

APPENDIX 'G'

Cost Estimates

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WATER SUPPLY OPTIONS
CAPITAL COST ESTIMATES**

Costs Summary

ITEM DESCRIPTION	Estimated Capital Costs
OPTION B - Service from Barrie	\$37,268,625
OPTION D - One overall system	\$25,839,063
OPTION E - Four systems	\$27,125,625
OPTION F - Three separate systems	\$25,803,125

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WATER SUPPLY OPTIONS
CAPITAL COST ESTIMATES**

**OPTION B - Service from Barrie
200 L/s (17,280 m³/d) from Barrie and retaining existing wells**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
Extension of Bayfield St. watermain 300 mm dia. from elevated tank	3,500	m	\$600	\$2,100,000
Extension of Anne St watermain 300 mm dia. from Cundles Rd.	3,500	m	\$600	\$2,100,000
Carson Rd. west trunkmain 250 mm dia.	1,500	m	\$400	\$600,000
Snow Valley Rd trunkmain 250 mm dia.	2,100	m	\$400	\$840,000
Hwy 26/27 watermain 300 mm dia. - Golf View to Finlay Mills	500	m	\$600	\$300,000
Cty Rd. 27 watermain 200 dia. - Hwy 26 to Craig Rd.	1,500	m	\$400	\$600,000
Craig Rd. watermain 200 mm dia. - Cty Rd. 27 to Gill Rd.	1,200	m	\$400	\$480,000
Doran Rd. watermain 200 mm dia. - Finlay Mills to Russell	1,700	m	\$400	\$680,000
Pooles Rd. watermain 200 mm dia.	1,000	m	\$400	\$400,000
Allowance for PRV chambers	10	ea	\$10,000	\$100,000
Storage Volume - Doran Rd. (5284 m ³)	5,284	m ³	\$500	\$2,642,000
Booster Station - Doran Rd.	1	ea	\$1,800,000	\$1,800,000
Storage Volume - Carson Rd. (3571 m ³)	3,571	m ³	\$500	\$1,785,500
Booster Station - Carson Rd.	1	ea	\$700,000	\$700,000
Anticipated supply cost (Barrie)	17,280	m ³	\$1,000	\$17,280,000
SUBTOTAL				\$32,407,500
Contingency Allowance (5%)				\$1,620,375
Engineering (10%)				\$3,240,750
TOTAL CAPITAL COST ESTIMATE				\$37,268,625

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WATER SUPPLY OPTIONS
CAPITAL COST ESTIMATES**

**OPTION D - One overall system
200 L/s and retaining existing wells (75 L/s) for a total of 275 L/s**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
Production wells along Russell Rd. and within Development Areas 1 and 2				
5 wells at 40 L/s each plus one stand-by well	240	L/s	\$30,000	\$7,200,000
Allowance for upgrades to existing distribution system to convey water from east to west	1	L.S.	\$500,000	\$500,000
Transmission main from Russell/Storrie Rd to Doran Rd. on Russell - 250 mm dia.	3,500	m	\$400	\$1,400,000
Transmission main from Russell/Forbes Rd to Water Treatment Facility - 250 mm dia.	500	m	\$400	\$200,000
Transmission main from Russell/Pooles Rd to Water Treatment Facility - 250 mm dia.	3,000	m	\$400	\$1,200,000
Carson Rd. trunk main 200 mm dia.	1500	m	400	\$600,000
Snow Valley Rd. trunk main 200 mm dia.	3700	m	400	\$1,480,000
Doran Rd. trunk main 200 mm dia.	2000	m	400	\$800,000
Pooles Rd. trunk main 200 mm dia.	1000	m	400	\$400,000
Allowance for PRV chambers	10	ea	\$10,000	\$100,000
Storage Volume - Midhurst	375	m ³	\$750	\$281,250
Booster Stations	2	ea	\$500,000	\$1,000,000
Storage Volume - Doran Rd. (5644 m3)	5,644	m ³	\$500	\$2,822,000
Booster Station and Treatment - Doran Rd.	1	ea	\$2,000,000	\$2,000,000
Storage Volume - Carson Rd. (3571 m3)	3,571	m ³	\$500	\$1,785,500
Booster Station - Carson Rd.	1	ea	\$700,000	\$700,000
SUBTOTAL				\$22,468,750
Contingency Allowance (5%)				\$1,123,438
Engineering (10%)				\$2,246,875
TOTAL ESTIMATED CAPITAL COST				\$25,839,063

