

Clerk's Files (TS.OI.TRWSIT) Originator's Files

BUDGET COMMITTEE JAN 1 3 2010

DATE:

November 30, 2009

TO:

Chair and Members of Budget Committee

Meeting Date: January 13, 2010

FROM:

Martin Powell, P. Eng.

Commissioner of Transportation and Works

SUBJECT:

Mississauga Transit Service Rationalization Recommendations and Implementation Plan for 2010 (Wards 2,3,4,6,7,8,9,10,11)

RECOMMENDATION: That the service rationalization measures and proposed

implementation plan outlined in this report dated November 30, 2009 from the Commissioner of Transportation and Works Department be

approved.

BACKGROUND:

At the June 9, 2009, Budget Committee meeting, the Transportation and Works Department submitted the report attached in Appendix 1 ("Mississauga Transit Service Reduction Recommendation for Year 2010"). This report includes maps of the routes under discussion in this report. This document recommended that the Transportation and Works Department should review the performance of certain routes included in the initial service reduction recommendations, using 2009 updated ridership and operating data to finalize the list and develop an implementation plan in accordance with the final recommendations, to be brought back to Budget Committee with substantiation of the total

achievable savings.

COMMENTS:

Service Reduction Recommendation

The following measures were initially identified as recommendations for 2010 implementation, with a forecasted result of \$270,100 savings

for the 2010 Budget:

Route Cancellation

Route 62 – Cooksville Shuttle-Webb. Whereby more than 73% of current riders (less than 100 per day) on this route could continue to commute between their place of residence and the Cooksville GO Station using already existing services (see Table 1 below), or by redesigning other routes, Mississauga Transit proposes that this poorly performing service will be scheduled for cancellation, with annualized savings of \$59,200.

Table 1

		Alternative Service				
	On the path of Route 61	Near Route 61	Forced Transfers	Abandoned	Daily Total	
Inbound from GO	36	4	5	4	49	
Station	73%	8%	10%	8%	100%	
Outbound to GO	32	1	11	0	44	
Station	73%	2%	25%	0%	100%	

Service Reduction

Route 33 Erin Centre Loop. This local community route has already been redesigned based on newly identified demand for service to-from the Streetsville GO Station. The service changes came into affect September 7, 2009 and the full year savings of \$103,000 per year will be obtained in 2010. As customer travel patterns consolidate in the catchment area, this route will continue to be evaluated by staff, but there are no current expectations of further savings in the course of 2010 for this concept.

Frequency Reductions

Late evening frequency reductions to some routes were originally identified, as follows:

- Route 31 Folkway-Homelands, from 30 to 60 minutes
- Route 44 Mississauga Road, from 30 to 45 minutes
- Route 26 Burnhamthorpe, from 17 to 19 minutes

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- Upon further examination, it became apparent that a reduction in late evening frequency on **Route 31** would have unfavourable results in terms of customer connections. This change is not recommended.
- An analysis of late evening ridership on Route 44 shows that travel pattern adjustments for the small number of riders involved (see Table 2 below) may result following a reduction of frequency. The majority of those customers originate from the university campus. The effect on connections should be negligible.

Table 2

	10:15 PM	10:45 PM	11:15 PM	11:45 PM	Total Boardings
Southbound from Meadowvale	12	3	4	10	29
	10:00 PM	10:30 PM	11:00 PM	11:30 PM	
Northbound from Westdale	8	8	11	4	31

- Changes to late evening frequency on Route 26 will be done in such a manner that any possible connection issues will be minimized by means of scheduling adjustments.
- The estimated annual savings from late evening services realignment on both Route 44 and Route 26 will produce estimated annual savings of \$142,200.

Implementation Plan

- Reduction to Route 44 evening service after 10:00 pm will be in effect as of June 28, 2010;
- Late evening frequency reductions on Route 26 will be implemented, as proposed, effective June 28, 2010;
- Cancellation of Route 62 Cooksville Shuttle-Web should take effect with the September 6, 2010 board period.

