etc.) to full resurfacing.

Priorities for road sections identified as requiring resurfacing in the current year are established based on cost-effectiveness. User costs and the overall road system condition are considered. Roads with larger traffic volumes involve greater user costs if the roadway is allowed to deteriorate substantially. Also, the road network as a whole must be kept to a minimum standard regardless of traffic volume. These factors are used to optimize the overall year's resurfacing programme and determine the optimum priority for each road section.

If the 1998 Resurfacing Capital Budget is insufficient to cover all of the 1998 needs, subject to the identification of further conflicts, works shown in Annexes A and B will be carried out in order of priority down to the limits of available funding.

Should insufficient funds exist to complete a prioritized location on the list, this location will be passed over and the next location(s) that can be completed within the budget allocation will be selected. For illustration purposes, based on preliminary cost estimates, a Resurfacing Budget of \$5 M would permit works to be completed at all locations (excluding those with conflicts) down to approximately rank 30 on the list shown in Annex A in 1998. Again, for illustration purposes, based on preliminary cost estimates, a Resurfacing Budget for former Provincial highways of \$1 M would permit works to be completed at all locations shown in Annex B in 1998.

The actual number of road sections that will be completed will depend on tender prices received and the budget approved. Works not constructed in 1998, due to lack of funding or due to co-ordination conflicts, will be carried over for reconsideration in the 1999 programme.

In 1998, the Department will continue to use "hot-in-place" and "cold-in-place" recycling and cold milling strategies on various projects to significantly reduce the amount of new aggregate and asphalt used (non-renewable natural resources). Also, revised quality control procedures and new asphalt materials introduced in recent years are expected to reduce life-cycle costs. Some examples of initiatives in this area include the implementation of "end-result" contract specifications, the use of "thin lift nuclear density gauges" to measure asphalt compaction, the use of polymer modified asphalts and "ultrathin high-friction asphalt mixes" and the use of "state-of-the-art" materials testing procedures and equipment. It has been found that a 1% improvement in pavement process control can increase the length of the pavement life cycle by 10%.

If you require additional information, please do not hesitate to contact the undersigned.

*Approved by*  
*W. S. Beveridge, P. Eng.*

LAR/MC/ms

Attach. ( 2 )

**REGIONAL MUNICIPALITY OF OTTAWA-CARLETON  
ENVIRONMENT AND TRANSPORTATION DEPARTMENT  
INFRASTRUCTURE MAINTENANCE DIVISION  
1998 RESURFACING PROGRAMME**

