

## **COMMITTEE OF THE WHOLE – JUNE 17, 2002**

### **ROAD RESURFACING , ROAD RECONSTRUCTION AND RURAL ROADS UPGRADING PROGRAM**

#### **Recommendation**

The Commissioner of Engineering and Public Works recommends:

- 1) That the proposed five year road resurfacing, road reconstruction and rural road upgrade programs be endorsed in principle by Council;
- 2) That the Commissioner of Engineering and Public Works be authorized to engage external professional services for the preliminary engineering and design of the highest priority projects (Year 1, i.e., 2003 construction) of the proposed five year road programs in accordance with the approved 2002 Capital Budget and Forecast (Project Nos. 1480-0, 1449-0 and 1444-0).

#### **Purpose**

To seek Council endorsement in principle of the proposed five year (2003 – 2007) road programs and authorization to employ external professional engineering services for the preliminary engineering and design of the Year 1, i.e., 2003 construction projects of the proposed five year road programs.

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

##### **City Road System and Needs**

According to the Road Needs Study 2000 Update Report (copies previously forwarded to Mayor and Members of Council), the existing City Road System is comprised of approximately 660 kilometers (km) of road as of Jan 1, 2001. Within this system, 80 km were found to be deficient and required rehabilitation or reconstruction. An additional 50 km required resurfacing within 5 years (by 2005) to avoid further deterioration into the deficient category. The total resurfacing and rehabilitation/reconstruction expenditure to eliminate the deficiencies of the “now” and 1 – 5 year needs in the road system was estimated to be \$51 million.

From 1995 to 2000, the City road system expanded by an average of 5% per year and with the high growth rate in the past two years, the present expansion rate of the City’s road system is expected to exceed that rate in the future.

##### **Past Methodology**

The Road Needs Study 2000 Update assigned a priority rating to each road section based on an evaluation process which incorporated factors such as traffic usage/functionality, physical characteristics and road standards, physical condition specifically structural adequacy, crack density, utility cuts, settlements, potholes and drainage.

In previous years, a list of recommended locations for road resurfacing, road reconstruction and rural road upgrade was prepared each year for endorsement by Council after the Capital Budget had been approved. The lists were based on the priority ratings evaluated for each road in the Road Needs Study 2000 Update, various Council and resident requests, field inspection by staff to confirm the need for rehabilitation and the approved funding in the Capital Budget for each program in that year.

Strictly using the priority ratings in the Road Needs Study as the basis for compiling the road program lists will ensure that the required improvement on a certain road section is being performed in an order based on actual needs. However, staff find that in each year's list, the locations are scattered across the City while other roads in the same subdivision that were constructed in the same time period are inevitably omitted. These roads will normally require resurfacing or rehabilitation within the next few years of one another. With this approach, road construction works have to be carried out within a neighbourhood every few years.

During the implementation of the road programs in the past few years, both Members of Council and staff have received enquiries and complaints that other roads in the same neighbourhood were not resurfaced/rehabilitated at the same time as the ones being done. Experience also shows that it is less cost efficient to perform road resurfacing/rehabilitation on a piece-meal basis across the City than on an area basis.

### Proposed Methodology

Past road resurfacing funding levels have not been adequate to keep pace with needs and as a result, more and more roads have further deteriorated beyond repair and now require much more costly rehabilitation or even reconstruction. Furthermore, inadequate funding in the past to keep up with the road reconstruction needs have resulted in the increase in backlog of deficient roads, the further decrease in serviceability level of these roads and increased resident complaints.

In order to deal with the increasing backlog of deteriorating roads and the inefficiency of the piece-meal approach to implementation of the road programs, staff have proposed a Five Year Road Program (2003-2007) for endorsement by Council (see Attachments No. 1, 2 and 3). During the preparation of these programs, (one for Road Resurfacing, Road Reconstruction and Rural Road Upgrade) consideration was duly given to the original priority ranking in the Road Needs Study Report, the 2001 road programs endorsed by Council on June 25, 2001 and also the more cost efficient approach to address the roads that are in the same geographic vicinity that would need attention within a few years of one another. Furthermore, on-going discussions have taken place with staff of Public Works Department regarding the conditions of existing underground services such as storm and sanitary sewers and watermains. If there is also a potential need to perform substantial repairs or replacement of underground services in the near future, then the road need in those locations will be deferred to be addressed at the same time as the underground services. This will prove to be much more cost effective and also minimize the inconvenience to the residents due to the construction activities.

### Proposed Five Year Road Programs

In the report to Council on June 25, 2001, staff advised that based on the level of funding at that time of \$600,000 annually for resurfacing, it would take approximately 12 years to complete the 1 – 5 year resurfacing needs. Staff recommend that funding should be increased to \$2 million annually to keep up with the resurfacing needs. This funding level has been incorporated into the 2002 Capital Budget and Forecast. Should this level of funding not occur, we risk further deterioration of the roads to a point that much more costly rehabilitation or even reconstruction is required. (See Attachment No. 1)

There is a serious backlog of deficient roads in the City system that require rehabilitation or reconstruction in the “now” and 1 – 5 year needs. Staff recommend that adequate funding level be maintained at \$5 million per year in order to keep up with the needs and ensure that the serviceability level of the City road system will not decline drastically. (See Attachment No. 2)

There are approximately 46 km of gravel surfaced rural roads which require a substantial amount of resources for annual maintenance. The current funding level for the rural road upgrade program is \$700,000 per year to surface treat existing gravel roads to reduce annual maintenance costs and to improve the level of driving comfort. At this funding level it will take

over 15 years to complete the rural road upgrade program, which will not keep pace with the increase in suburb growth and the increase in traffic volume on these roads. Consistent with the other two road programs, staff recommend a funding level of \$2 million per year over the next five years in order to complete the rural road upgrade program within a reasonable time frame. (See Attachment No. 3)

Based on the above proposed Five Year Road Programs of \$2 million annually for road resurfacing, \$5 million annually for road reconstruction and \$2 million annually for rural road upgrade, the recommended total annual funding for capital road programs is \$9 million. It is to be noted that these five-year road programs and estimated costs are preliminary only and will be revised and updated through more detailed pre-engineering investigations and development of the Pavement Management System and Infrastructure Management System in the future.

In the 2002 Capital Budget, funding has been approved for the pre-engineering and detailed design of the proposed 2003 road resurfacing (Project No. 1449-0), road reconstruction (Project 1480-0) and rural road upgrade (Project 1444-0) works. The implementation of these programs will require employment of external professional engineering services.

### **Conclusion**

In order to keep up with the road needs, higher funding levels should be allocated to implement a five year program for road resurfacing, road reconstruction and rural road upgrade. External professional engineering services are required to assist staff in the preliminary and detail design activities.

Funding for some additional road resurfacing in 2002 is also available through re-allocation of surplus funds from recently completed capital road projects.