FINANCIAL IMPACT: From the initial estimation of \$270,100 of potential savings achievable in 2010, the following totals are now forecasted:

Action	Route	2010 Savings	Full Year Savings	
Service Cancellation	62	\$19,730	\$59,200	
Service Reduction	33	\$130,000	\$130,000	
Evening Frequency Adjustment	44	\$24,200	\$48,400	
Evening Frequency Adjustment	26	\$39,100	\$93,800	
Tot	als	\$213,030	\$331,400	

The difference between the results above and the original forecast of \$270,100, or \$57,070, will still be obtained through the ongoing trip/route rationalization, gapping of service improvements and/or improved efficiencies in resources allocation (bus utilization and labour force assignments), with the objective of achieving annualized savings in the amount of \$335,400 as initially envisioned.

CONCLUSION:

Mississauga Transit has completed the additional evaluation required under the Corporate Report from the Transportation and Works Department submitted to Budget Committee on June 9, 2009. That analysis resulted on a recommendation to cancel service on Route 62 Cooksville Shuttle-Webb, effective with the September 2010 board period, for annual savings of \$59,200. Additional savings have already been attained by redesigning Route 33 in 2009, and by adjusting late evening frequencies on Routes 44 Mississauga Road and Route 26 Burnhamthorpe, for a total of \$213,030 in savings during 2010, annualized to \$331,400. Further service rationalization measures across the board will produce \$57,070 bringing the total annualized savings to \$335,400.

ATTACHMENTS:

Appendix 1: Corporate Report from the Transportation and Works Department submitted to Budget Committee on June 9, 2009.

Martin Powell, P. Eng.

Commissioner, Transportation and Works

Prepared By: Gustavo Delfino

Service Development, Mississauga Transit

BUBGET COMMITTEE

JAN 1 3 2010

Appendix 1
Clerk's Files TS.OI. TRANSIT



Originator's

BUDGET COMMITTEE

JUN - 9 2009

COPY

DATE:

June 1, 2009

TO:

Chair and Members of Budget Committee

Meeting Date: June 9, 2009

FROM:

Martin Powell, P. Eng.

Commissioner, Transportation and Works

SUBJECT:

Mississauga Transit Service Reduction Recommendation for Year

2010 (Wards 2, 3, 4, 6, 7, 8, 9, 10, 11)

RECOMMENDATION

That the Transportation and Works Department undertake a detailed analysis using 2009 ridership information of service reductions outlined in the Mississauga Transit Service Reduction

Recommendation for Year 2010 report dated June 1, 2009 to Budget Committee from the Transportation and Works Department and develop an implementation plan to be brought back to Budget

Committee by year end.

BACKGROUND:

As part of its annual route performance analysis, Mississauga Transit submits this Corporate Report which documents the detailed findings of the review with the rationale for the recommendations. It follows the same process and format of the Corporate Report entitled "Mississauga Transit Service Reduction Recommendations", which was submitted to Budget Committee at the October 15, 2008 Budget

Committee Meeting.

COMMENTS:

The analysis was divided into two different categories: route

elimination and frequency reductions.

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The following discussion provides an overview of the analysis procedure and the results of these two categories.

In the report dated November 25, 2008 entitled "Mississauga Transit Final Service Reduction Recommendations & Implementation Plan", the following routes were identified for elimination in 2009:

Route 15B, 37, 37A, 43, 60, 63, 74

Therefore, the above routes were not considered in the 2010 analysis.

Route Elimination

The entire route network was analyzed for overall ridership performance and operating efficiency. Any routes that were identified as poor performing were studied further.

Given that the weekend service level and coverage of Mississauga Transit routes are minimal, the weekend routes were not considered for the route elimination.