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WATER SUPPLY OPTIONS
CAPITAL COST ESTIMATES**

**OPTION E - Four systems
Development Areas 1 & 2 - 130 L/s
Development Area 3 - 70 L/s**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
Anten Mills water supply				
70 L/s production well	70	L/s	\$30,000	\$2,100,000
Doran Rd. North water supply				
65 L/s production well plus 20 L/s standby	85	L/s	\$30,000	\$2,550,000
Russell Rd. North water supply				
65 L/s production well plus 20 L/s standby	85	L/s	\$30,000	\$2,550,000
Transmission main from Anten Mills to Carson Rd. Storage facility - 250 mm dia	9,500	m	\$400	\$3,800,000
Transmission main from Russell/Storrie Rd to Doran Rd. Storage facility - 250 mm dia	6,500	m	\$400	\$2,600,000
Snow Valley Rd. trunk main 200 mm dia.	3700	m	\$400	\$1,480,000
Doran Rd. trunk main 200 mm dia.	2000	m	\$400	\$800,000
Pooles Rd. trunk main 200 mm dia.	1000	m	\$400	\$400,000
Storage Volume - Doran Rd. (5644 m3)	5,644	m ³	\$500	\$2,822,000
Booster Station and Treatment - Doran Rd.	1	ea	\$2,000,000	\$2,000,000
Storage Volume - Carson Rd. (3571 m3)	3,571	m ³	\$500	\$1,785,500
Booster Station - Carson Rd.	1	ea	\$700,000	\$700,000
SUBTOTAL				\$23,587,500
Contingency Allowance (5%)				\$1,179,375
Engineering (10%)				\$2,358,750
TOTAL ESTIMATED CAPITAL COST				\$27,125,625

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WATER SUPPLY OPTIONS
CAPITAL COST ESTIMATES**

**OPTION F - Three separate systems
200 L/s and retaining existing wells (75 L/s) for a total of 275 L/s**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
Production wells on Russell Rd. at three locations, pumped to central treatment site				
5 wells at 40 L/s each plus one stand-by well	240	L/s	\$30,000	\$7,200,000
Land cost at three well sites	3	ea.	\$50,000	\$150,000
Transmission main from Russell/Storrie Rd to Water Treatment Facility - 250 mm dia.	3,500	m	\$400	\$1,400,000
Transmission main from Russell/Forbes Rd to Water Treatment Facility - 250 mm dia.	500	m	\$400	\$200,000
Transmission main from Russell/Pooles Rd to Water Treatment Facility - 250 mm dia.	3,000	m	\$400	\$1,200,000
Treated Water Transmission Main to Carson Road Storage - 200 mm dia.	5,500	m	\$400	\$2,200,000
Snow Valley Rd. trunk main 200 mm dia.	3700	m	\$400	\$1,480,000
Doran Rd. trunk main 200 mm dia.	2000	m	\$400	\$800,000
Pooles Rd. trunk main 200 mm dia.	1000	m	\$400	\$400,000
Storage Volume - Doran Rd. (5644 m3)	5,644	m ³	\$500	\$2,822,000
Booster Station and Treatment - Doran Rd.	1	ea	\$2,000,000	\$2,000,000
Storage Volume - Carson Rd. (3571 m3)	3,571	m ³	\$500	\$1,785,500
Booster Station - Carson Rd.	1	ea	\$700,000	\$700,000
Allowance for PRV chambers	10	ea	\$10,000	\$100,000
SUBTOTAL				\$22,437,500
Contingency Allowance (5%)				\$1,121,875
Engineering (10%)				\$2,243,750
TOTAL ESTIMATED CAPITAL COST				\$25,803,125

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS
CAPITAL COST ESTIMATES**

Costs Summary

ITEM DESCRIPTION	Estimated Capital Costs
OPTION B - Convey Wastewater to the City of Barrie	\$82,127,250
OPTION D - Single New Wastewater Treatment Facility	\$72,112,475
OPTION E - Three Wastewater Treatment Facilities	\$80,849,600
OPTION F - Two Wastewater Treatment Facilities	\$78,713,475
OPTION G - Single New Wastewater Treatment Facility	\$68,144,975