### **Attachments**

1. Five Year Road Programs - Road Resurfacing
2. Five Year Road Programs - Road Reconstruction
3. Five Year Road Programs - Rural Road Upgrading

### **Report prepared by:**

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Respectfully submitted,

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

PM:FL:MC

Attachment 1

| FIVE YEAR ROAD PROGRAMS - ROAD RESURFACING |                  |                 |                         |                        |                         |              |  |          |  |
|--|------------------|-----------------|-------------------------|------------------------|-------------------------|--------------|--|----------|--|
| ITEM NO.                                   | ROAD NAME        | PRIORITY RATING | FROM                    | TO                     | LENGTH TYPE OF ROAD (M) | URBAN/ RURAL | ESTIMATED COST   | COMMENTS |  |
| 1000-1                                     | WARRIE CREEK     | 24              | MARTIN GROVE RD         | MARTIN GROVE RD        | 206 LOCAL               | URBAN        | \$7,000,000 CONCRET. (INCL. IN 2001 CAP. BUD.)         |          |  |
| 1000-2                                     | BIRCH BEAVER     | 18              | TALL GRASS TRAIL        | TALL GRASS TRAIL       | 375 LOCAL               | URBAN        | \$11,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-3                                     | TALL GRASS TRAIL | 15              | WINE VALLEY DR          | WINE VALLEY DR         | 425 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-4                                     | TAMBER LAKE      | 14              | TALL GRASS TRAIL        | TALL GRASS TRAIL       | 772 LOCAL               | URBAN        | \$1,180,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.) |          |  |
| 1000-5                                     | TALL GRASS TRAIL | 14              | THIBERT LAKE            | SOUTH END              | 385 LOCAL               | URBAN        | \$15,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-6                                     | TERVAL ROAD      | 13              | WINE VALLEY DR          | SOUTH END              | 413 LOCAL               | URBAN        | \$12,500,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-7                                     | THISTLE RIDGE DR | 9               | TALL GRASS TRAIL        | TAMBER LAKE            | 285 LOCAL               | URBAN        | \$12,500,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-8                                     | ATHENA COURT     | 9               | BIRCH BEAVER OUTLOOK    | NORTH END              | 56 LOCAL                | URBAN        | \$7,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)     |          |  |
| 1000-9                                     | MIRIAM PLACE     | 7               | THIBERT LAKE            | TAMBER LAKE            | 346 LOCAL               | URBAN        | \$25,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-10                                    | JARROW DR        | 11              | WINDING AVE             | 0.2000 W OF KIPING AVE | 200 LOCAL               | URBAN        | \$8,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)     |          |  |
| 1000-11                                    | NARROW DR        | 10              | 0.2000 W OF KIPING AVE  | WEST END               | 288 LOCAL               | URBAN        | \$16,000,000 CONSTRUCTION (INCL. IN 2001 CAP. BUD.)    |          |  |
| 1000-12                                    | CHARLETTOR DR    | 27              | WINE VALLEY DR          | MEERBEEN AVE           | 360 COLLECTION          | URBAN        | \$1,180,000,000 CONCRET. (INCL. IN 2000 CAP. BUD.)     |          |  |
| 1000-13                                    | WYVERNIDE RD     | 40              | KELLY STREET            | ROCKES RD              | 776 INDUSTRIAL          | URBAN        | \$24,000,000 CONCRET. (INCL. IN 2001 BUDGET)           |          |  |
| 1000-14                                    | WYVERNIDE RD     | 38              | ROCKES RD               | CHUR TRAILS            | 205 INDUSTRIAL          | URBAN        | \$13,000,000 IN WYVERNIDE RD                           |          |  |
| 1000-15                                    | WYVERNIDE RD     | 34              | NORTH RIVERMEDE RD      | WYVERNIDE RD           | 160 INDUSTRIAL          | URBAN        | \$24,000,000 CONCRET. (INCL. IN 2001 BUDGET)           |          |  |
| 1000-16                                    | CLARENCE ST      | 32              | MEETONG HOUSE RD        | MEERBEEN RIVER         | 180 COLLECTION          | URBAN        | \$25,000,000 CONSTRUCTION                              |          |  |
| 1000-17                                    | DAVIDSON DR      | 13              | DE WINDON AVE           | ALBERT ST              | 206 LOCAL               | URBAN        | \$11,000,000 CONCRET. (INCL. WITH RECONSTRUCT)         |          |  |
| 1000-18                                    | NAVY AVE         | 12              | WINE VALLEY DR          | WINE VALLEY DR         | 402 LOCAL               | URBAN        | \$11,000,000 IN 2000 CONCRET. WITH RECONSTRUCT         |          |  |
| 1000-19                                    | ROCKE AVE        | 23              | SPIGGLASS HILL RD       | GREEN SHIELDS AVE      | 800 LOCAL               | URBAN        | \$11,000,000 IN 2000 CONSTRUCTION                      |          |  |
| 1000-20                                    | ROCKE AVE        | 14              | GREEN SHIELDS AVE       | GREEN SHIELDS AVE      | 720 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-21                                    | SPYGLASS HILL RD | 14              | GREEN SHIELDS AVE       | GREEN SHIELDS AVE      | 515 LOCAL               | URBAN        | \$7,000,000 CONSTRUCTION                               |          |  |
| 1000-22                                    | POINT O'WOODS DR | 14              | GREEN SHIELDS AVE       | QUAMER RIDGE RD        | 380 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-23                                    | QUAMER RIDGE RD  | 13              | GREEN SHIELDS AVE       | QUAMER RIDGE RD        | 320 LOCAL               | URBAN        | \$16,000,000 CONSTRUCTION                              |          |  |
| 1000-24                                    | COO HILL DRIVE   | 12              | GREEN SHIELDS AVE       | SOUTH END              | 507 LOCAL               | URBAN        | \$14,000,000 CONSTRUCTION                              |          |  |
| 1000-25                                    | LAUREL VALLEY CT | 12              | GREEN SHIELDS AVE       | WEST END               | 180 LOCAL               | URBAN        | \$24,000,000 CONSTRUCTION                              |          |  |
| 1000-26                                    | QUAMER RIDGE RD  | 10              | POINT O'WOODS DR        | EAST END               | 250 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-27                                    | WARRIE CREEK     | 8               | GREEN SHIELDS AVE       | PRINCE CHARLES PLACES  | 100 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-28                                    | TORRID PLACE     | 8               | CHERRY HILLS RD         | WORTH END              | 90 LOCAL                | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-29                                    | MAT HILL DR      | 8               | GREEN SHIELDS AVE       | WEST END               | 447 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-30                                    | WINDY TREE PLACE | 4               | GREEN SHIELDS AVE       | WEST END               | 200 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-31                                    | QUAMER RIDGE RD  | 11              | POINT O'WOODS DR        | EAST END               | 290 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-32                                    | ABBOTS LANE      | 16              | CLARENCE ST             | WEST END               | 140 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-33                                    | PARK DRIVE       | 16              | CLARENCE ST             | WEST END               | 290 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-34                                    | AUBURN RD        | 16              | MARTIN GROVE DR         | ALBERT DR              | 180 LOCAL               | URBAN        | \$14,000,000 CONSTRUCTION                              |          |  |
| 1000-35                                    | NORTH RIDGE RD   | 11              | FOREST DR               | WINDSTONE PLACE        | 385 LOCAL               | URBAN        | \$44,000,000 CONSTRUCTION                              |          |  |
| 1000-36                                    | ALBANY DR        | 9               | ADAMCOURT ROAD          | NORTH END              | 480 LOCAL               | URBAN        | \$80,000,000 CONSTRUCTION                              |          |  |
| 1000-37                                    | HOUSTON ROAD     | 9               | LUVIS DR                | WINDSTONE PLACE        | 305 LOCAL               | URBAN        | \$44,000,000 CONSTRUCTION                              |          |  |
| 1000-38                                    | ADAMCOURT RD     | 8               | ALBANY DR               | SOUTH END              | 261 LOCAL               | URBAN        | \$33,000,000 CONSTRUCTION                              |          |  |
| 1000-39                                    | OSWELL RD        | 8               | LEWIS DR                | WINDSTONE PLACE        | 180 LOCAL               | URBAN        | \$10,000,000 CONSTRUCTION                              |          |  |
| 1000-40                                    | ALBANY CREEK     | 7               | WOODBRIDGE AVE          | WOODBRIDGE AVE         | 130 LOCAL               | URBAN        | \$17,000,000 CONSTRUCTION                              |          |  |
| 1000-41                                    | FOREST DRIVE     | 20              | NASER DR                | SADDLE TREE CREEK      | 220 LOCAL               | URBAN        | \$11,000,000 CONSTRUCTION                              |          |  |
| 1000-42                                    | NASER DR         | 18              | NASER DR                | SADDLE TREE PLACE      | 390 LOCAL               | URBAN        | \$170,000,000 CONSTRUCTION                             |          |  |
| 1000-43                                    | WARRIE CREEK     | 8               | 11-15 PM W/ SADDLE TREE | SADDLE TREE PLACE      | 250 LOCAL               | URBAN        | \$14,000,000 CONSTRUCTION                              |          |  |