A. Ridership Performance

In order to evaluate the ridership performance of each route, the 2008 spring ridership count data was used. Appendix 1: Weekday Daily Ridership, provides daily ridership numbers and the ranking of the routes. Based on the review of the ridership performance, the poor performing routes were identified by using a selection criterion of less than 200 passengers per day. The routes identified are 82A, 25, 64, 32 and 62.

B. Operating Efficiency

Subsidy per boarding of each route was examined to review the operating efficiency. In order to estimate the performance the system wide average cost-per-service-hour of \$108.44 and average revenueper-boarding of \$1.33 were applied. The figures are based on the 2008 annual operating statistics submitted to CUTA.

The subsidy per boarding calculation results with the ranking of the routes are provided in Appendix 2: Weekday Daily Subsidy per Boarding. The poor performing routes were identified by using a selection criterion of greater than \$4.25 per boarding. The routes identified are 25, 33, 50, 32 and 62.

The results of the review of both performance measures are summarized in the table below:

Poor Performing Routes	Regular Service	GO Shuttle Service
A. Ridership Performance	82A, 25	64, 32, 62
B. Operating Efficiency	25, 33, 50	32, 62

Route 82A was identified as a poor performing route based on ridership data but not in operating efficiency since the amount of resource required to operate this route is relatively low due to the service interlining with other unidirectional routes. Therefore, Route 82A was not considered for the route elimination proposal.

Consequently, Route 25, 32, 33, 50, 62 and 64 were analysed further with more detailed information.

C. Detailed Route Analysis

The Detailed Route Analysis presented in Appendix 3 includes investigation of the historical ridership trend over the past 5 years, the review of ridership by stop level and the availability of alternate routes. This analysis was conducted to understand the level of impact that would occur should these routes be eliminated.

According to the results of the performance review and the detailed route analysis the recommended route for elimination for Council's consideration is **Route 62 Cooksville Shuttle-Webb**.

Route 33 Erin Centre Loop is not recommended for elimination however, service reduction/rationalization is being considered to improve operating efficiency.

Frequency Reduction

The existing 2009 May service design including frequency, running time and the number of buses required were reviewed to select the routes that could accommodate service frequency reductions.

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The routes currently provide greater than 40 min. headway were not considered for the service reduction proposal since further reduction of frequency would mean essentially cancelling the service.

Our system wide route performance for peak periods and midday service is above the ridership performance standards adopted in the Ridership Growth Strategy.

In particular, reducing the service frequencies during midday service would not be beneficial for scheduling and crewing perspective since it can result in creating more split operators' work schedules that require higher operating cost due to increased non-productive hours.

The Ridership Growth Strategy outlines that the minimum service frequency standard of late evening and weekend services is 30 min for core routes and 45 min for local routes, and the minimum service frequency standard of evening service is 30 min for core and local routes. Hence, service reductions that resulted in lower than the minimum frequency standards were not considered except for those routes with minimal ridership.

Since the existing service levels of weekday evenings and weekends just meet and occasionally fail to meet the standard, any reductions would only make the situation worse. Therefore, the analysis was limited to late evening services only.

For the subsidy per boarding calculation to review the operating efficiency for the late evening services, the adjusted system wide average cost-per-service-hour of \$88.05 was applied. This rate is not a full operating cost but a labour and fuel related cost, which is 81% of the total direct operating cost. The adjustment was made to avoid overestimating the operating cost of off peak operations.

The completed Frequency Reduction Analysis table for the late evening services is provided in Appendix 4.

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The results of the frequency reduction analysis are summarized in the table below.

Frequency Reduction Proposed

Service Period	Route	Frequency	No. of Bus
Late Evening	31 Folkway-Homelands	30 min to 60 min	2 to 1
	44 Mississauga Road	30 min to 45 min	3 to 2
	26 Burnhamthorpe	17 min to 19 min	8 to 7

FINANCIAL IMPACT:

The following tables outline the potential savings should the service reductions outlined in the report be adopted.