<b>PRIORITY STREET</b>	<b>FROM</b>	<b>TO</b>	<b>COMMENT</b>
1 River Rd. (RR 19)	Lewer St.	Uplands Dr.	Coordinate with measures to improve traffic safety
2 King Edward Ave. (RR 99)	Osgoode St.	Sussex Dr. (RR 93)	Coordinate with intersection modification & sewer work
3 Elgin St. (RR 91)	Pretoria Bridge	Laurier Ave.	
4 Elgin St. (RR 91)	Laurier Ave. (RR 48)	Wellington St. (RR36)	Delete – reconstruction 1998/99
5 Lyon St. (RR 81)	MacLaren St.	Wellington St. (RR 36)	Defer - detour requirements & traffic calming
6 Meadowlands Dr. (RR 51)	Woodroffe Ave. (RR 15)	Merivale Rd. (RR 17)	
7 Parkdale Ave. (RR 71)	Carling Ave. (RR 38)	Wellington St. (RR 36)	Coordinate with traffic calming
8 Parkdale Ave. (RR 71)	Wellington St. (RR 36)	Ottawa River Pkwy.	Defer - Sewer and Water Projects 1999
9 O'Connor St. (RR 87)	Isabella St. (RR 62)	Somerset St (RR 36)	Defer - detour requirements & traffic calming
10 Baseline Rd. & Heron Rd. (RR 16)	Merivale Rd. (RR 63)	Walkley Rd. (RR 74)	Includes ramps
11 River Rd & McArthur Ave.(RR 68)	Montreal Rd. (RR 34)	Enfield St.	Coordinate with Water Project
12 McArthur Ave. (RR 68)	Enfield St.	St. Laurent Blvd. (RR 26)	Coordinate with Water Project
13 Metcalfe Ave. (RR 89)	McLeod St. (RR 89)	Laurier Ave. (RR 48)	Defer – detour requirements & traffic calming
14 Rideau Valley Dr. North (RR 13)	Island View Cres. South Limit	Bankfield Rd. (RR 8)	Defer - curb, sidewalk etc. modifications by Rideau Twp.1998
15 Riverside Dr. (RR 19)	Bank St. (RR 85)	Pleasant Park Dr.	
16 Greenbank Rd. (RR 13)	Banner Rd.	Harrison St.	
17 Walkley Rd. (RR 74)	Heron Rd. (RR 16)	Melfort St.	
18 Innes Rd. (RR 30)	Old Innes Rd. (East Leg)	Orleans Blvd. (RR 56)	
19 St. Laurent Blvd. (RR 26)	Innes Rd. (RR 30)	Tremblay Rd. (RR 70)	Coordinate intersections with City of Ottawa resurfacing
20 Bank St. (RR 85)	Alta Vista Dr.	Ohio St.	
21 Hunt Club Rd. (RR 32)	West Limits Airport Pkwy.	Cahill Dr. East	Defer - conflict Airport Pkwy. Ramps 1998 & widening near Albion 199
22 Moodie Dr. (RR 59)	Nortel Entrance	Carling Ave.	
23 Merivale Rd. (RR 17)	Meadowlands Dr. (RR 51)	Rossland Ave.	
24 Richmond Rd. (RR 36)	Broadview Ave.	Athlone Ave.	Delete - RMOC Water & Ottawa sewer project 1999
25 Richmond Rd. (RR 36)	Athlone Ave.	100m West of Island Park Dr.	Delete - RMOC Water & Ottawa project 1999
26 Richmond Rd. (RR 36)	100m West of Island Park Dr.	Mayfair Ave.	Coordinate with RMOC Water & Ottawa sewer project 1998 or 1999
27 Wellington St. (RR 36)	Mayfair Ave.	Parkdale	Defer- City sewer project 2000
28 Wellington St. (RR 36)	Parkdale	Garland	
29 Ferry Rd. (RR 7)	Galetta Side Rd. (RR 22)	Ottawa River	Coordinate with culvert replacement
30 Sussex Dr. (RR 93)	E. Limit MacD. Cartier Bridge	Princess Ave.	Coordinate with NCC project, Princess to Bytown Bridge
31 Bank St. (RR 85)	Albion Rd.	Johnston Rd.	
32 Riverside Dr. & Vanier Pkwy. (RR 19)	200 m south of Smyth	Coventry Rd.	
33 Uplands Dr. (RR 107)	Alert Rd.	Hunt Club Rd. (RR 32)	
34 Blair Rd. (RR 27)	Ogilvie Rd. (RR 50)	Montreal Rd. (RR 34)	Defer – possible NRC widening at Seguin