Attachment 1

| FIVE YEAR ROAD PROGRAMS - ROAD RESURFACING |                  |                 |                           |                        |               |              |                |                   |
|--|------------------|-----------------|---------------------------|------------------------|---------------|--------------|----------------|-------------------|
| ITEM NO.                                   | ROAD NAME        | PRIORITY RATING | FROM                      | TO                     | LENGTH (M)    | URBAN/ RURAL | ESTIMATED COST | COMMENTS          |
| R302-44                                    | MIRLA CREEK      | 7               | SAGOLE TREE CREEK         | 3.15 KM WEST           | 481 LOCAL     | URBAN        | \$17,000       | 2004 CONSTRUCTION |
| R302-45                                    | ST JAMES CT      | 8               | SAGOLE TREE CREEK         | EAST END               | 181 LOCAL     | URBAN        | \$24,000       | 2004 CONSTRUCTION |
| R302-46                                    | FORREST DRIVE    | 18              | MARTIN DRIVE RD           | HYPO CHURCH            | 229 LOCAL     | URBAN        | \$32,000       | 2004 CONSTRUCTION |
| R302-47                                    | NORTH HAVI ROAD  | 10              | FOREST DR                 | RODMAN AVE             | 279 LOCAL     | URBAN        | \$39,000       | 2004 CONSTRUCTION |
| R302-48                                    | MOONSTONE PLACE  | 3               | WOODBRIDGE AVE            | NORTH BRIDGE ROAD      | 181 LOCAL     | URBAN        | \$14,000       | 2004 CONSTRUCTION |
| R302-49                                    | CLARENCE ST      | 20              | LANCASTER RD              | 370M NORTH             | 200 COLLECTOR | URBAN        | \$47,000       | 2004 CONSTRUCTION |
| R302-50                                    | WOODBRIDGE AVE   | 11              | WOODBRIDGE AVE            | METVA HOUSE ROAD       | 401 LOCAL     | URBAN        | \$69,000       | 2004 CONSTRUCTION |
| R302-51                                    | FOREST DRIVE     | 12              | 6.13 KM N. WOODBRIDGE AVE | KASPER DRIVE           | 1.336 LOCAL   | URBAN        | \$193,000      | 2004 CONSTRUCTION |
| R302-52                                    | MOONSTONE PLACE  | 10              | WOODBRIDGE AVE            | SOUTH END              | 364 LOCAL     | URBAN        | \$44,000       | 2004 CONSTRUCTION |
| R302-53                                    | LEWIS DR         | 14              | WOODBRIDGE AVE            | SOUTH END              | 214 LOCAL     | URBAN        | \$51,000       | 2004 CONSTRUCTION |
| R302-54                                    | WALTON COURT     | 8               | WALTON AVE                | WEST END               | 337 LOCAL     | URBAN        | \$47,000       | 2004 CONSTRUCTION |
| R302-55                                    | NATIONAL DR      | 9               | PINE VALLEY DR            | EAST END               | 180 LOCAL     | RURAL        | \$39,000       | 2004 CONSTRUCTION |
| R302-56                                    | BLUM BUSH CT     | 9               | GOLF AVENUE               | NORTH END              | 181 LOCAL     | URBAN        | \$14,000       | 2004 CONSTRUCTION |
| R302-57                                    | MEDOWLAND CT     | 9               | GOLF AVENUE               | NORTH END              | 181 LOCAL     | URBAN        | \$17,000       | 2004 CONSTRUCTION |
| R302-58                                    | GREENWAY WAY     | 14              | GOLF AVENUE               | SOUTH END              | 441 LOCAL     | URBAN        | \$9,000        | 2004 CONSTRUCTION |
| R302-59                                    | ALDRICH AVE      | 14              | PINE VALLEY DR            | BERGENSE AVE           | 441 LOCAL     | URBAN        | \$4,000        | 2004 CONSTRUCTION |
| R302-60                                    | ANDREA LANE      | 12              | ASHCROFT COURT            | ARBERSON AVE           | 489 LOCAL     | URBAN        | \$55,000       | 2004 CONSTRUCTION |
| R302-61                                    | ARBERSON AVE     | 16              | JAMESBY DR                | CHANGILLON DR          | 701 LOCAL     | URBAN        | \$137,000      | 2004 CONSTRUCTION |
| R302-62                                    | ARBERSON DR      | 12              | ALDERSON AVE              | EAST OF MARCO CREEK    | 489 LOCAL     | URBAN        | \$71,000       | 2004 CONSTRUCTION |
| R302-63                                    | OLYMPIA GATE     | 9               | REBUS STREET              | EMASSY DRIVE           | 176 LOCAL     | URBAN        | \$24,000       | 2004 CONSTRUCTION |
| R302-64                                    | FLOWER LEAF ST   | 9               | ARBERSON AVE              | ARBERSON AVE           | 481 LOCAL     | URBAN        | \$73,000       | 2004 CONSTRUCTION |
| R302-65                                    | ALLESTON ROAD    | 8               | ARBERSON AVE              | WINDICE DRIVE          | 281 LOCAL     | URBAN        | \$35,000       | 2004 CONSTRUCTION |
| R302-66                                    | CHICKRY GATE     | 7               | DeBlaizer DR              | VINEYARD CT            | 529 LOCAL     | URBAN        | \$17,000       | 2004 CONSTRUCTION |
| R302-67                                    | WEDDLE POINT RD  | 7               | FLOWER LEAF ST            | FLOWER LEAF ST         | 215 LOCAL     | URBAN        | \$40,000       | 2004 CONSTRUCTION |
| R302-68                                    | ARMOURY COYS     | 7               | ARBERSON AVE              | ARBERSON DRIVE         | 201 LOCAL     | URBAN        | \$47,000       | 2004 CONSTRUCTION |
| R302-69                                    | GRANITE ST       | 6               | ARMOURY AVE               | VINEYARD CT            | 201 LOCAL     | URBAN        | \$43,000       | 2004 CONSTRUCTION |
| R302-70                                    | ASHCROFT CT      | 6               | ARBERSON AVE              | SOUTH END              | 201 LOCAL     | URBAN        | \$30,000       | 2004 CONSTRUCTION |
| R302-71                                    | WHEATK CT        | 5               | REBUS STREET              | SOUTH END              | 176 LOCAL     | URBAN        | \$11,000       | 2004 CONSTRUCTION |
| R302-72                                    | WINDICE DRIVE    | 11              | FRESHCROFT                | JULIE AVE              | 629 LOCAL     | URBAN        | \$95,000       | 2004 CONSTRUCTION |
| R302-73                                    | GOLF AVENUE      | 11              | PINE VALLEY DR            | OLDBOUSE ROAD          | 881 LOCAL     | URBAN        | \$125,000      | 2004 CONSTRUCTION |
| R302-74                                    | EMASSY DR        | 18              | CHICKRY GATE              | ARBERSON AVE           | 538 LOCAL     | URBAN        | \$82,000       | 2004 CONSTRUCTION |
| R302-75                                    | FORD DR          | 12              | 6.73 KM N. CHANGILLON     | BEELVIEW AVE           | 591 LOCAL     | URBAN        | \$93,000       | 2004 CONSTRUCTION |
| R302-76                                    | OLIVEN POINT RD  | 11              | VILLA PARK DR             | WEST END               | 206 LOCAL     | URBAN        | \$29,000       | 2004 CONSTRUCTION |
| R302-77                                    | WINDICE DR       | 12              | MONSIEUR DR               | W.19 KM E. DE MONSIEUR | 181 LOCAL     | URBAN        | \$13,000       | 2004 CONSTRUCTION |
| R302-78                                    | WINDICE DR       | 12              | BENJAMIN DR. WEST LEG     | HIGHWAY 7              | 400 LOCAL     | URBAN        | \$17,000       | 2004 CONSTRUCTION |
| R302-79                                    | JULES AVE        | 12              | JANINE DR                 | JANINE DR              | 306 LOCAL     | URBAN        | \$72,000       | 2004 CONSTRUCTION |
| R302-80                                    | JANINE DR        | 12              | VILLA PARK DR             | VILLE RD               | 361 LOCAL     | URBAN        | \$74,000       | 2004 CONSTRUCTION |
| R302-81                                    | FREDRICK STREET  | 15              | WINDICE DR                | WINDICE AVE            | 361 LOCAL     | URBAN        | \$40,000       | 2004 CONSTRUCTION |
| R302-82                                    | WINIFRETH CT     | 10              | VILLA PARK DR             | WEST END               | 173 LOCAL     | URBAN        | \$11,000       | 2004 CONSTRUCTION |
| R302-83                                    | ARMOURY STREET   | 9               | WYLLIFE AVE               | WINDICE COURT          | 50 LOCAL      | URBAN        | \$7,000        | 2004 CONSTRUCTION |
| R302-84                                    | BRIDGELAND CT. N | 6               | ARMOURY STREET            | MURPHY DR              | 181 LOCAL     | URBAN        | \$26,000       | 2004 CONSTRUCTION |
| R302-85                                    | BRIDGEND CT. S   | 7               | ARMOURY STREET            | SOUTH END              | 911 LOCAL     | URBAN        | \$13,000       | 2004 CONSTRUCTION |