Route Elimination

Routes	Service Type	Potential Savings
62 Cooksville Shuttle-Webb	GO Shuttle	\$ 59,200

Service Reduction

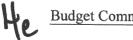
Routes	Service Type	Potential Savings
33 Erin Centre Loop	Community Local	\$ 103,000

Frequency Reduction

Routes	Service Period	Potential Savings
26 Burnhamthorpe		
31 Folkway-Homelands	Late Evening	\$ 173,200
44 Mississauga Road		

Total potential savings of \$335,400 (full year) could be realized through adoption of the service reduction proposal outlined. Implementation would have to occur in a phased manner so full year savings could not be realized. Consequently, total savings of \$270,100 are achievable in 2010.

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CONCLUSION:

Mississauga Transit has conducted a system wide review of route performance with a view towards eliminating or reducing service levels on poor performing transit routes. Based on a system wide review using the 2008 ridership count data, Mississauga Transit recommends that the following transit routes be further evaluated for service reductions using updated 2009 ridership count data:

- Route reduction/rationalization: Route 33 Erin Centre Loop
- Weekday Service Elimination: Route 62 Cooksville Shuttle-Webb
- Late Evening Frequency Reduction: Routes 26 Burnhamthorpe, 31 Folkway-Homelands and 44 Mississauga Road

Upon further review, the Transportation and Works Department will report back to Budget Committee on the feasibility and impacts associated with reducing service as outlined in this report in order to save \$270,100 in 2010.

ATTACHMENTS:

Appendix 1: Weekday Daily Ridership

Appendix 2: Weekday Daily Subsidy per Boarding

Appendix 3: Detailed Route Analysis

Appendix 4: Frequency Reduction Analysis

Appendix 5: Maps of Proposed Routes for Elimination/Reductions (Routes 62, 33, 31, 44, 26)

fartin Powell, P. Eng.

Commissioner, Transportation and Works

Prepared By: Ji-Yeon Lee, Senior Transit Planner Service Development, Mississauga Transit

APPENDIX 1 Weekday Daily Ridership

		2008 Daily	
Ranking	Routing	Daily	Status
1	19	14,565	
2	26	10,161	
3 4	3 19A	8,146 8,047	
5	19A 1C	7,894	
6	1	7,774	
7	5	5,987	
8	42	4,426	
9	7	4,397	
10	13	4,393	
11	20	3,533	
12	10	3,469	
13	110	3,231	
14	201	3,052	
15 16	23 34	3,040 2,979	
17	61	2,979	
18	38	2,663	
19	8	2,530	
20	66	2,481	4995-9-6-4
21	9	2,465	
22	5B	2,348	
23	89	2,330	
24	76	2,246	
25	202	2,154	
26	44	2,065	
27	51	2,038	
28	22	1,951	
29 30	6	1,897	
30 31	28 11	1,871 1,846	
32	35	1,763	
33	39	1,735	
34	48	1,670	
35	53	1,667	
36	45	1,554	
37	36	1,473	the painter of the late of the former of the december of the constraints and the late of t
38	61A	1,341	
39	18	1,324	
40	15	1,185	
41	4	1,166	
42	51A	1,063	
43	11A	923	
44	68	915	
45	57	882	
46	31	868	
47 48	45A 16	781 682	
49	70	622	
50	27	597	
51	12	488	
52	67	438	
53	49A	409	
54	49	405	
55	17	387	
56	30	364	
57	65	325	
58	82	281	
59	33	254	
60	47	249	
61	50	219	
62	82A	112	
63	25	99	
64	64	74	
65	32	53	
66	62	45	