<b>PRIORITY STREET</b>	<b>FROM</b>	<b>TO</b>	<b>COMMENT</b>	
35	Sussex Dr. (RR 93)	100 m S of Rideau St.	Murray St. (RR 82)	Defer – conflict with embassy construction
36	Merivale Rd. (RR 63)	Baseline Rd. (RR 16)	Morisset Ave.	Coordinate with widening
37	Catherine St. (RR 60)	Bronson Ave. (RR 79)	Queen Elizabeth Dr.	Defer – RMO Water & Ottawa sewer project 1999
38	Richmond Rd. (RR 36)	Acres Rd. (RR 16)	Carling Ave. (RR 38)	
39	Robertson Rd. (RR 36)	200 m East of Westcliffe	210 m East of Stinson	
40	Dwyer Hill Rd. (RR 3)	Burritts Rapids Bridge	Donnelly Rd. (RR 2)	
41	St Laurent Blvd. (RR 26)	Clarke Ave.	Guy St.	Coordinate intersections with City of Ottawa resurfacing
42	Maitland Ave. (RR 17)	Lenester Ave.	Carling Ave. (RR 38)	
43	Hunt Club Rd. (RR 32)	Riverside Dr. (RR 19)	Bowesville Rd.	
44	Ogilvie Rd. (RR 50)	Blair Rd. (RR 27)	Montreal Rd. (RR 34)	
45	River Rd. (RR 19)	Rideau Forest Dr.	Ryeburn Dr.	Defer – Intersection realignment
46	Walkley Rd. (RR 74)	Riverside Dr. (RR 19)	Bank St. (RR 85)	
47	Somerset St. W. (RR 36)	Kent St. (RR 83)	Elgin St. (RR 91)	Defer – RMO Water & Ottawa sewer project 1999
48	Russell Rd. (RR 26)	Base Line Rd. (Glouc.)	Base Line Rd. (RR 43)	
49	Leitrim Rd. (RR 14)	Bank St. (RR 85)	Base Line Rd.	
50	Russell Rd. (RR 26)	Saumure Rd. (RR 37)	RMO East Limit	
51	Russell Rd. (RR 26)	Blake Rd.	Base Line Rd. (Glouc.)	
52	Roger Stevens Dr. (RR 6)	Malakoff Rd.	McCordick Rd.	
53	Woodroffe Ave. (RR 15)	Confed. High Entrance	Majestic Dr.	Coordinate with sewer work at Majestic Dr. by City of Nepean
54	Fallowfield Rd. (RR 12)	Dwyer Hill Rd. (RR 3)	Regional Rd. 45	
55	St. Joseph Blvd. (RR 34)	Jeanne D'Arc Blvd. (RR 55)	Place D'Orleans W. Leg (RR 84)	
56	Scott St. (RR 40)	Churchill Ave. (RR 65)	Empress Ave.	
57	Thomas Dolan Pkwy. (RR 46)	Stonecrest Rd.	Dunrobin Rd. (RR 9)	
58	March Rd. (RR 49)	Klondike Rd.	Dunrobin Rd. (RR 9)	
59	Hazeldean Rd. (RR 36)	Terry Fox Dr. (RR 61)	610 m East of Castlefrank	Coordinate with RMO cathodic protection
60	Rideau St. (RR 34)	Cumberland St.	King Edward Ave. (RR 99)	
61	Laurier Ave. (RR 48)	Bronson Ave. (RR 79)	Kent St. (RR 83)	Coordinate detour conflict
62	Kirkwood Ave. (RR 67)	Carling Ave. (RR 38) WB	Richmond Rd. (RR 59)	Defer – RMO Water project 1999. Coordinate with traffic calming
63	Chamberlain Ave. (RR 62)	Bronson Ave. (RR 79)	Bank St. (RR 85)	
64	St Laurent Blvd. (RR 26)	Brittany Dr.	Hemlock Rd. (RR 44)	Coordinate intersections with City of Ottawa resurfacing
65	St. Patrick St. (RR 44)	Sussex Dr. (RR 93)	King Edward Ave. (RR 99)	
66	Innes Rd. (RR 30)	Tenth Line Rd. (RR 47)	Orchardview Ave.	Coordinate with intersection changes at Orchardview Ave.
67	Queen St. (RR 34)	Trim Rd. (RR 57)	Dunning Rd. (RR 35)	
68	Walkley Rd. (RR 74)	100m West of Hwy 417	Base Line Rd. (RR 43)	
69	Hawthorne Rd. (RR 32)	Hunt Club Rd. (RR 32)	Russell Rd. (RR 26)	Delete reconstruction 1999

**REGIONAL MUNICIPALITY OF OTTAWA-CARLETON  
ENVIRONMENT AND TRANSPORTATION DEPARTMENT  
INFRASTRUCTURE MAINTENANCE DIVISION  
1998 RESURFACING PROGRAMME – FORMER PROVINCIAL HIGHWAYS**

<b>PRIORITY</b>	<b>STREET</b>	<b>FROM</b>	<b>TO</b>	<b>COMMENT</b>
1	Old Highway 15 (RR 29)	RMOC West Boundary	Highway 17	
2	Madawaska Blvd. Old Highway 7203 (RR 117)	Highway 17	Old Highway 15 (RR 29)	
3	Old Highway 15 (RR 29) – (previously RR 118)	Highway 17	Madawaska Blvd. Old Highway 7203 (RR 117)	
4	Regional Rd. 174 Ramp	Jeanne D'Arc Blvd. Eastbound		
5	Regional Rd. 174 Ramp	Montreal Rd. Eastbound		
6	Old Highway 16 (RR 73)	Sheridan	Deakin St.	
7	Old Highway 16 (RR 73)	149 m South of Bankfield Rd. (RR 8)	Merivale Rd. (RR 17)	Coordinate with Nepean Strandherd Stormwater Facility