Attachment 1

| FIVE YEAR ROAD PROGRAMS - ROAD RESURFACING |                     |                 |                            |                             |                         |              |                |                   |  |
|--|---------------------|-----------------|----------------------------|-----------------------------|-------------------------|--------------|----------------|-------------------|--|
| ITEM NO.                                   | ROAD NAME           | PRIORITY RATING | FROM                       | TO                          | LENGTH TYPE OF ROAD (M) | URBAN/ RURAL | ESTIMATED COST | COMMENTS          |  |
| R002-86                                    | EGGLEY BLVD.        | 37              | APPLEWOOD CRES             | S-1908 NORTH OF             | 875 INDUSTRIAL          | URBAN        | \$133,000      | 2005 CONSTRUCTION |  |
| R002-87                                    | ALBION/ALCOHOL RD.  | 37              | W JAM. N. OF HWY 90        | KIRBY RD.                   | 200 ARTERIAL            | RURAL        | \$1,000,000    | 2006 CONSTRUCTION |  |
| R002-88                                    | HUNTER LANE         | 8               | SILVERTON AVE              | EAST END                    | 545 LOCAL               | URBAN        | \$77,000       | 2005 CONSTRUCTION |  |
| R002-89                                    | HELEN ST.           | 9               | BRUCE ST.                  | HIGHWAY 7                   | 875 LOCAL               | URBAN        | \$84,000       | 2005 CONSTRUCTION |  |
| R002-90                                    | WYOM CT.            | 8               | ROSEVIEW AVE               | EAST END                    | 115 LOCAL               | URBAN        | \$18,000       | 2005 CONSTRUCTION |  |
| R002-91                                    | FRANCIS ST.         | 8               | W VALUERE PARKWAY          | MAZURKIN AVE                | 285 LOCAL               | URBAN        | \$48,000       | 2005 CONSTRUCTION |  |
| R002-92                                    | AVY PLACE           | 8               | GARDEN POST ROAD           | EAST END                    | 45 LOCAL                | URBAN        | \$8,000        | 2005 CONSTRUCTION |  |
| R002-93                                    | HEMPHRE CT.         | 8               | HELEN ST.                  | EAST END                    | 33 LOCAL                | URBAN        | \$3,000        | 2005 CONSTRUCTION |  |
| R002-94                                    | WYROSS DR.          | 11              | KAWATA                     | BEAUMER DR WEST LEG         | 285 LOCAL               | URBAN        | \$95,000       | 2005 CONSTRUCTION |  |
| R002-95                                    | MADLER CT.          | 8               | PHILLIPS LANE              | EAST END                    | 200 LOCAL               | URBAN        | \$27,000       | 2006 CONSTRUCTION |  |
| R002-96                                    | SHADY VALE LANE     | 17              | TEXTON RD                  | PHILLIPS LANE               | 345 LOCAL               | URBAN        | \$64,000       | 2006 CONSTRUCTION |  |
| R002-97                                    | HELDROW LANE        | 16              | HIGHBET ST.                | WEST END                    | 875 LOCAL               | RURAL        | \$7,000        | 2006 CONSTRUCTION |  |
| R002-98                                    | ADAMWORTH CRES      | 12              | SLINGTON AVE               | NORTH END                   | 885 LOCAL               | RURAL        | \$33,000       | 2006 CONSTRUCTION |  |
| R002-99                                    | MILLYWOOD PARKWAY   | 11              | U JAMIN N. MAJOR MACKENZIE | SUTHER N. MAJOR MACKENZIE   | 415 LOCAL               | RURAL        | \$28,000       | 2006 CONSTRUCTION |  |
| R002-100                                   | PETERMAN DRIVE      | 11              | MILLYWOOD PARKWAY          | SUTHER N. MILLYWOOD PARKWAY | 285 LOCAL               | RURAL        | \$23,000       | 2006 CONSTRUCTION |  |
| R002-101                                   | CHERRISH ST.        | 11              | ART ORME                   | SUBSQUORTH CREE.            | 345 LOCAL               | RURAL        | \$28,000       | 2006 CONSTRUCTION |  |
| R002-102                                   | HEAVY VALLEY CT.    | 11              | RIPLING AVE                | EAST END                    | 635 LOCAL               | RURAL        | \$48,000       | 2006 CONSTRUCTION |  |
| R002-103                                   | ART DR.             | 9               | ROSWORTH CRES              | NORTH END                   | 845 LOCAL               | RURAL        | \$4,000        | 2006 CONSTRUCTION |  |
| R002-104                                   | DALEYEN CT.         | 9               | PENKIN RD                  | NORTH END                   | 745 LOCAL               | RURAL        | \$7,000        | 2006 CONSTRUCTION |  |
| R002-105                                   | PUTTING GREEN CRES. | 8               | COLLSBRO RD                | COLLSBRO RD.                | 305 LOCAL               | RURAL        | \$19,000       | 2006 CONSTRUCTION |  |
| R002-106                                   | KIPJICANE           | 8               | HEAVY VALLEY CT.           | TEXTON RD.                  | 385 LOCAL               | RURAL        | \$10,000       | 2006 CONSTRUCTION |  |
| R002-107                                   | GREEN VALLEY CT.    | 8               | HEAVY VALLEY CT.           | SOUTH END                   | 685 LOCAL               | URBAN        | \$11,000       | 2006 CONSTRUCTION |  |
| R002-108                                   | PHILLIPS LANE       | 23              | WESTON RD.                 | EAST END                    | 795 LOCAL               | URBAN        | \$147,000      | 2006 CONSTRUCTION |  |
| R002-109                                   | ROSWOOD CIRCLE      | 12              | PHILLIPS LANE              | MOUTH END                   | 45 LOCAL                | URBAN        | \$7,000        | 2006 CONSTRUCTION |  |
| R002-110                                   | ROSEBORN LANE       | 12              | HODGSON LANE               | SOUTH END                   | 80 LOCAL                | URBAN        | \$14,000       | 2006 CONSTRUCTION |  |
| R002-111                                   | GREENBROOK DR       | 12              | HESTON RD                  | WEST END                    | 605 LOCAL               | URBAN        | \$71,000       | 2006 CONSTRUCTION |  |
| R002-112                                   | LUNAR CIRCLE        | 3               | SHADY VALE LANE            | WEST END                    | 45 LOCAL                | URBAN        | \$5,000        | 2006 CONSTRUCTION |  |
| R002-113                                   | NEEVER COURT        | 7               | SHADY VALE LANE            | EAST END                    | 45 LOCAL                | URBAN        | \$5,000        | 2006 CONSTRUCTION |  |
| R002-114                                   | LEE ANNE CT.        | 7               | PHILLIPS LANE              | SOUTH END                   | 80 LOCAL                | URBAN        | \$11,000       | 2006 CONSTRUCTION |  |
| R002-115                                   | SOPHY COURT         | 8               | PHILLIPS LANE              | SOUTH END                   | 105 LOCAL               | URBAN        | \$14,000       | 2006 CONSTRUCTION |  |
| R002-116                                   | CAMPBELL AVE        | 18              | WELANE CRES                | ARMKLEAVE                   | 495 LOCAL               | URBAN        | \$77,000       | 2007 CONSTRUCTION |  |
| R002-117                                   | ANDON DR.           | 18              | KEELE ST                   | SABT END                    | 845 INDUSTRIAL          | URBAN        | \$124,000      | 2007 CONSTRUCTION |  |
| R002-118                                   | JOHNS MAS CHIEF     | 14              | CENTRE ST                  | SOUTH END                   | 305 LOCAL               | RURAL        | \$18,000       | 2007 CONSTRUCTION |  |
| R002-119                                   | HAWMAN AVE          | 14              | KIPJICANE                  | EAST END                    | 345 LOCAL               | RURAL        | \$19,000       | 2007 CONSTRUCTION |  |
| R002-120                                   | MULLEN DR           | 14              | NEW WESTWATER DR           | COLVIE CRES                 | 795 LOCAL               | URBAN        | \$80,000       | 2007 CONSTRUCTION |  |
| R002-121                                   | THORNHURTY CIRCLE   | 12              | SPRING GATE BLVD           | SPRING GATE BLVD            | 345 LOCAL               | URBAN        | \$49,000       | 2007 CONSTRUCTION |  |
| R002-122                                   | BELLEBAY AVE        | 12              | HIGHWAY 7                  | SALDOWN AVE                 | 365 LOCAL               | URBAN        | \$95,000       | 2007 CONSTRUCTION |  |
| R002-123                                   | GLASS HILL BLVD     | 23              | TEXTON RD                  | 4708 NORTH                  | 415 LOCAL               | URBAN        | \$86,000       | 2007 CONSTRUCTION |  |
| R002-124                                   | ROSEBORN LANE       | 17              | TEXTON RD                  | SCOTCH RD                   | 285 INDUSTRIAL          | URBAN        | \$44,000       | 2007 CONSTRUCTION |  |
| R002-125                                   | MALMO CT            | 14              | RICHIEA RD.                | WEST END                    | 245 INDUSTRIAL          | RURAL        | \$27,000       | 2007 CONSTRUCTION |  |
| R002-126                                   | GAMAL BURN BLVD     | 9               | 4708 N OF TEXTON RD.       | MOUTH END                   | 345 LOCAL               | URBAN        | \$48,000       | 2007 CONSTRUCTION |  |
| R002-127                                   | RICHMOND ST.        | 8               | MAJOR BRUCEWAY DR.         | WEST LANE                   | 505 LOCAL               | URBAN        | \$18,000       | 2007 CONSTRUCTION |  |