APPENDIX 2 Weekday Daily Subsidy per Boarding

Ranking	Route	Daily	Status	
1	1C		29	
2	19		31	
3	19A		47	
4	3		.60	
5	1	\$ 0	63	
6	202		.73	
7	22		78	
8	5B		.81	
9	26		89	
10	20		91	
11	5		99	
12	49A		.08	
13 14	11 70		.09	
15	66		.09 .17	
16	28		20	
17	34		22	
18	89		23	
19	201		24	
20	51A		25	
21	76		25	
22	61	\$ 1	26	
23	61A	\$ 1	.28	System Wide Average
24	23	\$ 1	30	System Wide Average
25	7		32	Subsidy/Boarding = \$1.39
26	42		.35	
27	230		.45	
28	11A		.53	
29	16		.60	
30	10		.61	
31	9		.65	
32	110		.70	
33	15A		.77	
34	13		.88	
35 36	51 36		.88	
37	53		.92	
38	68		.94	
39	45A		96	
40	47		.11	
41	82		.17	
42	6		.24	
43	12		.34	
44	8		.35	
45	18	\$ 2	.41	
46	35		.42	
47	45		.43	
48	44		.57	
49	39		.59	
50	38		.65	
51	27		.68	
52	4		.69	
53	48		.18	
54 55	30 57		.24 .28	
MANAGEMENT CONTRACTOR STREET,		\$ 3	.32	
56 57	49 82A	\$ 3	.32	
58	82A 15		.38	
59	67		.73	
60	31		i,91	
61	17		.02	
62	65		.19	Subsidy/Boarding
63	25		58) = 200 (200 (200 (200 (200 (200 (200 (20	More Than \$4.25
64	50		i.65	Wore Than \$4.25
	33	\$ 10	1.28	

	20	008 Subsidy	/Boarding	
Ranking	Route	Daily	Status	
1	64	\$ 2.94		Subsidy/Boarding
2	32	\$ 5.02		More Than \$4.25
3	62	\$ 5.49		wore Than \$4.25

NOTE: GO Shuttle routes are calculated separately due to GO Transit Fare Integration

- Recommended routes for service reduction

Appendix 3

APPENDIX 3 Detailed Route Analysis

Route	Daily 08 Subsidy /Boarding	Daily 08 Boardings	Daily 07 Boardings	Daily 06 Boardings	Daily 05 Boardings	Daily 04 Boardings	Service Period	Service Type	Impacts/Comments	Alternative Options	Recommendation
									Regular Routes		
25	\$ 4.53	99	74	61	50	50	Peak	Industrial Local Feeder	historical ridership trend indicates steady and high rate of growth over the past 5 years industrial local route feeding Hurontario service and the ridership expected to grow more as Hurontario service gets improved significantly	no practical alternative options available	Remain
33	\$ 10.28	254					All Day	Community Local	- route was designed to streamline Route 34 and it is a local community route that required for the south Churchill Meadow community connecting Shopping Centre, School, Community Centre and hospital '- route rationalization is required to attract more peak period riders since peak period performance is worse than midday, and customer requests of connecting to Streetsville GO Station	Route 46 is available for Erin Centre Blvd portion during peak only and no alternative routes available for the rest of the route section	Service reduction / rationalization
50	\$ 5.65	219	214	283	264	222	Peak	Industrial Local	 route provides connection to/from Islington Subway for employees working in the Airport Corporate Centre and the route carries ridership on peak direction only and it is interlining with Route 17 future plan to change Route 17 and 50 as employment local feeder in the Airport Corporate Centre 	alternate routes are available but require number of transfers and longer walking	Remain
	Street, see the	acceveration 	in a service of the s	anis kristorijas. I			poverence.	T	GO Shuttles		
32	\$ 5.02	53					Peak	GO Shuttle	- route introduced in October 2007 when Lisgar GO Station was opened, ridership can be reached to 60 during winter time and historical trend not established yet '- ridership pattern should be monitored cautiously and no practical alternative options available	no practical alternative options available	Remain
62	\$ 5.49	45	92	87	n/a	n/a	Peak	GO Shuttle	- ridership has dropped significantly for the past 3 years and the subsidy per boarding is highest among GO Shuttle routes '- with Cooksville area local route plan revision in future, 100% of the passengers should have alternative option to access Cooksville GO Station	alternate routes available in future with Cooksville area local route plan revision	Cancel
64	\$ 2.94	. 74	101	146	n/a	n/a	Peak	GO Shuttle	Route 64 is the best performing route among all GO shuttle routes and the ridership impact would be more significant than other GO Shuttle services and no practical alternative options available. ridership has dropped significantly for the past 3 years and should be monitored cautiously	no practical alternative options available	Remain