Attachment 1

| FIVE YEAR ROAD PROGRAMS - ROAD RESURFACING |                |                 |                  |                      |            |              |              |                    |                   |
|--|----------------|-----------------|------------------|----------------------|------------|--------------|--------------|--------------------|-------------------|
| ITEM NO.                                   | ROAD NAME      | PRIORITY RATING | FROM             | TO                   | LENGTH (M) | TYPE OF ROAD | URBAN/ RURAL | ESTIMATED COST     | COMMENTS          |
| PS02-126                                   | WOODLAND ACRES | 11              | BATHURST ST.     | NORTH END            | 2,262      | LOCAL        | URBAN        | \$337,000          | 2007 CONSTRUCTION |
| PS02-128                                   | WALDRON AVE    | 8               | HOPEWAY F        | ROCKVIEW GARDENS AVE | 300        | LOCAL        | URBAN        | \$43,000           | 2007 CONSTRUCTION |
| PS02-130                                   | BRANDACK CR    | 10              | NORTH BAYVIEW RD | EAST END             | 230        | ROUSTRAL     | URBAN        | \$30,000           | 2007 CONSTRUCTION |
| PS02-131                                   | MILNER GATE    | 9               | MULLEN DR        | BATHURST ST          | 328        | LOCAL        | URBAN        | \$39,000           | 2007 CONSTRUCTION |
| PS02-132                                   | GILMORE CRUIE  | 7               | MULLEN DR        | MULLEN DR            | 246        | LOCAL        | URBAN        | \$45,000           | 2007 CONSTRUCTION |
| PS02-133                                   | HELEVENA CT    | 8               | PHILSDEZ AVE     | SOUTH END            | 228        | LOCAL        | URBAN        | \$70,000           | 2007 CONSTRUCTION |
|  |                |                 |                  |                      |            |              |              | <b>\$5,998,000</b> |                   |

Attachment 2

| FIVE YEAR ROAD PROGRAMS - ROAD RECONSTRUCTION |                    |                     |                         |                           |                |                 |                |  |          |
|---|--------------------|---------------------|-------------------------|---------------------------|----------------|-----------------|----------------|--|----------|
| ITEM NO.                                      | ROAD NAME          | PRIORITY<br>RANKING | FROM                    | TO                        | LENGTH<br>(MI) | TYPE OF<br>ROAD | URBAN<br>RURAL | ESTIMATED<br>COST  | COMMENTS |
| RC02-1  | CLARENCE ST.       | 31                  | NORTH OF HOOVER RD      | NORTHWEST RD              | 1.98           | LOCAL           | RURAL          | \$1,166,000,2002 CONSTRUCTION                                      |          |
| RC02-2  | BOWLES RD          | 47                  | RIVERVIEW RD            | KEELE ST                  | 1.90           | PROCTER         | RURAL          | \$28,300,2002 CONSTRUCTION   |          |
| RC02-3  | BOWLES RD          | 44                  | MIDWAY 7                | RIVERVIEW RD              | 863            | INDUSTRIAL      | RURAL          | \$394,000,2002 CONSTRUCTION  |          |
| RC02-4  | BROOKHURST RD      | 34                  | KEELE ST                | 3/4 MILE WEST OF KEELE ST | 400            | INDUSTRIAL      | RURAL          | \$314,000,2002 CONSTR. (INCL. IN 2002 CAP BUD.)                    |          |
| RC02-5  | OLD WILLE RD       | 31                  | WALLS RD                | WALLS RD                  | 209            | LOCAL           | RURAL          | \$72,300,2002 CONSTR. (INCL. IN 2002 CAP BUD.)                     |          |
| RC02-6  | LONGMEADE RD       | 34                  | WORTH ST                | WEST END                  | 364            | LOCAL           | URBAN          | \$123,000,2002 CONSTR. (INCL. IN 2002 CAP BUD.)                    |          |
| RC02-7  | LEIDON CT (ROAD)   | 34                  | 1/2 MI NORTH OF BURGESS | NORTH END                 | 165            | LOCAL           | RURAL          | \$133,000,01 V. TRIPLE SW. NEW (2002 CONSTR.)                      |          |
| RC02-8  | LONGMEADE RD       | 34                  | FOURTH ST               | WEST END                  | 864            | LOCAL           | URBAN          | \$130,000,2002 CONSTR. (INCL. IN 2002 CAP BUD.)                    |          |
| RC02-9  | WATERBURY RD       | 55                  | CHEM TOWNS              | NORTH RIVERVIEW RD        | 499            | INDUSTRIAL      | URBAN          | \$1,147,000,2002 RECONSTRUCTION PROJECT, FULCROW'S BOWERS RD, LEAP |          |
| RC02-10                                       | PINE LAKE RD EAST  | 51                  | RUMBLE RIVER            | PINE VALLEY DR            | 503            | RESIDENTIAL     | RURAL          | \$132,200,2003 CONSTRUCTION  |          |
| RC02-11                                       | WAGSTAFF RD        | 48                  | C P WINDERS             | WAGSTAFF DR               | 1400           | LOCAL           | RURAL          | \$2,141,000,2003 RECONSTRUCTION PROJECT                            |          |
| RC02-12                                       | GAMBLE ST          | 29                  | SEBASTIAN AVE           | WYVALE HEIGHTS            | 300            | LOCAL           | RURAL          | \$321,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                  |          |
| RC02-13                                       | WOODVIEW RD        | 31                  | REVERDE DR              | BIRCH HILL RD             | 107            | LOCAL           | RURAL          | \$41,300,2003 CONSTRUCTION   |          |
| RC02-14                                       | RICH HILL ROAD     | 28                  | REVERDE DR              | PINE RIDGE AVE            | 137            | LOCAL           | RURAL          | \$51,800,2003 CONSTRUCTION   |          |
| RC02-15                                       | PINE RIDGE AVE     | 28                  | WOODVIEW RD             | SOUTH END                 | 244            | LOCAL           | RURAL          | \$72,800,2003 CONSTRUCTION   |          |
| RC02-16                                       | JANEDSON DR        | 24                  | LEWIS ST                | WEST END                  | 369            | LOCAL           | RURAL          | \$153,000,2003 CONSTRUCTION  |          |
| RC02-17                                       | OLD YORUBA HT      | 31                  | CEAWE ST                | TO MIL ST                 | 262            | LOCAL           | RURAL          | \$95,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-18                                       | SHASTA DR          | 26                  | WLANDS AVE              | BURGER RD                 | 229            | LOCAL           | URBAN          | \$11,500,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-19                                       | SHASTA DR          | 9                   | BURGER DR               | LUNGBRIDGE RD             | 113            | LOCAL           | URBAN          | \$15,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-20                                       | SCHWABER DR        | 12                  | VICTORY BLVD            | KILSWAY DR                | 295            | LOCAL           | URBAN          | \$35,500,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-21                                       | WATERBURY BLVD     | 17                  | WLANDS AVE              | WAGSTAFF DR               | 162            | LOCAL           | URBAN          | \$17,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-22                                       | MEADOW HEIGHTS CT  | 18                  | INVERSIDE BLVD          | WEST END                  | 129            | LOCAL           | URBAN          | \$17,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-23                                       | WATERBURY BLVD     | 14                  | RAM. SOUTH OF INESWIFT  | LONGMEADE RD              | 228            | LOCAL           | URBAN          | \$32,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-24                                       | WAGSTAFF DR        | 14                  | WATERBURY BLVD          | LONGMEADE RD              | 166            | LOCAL           | URBAN          | \$85,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-25                                       | VICTORY BLVD       | 14                  | WLANDS AVE              | LUNGBRIDGE RD             | 343            | LOCAL           | URBAN          | \$23,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-26                                       | BURGER RD          | 14                  | YONGE ST                | SHASTA DR                 | 206            | LOCAL           | URBAN          | \$45,000,2003 CONSTR. (INCL. IN 2002 CAP BUDGET)                   |          |
| RC02-27                                       | MILL ST            | 24                  | OLD YORUBA ST           | WEST END                  | 244            | LOCAL           | RURAL          | \$45,000,2003 CONSTR. (INCL. WITH OLD YORUBA ST. L12)              |          |
| RC02-28                                       | PINE GROVE RD WEST | 18                  | SEBASTIAN AVE           | RUMBLE RIVER              | 891            | LOCAL           | RURAL          | \$174,000,2002 CONSTRUCTION  |          |
| RC02-29                                       | WLANDS AVE         | 43                  | INVERSIDE BLVD          | WEST END                  | 261            | LOCAL           | RURAL          | \$278,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)               |          |
| RC02-30                                       | HELIX AVENUE       | 27                  | YONGE ST                | REVERDE BLVD              | 346            | LOCAL           | RURAL          | \$106,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)               |          |
| RC02-31                                       | THORNHILL AVE      | 25                  | YONGE ST                | REVERDE BLVD              | 688            | LOCAL           | RURAL          | \$48,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)                |          |
| RC02-32                                       | THORNHILL AVE      | 24                  | 3/4 MI WEST OF YONGE ST | REVERDE BLVD              | 205            | LOCAL           | RURAL          | \$437,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)               |          |
| RC02-33                                       | PARKWAY AVE        | 23                  | INVERSIDE BLVD          | THORNHILL AVE             | 188            | LOCAL           | RURAL          | \$2,418,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)             |          |
| RC02-34                                       | REVERDE BLVD       | 23                  | HELIX AVE               | WLANDS AVE                | 128            | LOCAL           | RURAL          | \$1,118,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)             |          |
| RC02-35                                       | FABULA AVE         | 27                  | REVERDE BLVD            | THORNHILL AVE             | 162            | LOCAL           | RURAL          | \$2,138,000,2004 CONSTRUCTION (INCL. IN 2002 CAP BUD.)             |          |
| RC02-36                                       | NORTHMINSTER RD    | 25                  | SOUTH OF COMBE CREEK    | LANDSTAFF ROAD            | 408            | LOCAL           | URBAN          | \$47,000,000 CONSTRUCTION  |          |
| RC02-37                                       | WAVETTE RD         | 37                  | 1/2 MI N. OF OSTER LAKE | WATERBURY RD              | 228            | INDUSTRIAL      | RURAL          | \$15,000,000 CONSTRUCTION  |          |
| RC02-38                                       | WAVETTE RD         | 37                  | SCATH END               | OSTER LAKE                | 198            | INDUSTRIAL      | RURAL          | \$75,000,000 CONSTRUCTION  |          |
| RC02-39                                       | OSTER LAKE         | 28                  | WAVETTE                 | BOWLES RD                 | 425            | INDUSTRIAL      | RURAL          | \$48,000,000 CONSTRUCTION  |          |
| RC02-40                                       | SHANOCK DR         | 28                  | NORTH RIVERVIEW RD      | LONGMEADE RD              | 1,380          | INDUSTRIAL      | URBAN          | \$261,000,000 CONSTRUCTION   |          |
| RC02-41                                       | COMBE CREEK        | 23                  | LANGSTAFF RD            | W. RIVERVIEW RD           | 762            | INDUSTRIAL      | URBAN          | \$48,000,000 CONSTRUCTION  |          |
| RC02-42                                       | WAVETTE RD         | 21                  | REVERDE RD              | BOWLES RD                 | 50             | INDUSTRIAL      | URBAN          | \$48,000,000 Constructions   |          |
| RC02-43                                       | COMBE CREEK        | 27                  | WELL ST                 | WEST END                  | 879            | INDUSTRIAL      | URBAN          | \$176,000,000 CONSTRUCTION   |          |
| RC02-44                                       | GLENN VALLEY DR    | 28                  | STEVENSON AVE           | EAST END                  | 340            | LOCAL           | RURAL          | \$62,000,000 CONSTRUCTION  |          |