Appendix 4

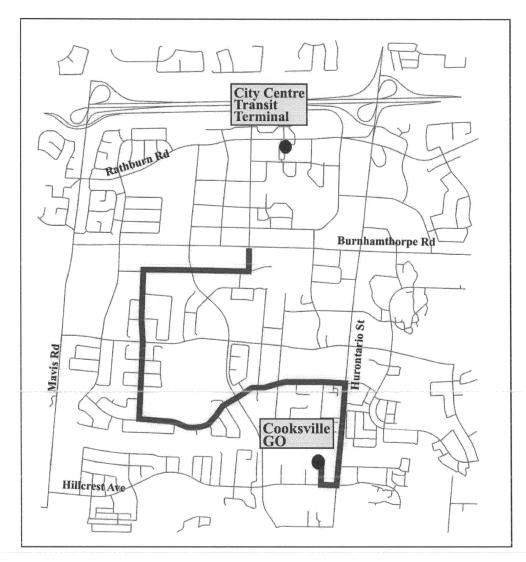
APPENDIX 4 Frequency Reduction Analysis

Ranking	Route	2008 Boardings	2008		2008 Serv Hrs	2009 Service Hours		2009 Service Design			Avg		Proposed		
			Subsidy/Boarding	Last Trip		Direction	Hwy	RTT	No. Veh	Loading	Recommendation	Frequency	Savings in Veh	Savings in Hrs	
1	19	715	\$	0.90	18.13	1:25 AM	North	20	120	6	18		1		
2	42	255	\$	1.54	8.30	12:53 AM	East	34	102	3	13				
3	11	177	\$	1,61	5.90	2:22 AM	North	36	72	2	11				
4	1C	279	\$	1.61	9.30	12:21 AM	East	28	112	4	17				
7	61	125	\$	2.74	5.78	11:58 PM	South	34	102	3	11				1
8	10	110	\$	3.01	5.42	11:35 PM	North	30	120	4	13				
9	7	211	\$	3.24	10.95	12:36 AM	North	30	120	4	13				
10	5	266	\$	3.26	13.88	1:07 AM	North	27	108	4	11				
11	26	649	\$	3.28	33.97	2:22 AM	West	17	136	8	12	Reduce Freq	19	1	4.25
12	1	415	\$	3.39	22.23	3:16 AM	East	28	112	4	9	mention and the second			
13	20	141	\$	3.46	7.67	12:44 AM	West	26	78	3	10				
14	28	70	\$	3.61	3.93	12:03 AM	South	22	44	2	6				
15	36	76	\$	3.73	4.37	2:08 AM	CCW	32	32	1	8				
16	48	164	\$	4.16	10.23	1:45 AM	North	30	60	2	5				
18	34	135	\$	4.65	9.17	1:02 AM	West	25	75	3	7				
19	16	22	\$	4.67	1.50	11:30 PM	South	30	30	1	8				
20	23	96	\$	4.74	6.62	1:20 AM	West	34	68	2	6				
21	9	101	\$	4.84	7.08	12:34 AM	North	30	90	3	9				
22	68	22	\$	5.59	1.73	11:45 PM	CW	36	36	1	6				
24	53	25	\$	5.64	1.98	11:10 PM	South	29	58	2	5				
25	66	44	\$	6.01	3.67	11:58 PM	North	28	56	2	6				
26	13	151	\$	7.63	15.37	2:01 AM	North	33	99	3	5				
28	33	22	\$	8.36	2.42	12:18 AM	West	30	30	1	4				-
29	51	50	\$	8.48	5.57	12:25 AM	North	34	68	2	4				-
30	39	42	\$	8.59	4.73	12:06 AM	West	35	105	3	5		1		
31	44	50	\$	10.24	6.57	12:17 AM	South	30	90	3	4	Reduce Freq	45	1	2.19
32	31	21	\$	10.41	2.80	11:21 PM	North	30	60	2	3	Reduce Freq	60	1 1	1.4

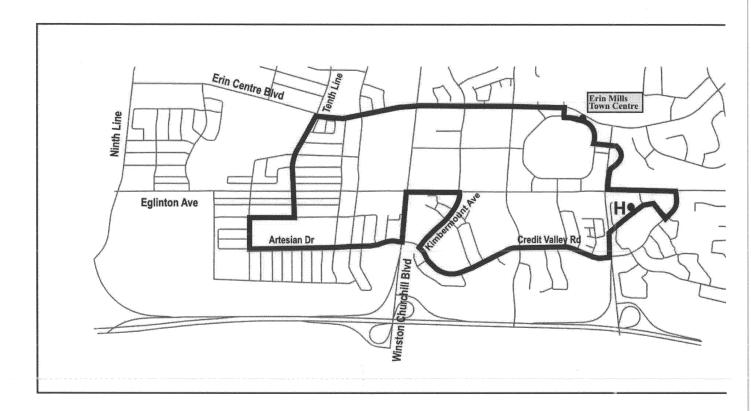
NOTE: Frequencies & # of Trips according to May 2009 Board Period

Total savings in hrs	7.84			
Total savings operating cost	\$ 173,200			

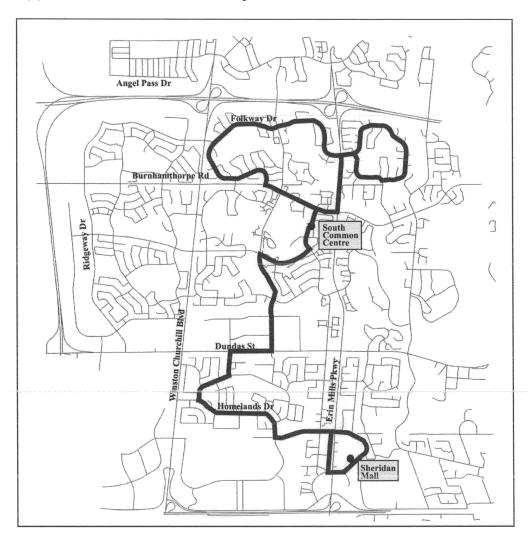
Appendix 5: Route 62 - Cooksville Shuttle-Webb



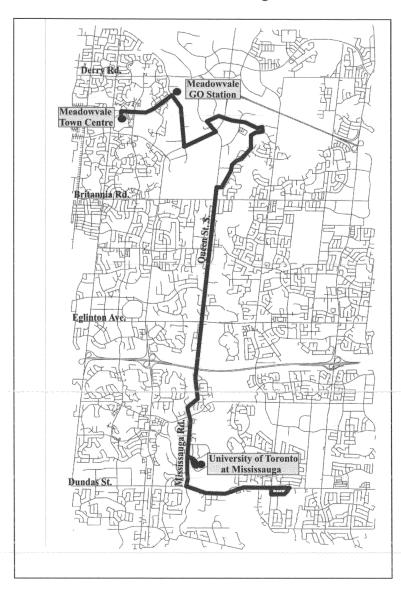
Appendix 5: Route 33 – Erin Centre Loop



Appendix 5: Route 31 – Folkway-Homelands



Appendix 5: Route 44 – Mississauga Road



Appendix 5: Route 26 – Burnhamthorpe