Attachment 2

| FIVE YEAR ROAD PROGRAMS - ROAD RECONSTRUCTION |                    |                   |                                   |                    |             |              |             |   |          |
|---|--------------------|-------------------|-----------------------------------|--------------------|-------------|--------------|-------------|---|----------|
| ITEM NO.                                      | ROAD NAME          | PRIORITY Ranking* | FROM                              | TO                 | LENGTH (MI) | TYPE OF ROAD | URBAN/RURAL | ESTIMATED COST                            | COMMENTS |
| RC02-4R                                       | BROOKE ST          | 24                | ARNOLD AVE.                       | CENTRE ST          | 300         | LOCAL        | RURAL       | \$581,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | JAME ST            | 29                | BROOKE ST                         | YONGE ST           | 188         | LOCAL        | RURAL       | \$259,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | RAYMOND DR         | 23                | THORNHEDGE DR                     | 9.8 KM NORTH       | 52          | LOCAL        | RURAL       | \$71,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | CLARIBANK STREET   | 27                | ARNOLD AVE.                       | CALVIN CHAMBERS RD | 368         | LOCAL        | RURAL       | \$418,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | STEVENSON AVE      | 26                | MARSHALL RD.                      | VALLEYVIEW CT.     | 229         | LOCAL        | RURAL       | \$80,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | THORNHEDGE DR      | 24                | BROOKE ST                         | WEST END           | 684         | LOCAL        | RURAL       | \$1,607,000,2008 CONSTRUCTION             |          |
| RC02-4R                                       | ELIZABETH ST       | 30                | THORNHEDGE DR                     | LENTRE ST          | 244         | LOCAL        | RURAL       | \$319,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | CHARLES ST         | 13                | ARNOLD AVE.                       | THORNHEDGE DR      | 183         | LOCAL        | RURAL       | \$208,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | COLDSPRING RD      | 19                | MARSHALL RD                       | SOUTH END          | 480         | LOCAL        | RURAL       | \$1,050,000,2008 CONSTRUCTION             |          |
| RC02-4R                                       | VALLEYVIEW CT      | 17                | STEVENSON AVE.                    | EAST END           | 132         | LOCAL        | RURAL       | \$41,500,2008 CONSTRUCTION                |          |
| RC02-4R                                       | BROOKE ST          | 15                | ARNOLD AVE.                       | SOUTH END          | 300         | LOCAL        | RURAL       | \$27,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | ALEN'S RD/DR       | 16                | MARSHALL RD.                      | NORTH END          | 281         | LOCAL        | RURAL       | \$83,950,2008 CONSTRUCTION                |          |
| RC02-4R                                       | CALVIN CHAMBERS RD | 12                | CLARIBANK ST.                     | 1289 WEST          | 130         | LOCAL        | RURAL       | \$140,500,2008 CONSTRUCTION               |          |
| RC02-4R                                       | HILLWOOD COURT     | 15                | HILLWOOD PARKWAY                  | EAST END           | 132         | LOCAL        | RURAL       | \$41,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | MILLWOOD PARKWAY   | 18                | MAJOR MCKENZIE DR                 | 9.4 KM NORTH       | 268         | LOCAL        | RURAL       | \$104,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | GORDON DR          | 19                | WINDY AVE                         | WEST LIMIT         | 200         | LOCAL        | RURAL       | \$27,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | BRIMONS STREET     | 17                | 2.48 KM SOUTH OF RUTHERFORD DR RD | RUTHERFORD DR RD   | 500         | LOCAL        | RURAL       | \$720,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | SARICH TRAIL RD.   | 17                | PLANTATION RD.                    | WEST END           | 860         | LOCAL        | RURAL       | \$347,000,2008 CONSTRUCTION               |          |
| RC02-4R                                       | BRIDON CR          | 17                | HIGHWAY 7                         | WEST END           | 260         | LOCAL        | RURAL       | \$72,800,2008 CONSTRUCTION                |          |
| RC02-4R                                       | BELL CT            | 16                | SUNBATH AVE                       | WEST LIMIT         | 100         | LOCAL        | RURAL       | \$24,800,2008 CONSTRUCTION                |          |
| RC02-4R                                       | MCDONALD ST        | 13                | KEBLE ST                          | SOUTH END          | 388         | LOCAL        | RURAL       | \$79,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | WOOD END PLACE     | 13                | MAJOR MCKENZIE DR                 | SOUTH END          | 280         | LOCAL        | RURAL       | \$79,000,2008 CONSTRUCTION                |          |
| RC02-4R                                       | CAREWAK HILL       | 22                | CENTRE ST                         | THORNHEDGE RD      | 282         | LOCAL        | RURAL       | \$321,000,DEFER DUE TO SAN. SEW. ISSUES   |          |
| RC02-4R                                       | ELMBANK RD         | 33                | CENTRE ST                         | THORNHEDGE RD      | 274         | LOCAL        | RURAL       | \$358,000,DEFER DUE TO SAN. SEW. ISSUES   |          |
| RC02-4R                                       | THORNHEDGE RD      | 32                | CENTRE ST                         | W. END             | 1040        | LOCAL        | RURAL       | \$4,300,000,DEFER DUE TO SAN. SEW. ISSUES |          |
| RC02-4R                                       | ERICK ROAD         | 33                | CENTRE ST                         | THORNHEDGE RD      | 282         | LOCAL        | RURAL       | \$321,000,DEFER DUE TO SAN. SEW. ISSUES   |          |
| RC02-4R                                       | HARTMAN AVE        | 17                | ELBANK AVE                        | EAST END           | 188         | LOCAL        | RURAL       | \$27,000 TO BE REFERRED TO PUBLIC WORKS   |          |
| RC02-4R                                       | MCKENZIE STREET    | 29                | HIGHWAY 7                         | EAST END           | 148         | LOCAL        | RURAL       | \$208,000,DEFER (ISOLATED)                |          |
| RC02-4R                                       | WALLACE STREET     | 24                | HIGHWAY 7                         | SOUTH END          | 160         | LOCAL        | RURAL       | \$175,000,DEFER (ISOLATED)                |          |
| RC02-4R                                       | MALLOY ST          | 22                | KEBLE ST                          | NORTH END          | 300         | INDUSTRIAL   | RURAL       | \$42,000,DEFER (ISOLATED)                 |          |
| RC02-4R                                       | SAVERDALE GATE     | 19                | STECOMAN'S HILL RD                | REYNOLDS CT.       | 52          | LOCAL        | RURAL       | \$12,000,DEFER (ISOLATED)                 |          |
| RC02-4R                                       | SAVERDALE COURT    | 19                | WEST END                          | EAST END           | 213         | LOCAL        | RURAL       | \$87,000,DEFER (ISOLATED)                 |          |
| RC02-4R                                       | MEMORIAL HILL DR.  | 18                | WALLACE ST                        | WEST LIMIT         | 100         | LOCAL        | RURAL       | \$27,000,DEFER (ISOLATED)                 |          |
|   |                    |                   |                                   |                    |             |              |             | \$23,151,000                              |          |

\*According to Rural Roads Study, 2008 Issues  
The larger the priority ranking, the greater the cost for the project

Attachment 3

| FIVE YEAR ROAD PROGRAMS - RURAL ROADS UPGRADE |                  |                 |                        |                        |            |                     |                       |   |
|---|------------------|-----------------|------------------------|------------------------|------------|---------------------|-----------------------|---|
| ITEM NO.                                      | ROAD NAME        | PRIORITY RATING | FROM                   | TO                     | LENGTH (M) | ESTIMATED COST      | PREVIOUS PRIORITY NO. | COMMENTS                                    |
| BR01-1  | KIRBY ROAD       | 32              | 1.0KM WEST OF HWY 27   | HWYWAY 27              | 1,000      | \$16,000            | N/A                   | PENDING DEVELOPMENT                         |
| BR01-2  | HUNTINGTON RD.   | 49              | FOCAL ROAD             | FOCAL ROAD             | 700        | \$16,000            | 5                     | PENDING DEVELOPMENT                         |
| BR01-3  | HUNTINGTON RD.   | 41              | FOCAL, CT              | LANSDAFF RD.           | 1,400      | \$38,000            | 5                     | PENDING DEVELOPMENT                         |
| BR01-4  | MILL ROAD        | 39              | KING VAUGHAN RD.       | KING VAUGHAN ES.       | 600        | \$50,000            | N/A                   | DEFER DUE TO LOW VOLUME OF TRAFFIC          |
| BR01-5  | KIRBY ROAD       | 39              | 0.3KM E. KIRBY AVE     | PINE VALLEY DR.        | 1,000      | \$48,000            | 11                    | 2002 CONSTRUCTION ENCL. IN 2001 CAP. (MUL.) |
| BR01-6  | KIRBY ROAD       | 39              | PINE VALLEY RD.        | STEPHANE BLVD.         | 800        | \$48,000            | N/A                   | 2002 CONSTRUCTION (MUL. IN 2001 CAP. (MUL.) |
| BR01-7  | KING VAUGHAN     | 43              | REELE ST               | DUFFERIN ST.           | 1,000      | \$48,000            | 13                    | 2003 CONSTRUCTION                           |
| BR01-8  | KING VAUGHAN     | N/A             | DUFFERIN ST.           | SATHERST SE.           | 1,500      | \$48,000            | N/A                   | 2003 CONSTRUCTION                           |
| BR01-9  | KIRBY ROAD       | 35              | 0.9KM W OF JANE ST     | JANE STREET            | 800        | \$16,000            | 10                    | 2003 CONSTRUCTION                           |
| BR01-10                                       | KIRBY ROAD       | 29              | WESTON RD.             | 1.2KM N. JANE ST.      | 900        | \$18,000            | 15                    | 2003 CONSTRUCTION                           |
| BR01-11                                       | KIRBY ROAD       | 29              | JANE STREET            | CHR. TRACKS            | 1,000      | \$34,000            | 21                    | 2003 CONSTRUCTION                           |
| BR01-12                                       | KIRBY ROAD       | 19              | CHR. TRACKS            | HEALE ST.              | 300        | \$5,000             | 21                    | 2003 CONSTRUCTION                           |
| BR01-13                                       | HUNTINGTON RD.   | 40              | WASHVILLE RD.          | 0.9KM E. KIRBY RD.     | 1,000      | \$48,000            | 9                     | 2004 CONSTRUCTION                           |
| BR01-14                                       | HUNTINGTON RD.   | 39              | LANSDAFF RD.           | RUTHERFORD RD.         | 1,500      | \$56,000            | 12                    | 2004 CONSTRUCTION                           |
| BR01-15                                       | HUNTINGTON RD.   | 31              | MALCOLM MACDONALD DR.  | WASHVILLE RD.          | 2,100      | \$48,000            | 14                    | 2004 CONSTRUCTION                           |
| BR01-16                                       | HUNTINGTON RD.   | 30              | RUTHERFORD RD.         | MCCURT MACHINISE       | 2,100      | \$60,000            | 16                    | 2004 CONSTRUCTION                           |
| BR01-17                                       | HUNTINGTON RD.   | 19              | 0.9KM S. OF KIRBY RD.  | KIRBY RD.              | 300        | \$7,000             | N/A                   | 2004 CONSTRUCTION                           |
| BR01-18                                       | KIRBY ROAD       | 41              | ALBION VAUGHAN RD.     | COLD CREEK RD.         | 200        | \$12,000            | 7                     | 2005 CONSTRUCTION                           |
| BR01-19                                       | COLD CREEK RD.   | 40              | WASHVILLE RD.          | KIRBY RD.              | 2,100      | \$42,500            | 7                     | 2005 CONSTRUCTION                           |
| BR01-20                                       | KING VAUGHAN     | 36              | ALBION VAUGHAN RD.     | COLD CREEK RD.         | 900        | \$18,000            | 10                    | 2005 CONSTRUCTION                           |
| BR01-21                                       | COLD CREEK RD.   | 32              | KIRBY ROAD             | KING VAUGHAN RD.       | 2,000      | \$42,000            | 16                    | 2005 CONSTRUCTION                           |
| BR01-22                                       | KIRBY RD.        | 29              | COLD CREEK RD.         | HUNTINGTON RD.         | 2,300      | \$1,254,000         | 27                    | 2005 CONSTRUCTION                           |
| BR01-23                                       | PINE VALLEY DR.  | 25              | KIRBY ROAD             | KING VAUGHAN RD.       | 2,100      | \$58,000            | 26                    | 2006 CONSTRUCTION                           |
| BR01-24                                       | KING VAUGHAN     | 34              | HWYWAY 27              | KIRBY AVE.             | 2,100      | \$1,260,000         | 30                    | 2006 CONST. (ANNUAL MAINTENANCE BRIDGE)     |
| BR01-25                                       | MCCALLINERAY RD. | 34              | RUTHERFORD RD.         | 1.0KM NORTH            | 1,000      | \$70,000            | 35                    | 2007 CONSTRUCTION                           |
| BR01-26                                       | KIRBY AVE.       | 32              | KIRBY ROAD             | KING VAUGHAN RD.       | 1,600      | \$37,000            | 26                    | 2007 CONSTRUCTION                           |
| BR01-27                                       | NOVA ROAD        | 31              | TESTON RD.             | KIRBY RD.              | 2,000      | \$48,000            | 32                    | 2007 CONSTRUCTION                           |
| BR01-28                                       | MCCALLINERAY RD. | 55              | 0.9KM N. RUTHERFORD    | HUNTINGTON RD.         | 300        | \$30,000            | N/A                   | 2007 CONSTRUCTION                           |
| BR01-29                                       | KING VAUGHAN     | 27              | WESTON RD.             | 0.9KM E. WESTON        | 600        | \$12,000            | N/A                   | 2007 CONSTRUCTION                           |
| BR01-30                                       | KIRBY ROAD       | 29              | STEPHANE BLVD.         | WESTON RD.             | 1,200      | \$42,000            | N/A                   | 2007 CONSTRUCTION                           |
| BR01-31                                       | KIRBY ROAD       | 19              | HWYWAY 27              | KIRBY AVE.             | 2,100      | \$41,000            | N/A                   | 2007 CONSTRUCTION                           |
| BR01-32                                       | ICE ROAD         | 20              | WASHVILLE RD.          | HUNTINGTON RD.         | 500        | \$6,000             | N/A                   | PENDING DEVELOPMENT (TO BE CLOSED)          |
| BR01-33                                       | MOJEL ROAD       | 25              | HWYWAY 27              | SOUTH END              | 400        | \$7,000             | 33                    | PUBLIC WORKS MAINTENANCE                    |
| BR01-34                                       | KIRBY AVE.       | 21              | 0.9KM S. OF COLES AVE. | 0.9KM S. OF COLES AVE. | 900        | \$8,000             | 33                    | PUBLIC WORKS MAINTENANCE                    |
|   |                  |                 |                        |                        |            | <b>\$12,087,000</b> |                       |   |