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS

OPTION B - Convey Wastewater to the City of Barrie

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
PS - Development Area 1 (110 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain - Development Area 1 (250 mm)	4,500	m	\$400	\$1,800,000
PS - Development Area 2 (130 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain - Development Area 2 (250 mm)	5,500	m	\$400	\$2,200,000
PS - Development Area 3 (120 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Trunk Sewer - Development Area 3 (300 mm)	2,500	m	\$600	\$1,500,000
PS - Employment Area (20 L/s PF)	1	ea	\$500,000	\$500,000
Forcemain - Employment Area (100 mm)	2,500	m	\$300	\$750,000
Pumping Station at Carson Rd. & Hwy 27 (315 L/s PF)	1	ea	\$3,000,000	\$3,000,000
Forcemain to Barrie WWTF (450 mm dia)	8,100	m	\$800	\$6,480,000
City Development Charges	10,137	m ³ /d	\$5,000	\$50,685,000
SUBTOTAL				\$71,415,000
Contingency Allowance (5%)				\$3,570,750
Engineering (10%)				\$7,141,500
TOTAL CAPITAL COST ESTIMATE				\$82,127,250

**TOWNSHIP OF SPRINGWATER
 MASTER SERVICING PLAN
 MIDHURST SECONDARY PLAN AREA**

**WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS
 CAPITAL COST ESTIMATES**

**OPTION D - Single New Wastewater Treatment Facility
 Worst Case Scenario (Option D3)**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
PS 1 (110 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	2,000	m	\$400	\$800,000
Manifolded Connection to Forcemain 2				
Forcemain 1&2 beyond MC (350 mm)	4,200	m	\$700	\$2,940,000
PS 2 (130 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	1,800	m	\$400	\$720,000
PS 9 (26.5 L/s PF)	1	ea	\$500,000	\$500,000
Forcemain (125 mm)	300	m	\$300	\$90,000
PS 10 (118 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	100	m	\$400	\$40,000
Wastewater Treatment Facility (Opt D3)	10,137	m ³ /d	\$4,500	\$45,616,500
ADF - 10,137 m ³ /d				
Effluent disposal wells (500 m ³ /d)	25	ea	\$300,000	\$7,500,000
SUBTOTAL				\$62,706,500
Contingency Allowance (5%)				\$3,135,325
Engineering (10%)				\$6,270,650
TOTAL ESTIMATED CAPITAL COST				\$72,112,475

**TOWNSHIP OF SPRINGWATER
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MIDHURST SECONDARY PLAN AREA**

**WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS
CAPITAL COST ESTIMATES**

OPTION E - Three Wastewater Treatment Facilities

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
PS 1 (110 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	100	m	\$400	\$40,000
WWT Facility 1	3,069	m ³ /d	\$5,500	\$16,879,500
ADF - 3,069 m3/d				
Effluent disposal wells (500 m3/d)	8	ea	\$300,000	\$2,400,000
WWT Facility 2	3,766	m ³ /d	\$5,500	\$20,713,000
ADF - 3,766 m3/d				
Effluent disposal wells (500 m3/d)	10	ea	\$300,000	\$3,000,000
PS 9 (26.5 L/s PF)	1	ea	\$500,000	\$500,000
Forcemain (125 mm)	300	m	\$300	\$90,000
PS 10 (118 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	100	m	\$400	\$40,000
WWT Facility 3	3,753	m ³ /d	\$5,500	\$20,641,500
ADF - 3,753 m3/d				
Effluent disposal wells (500 m3/d)	10	ea	\$300,000	\$3,000,000
SUBTOTAL				\$70,304,000
Contingency Allowance (5%)				\$3,515,200
Engineering (10%)				\$7,030,400
TOTAL ESTIMATED CAPITAL COST				\$80,849,600

**TOWNSHIP OF SPRINGWATER
 MASTER SERVICING PLAN
 MIDHURST SECONDARY PLAN AREA**

**WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS
 CAPITAL COST ESTIMATES**

OPTION F - Two Wastewater Treatment Facilities

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
PS - Development Area 1 (110 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain - Development Area 1 (250 mm)	4,000	m	\$400	\$1,600,000
WWT Facility - Area 2 (240 L/s Peak Flow)	6,835	m ³ /d	\$5,000	\$34,175,000
ADF - 6,835 m3/d				
Effluent disposal wells (500 m3/d)	18	ea	\$300,000	\$5,400,000
PS 9 (26.5 L/s PF)	1	ea	\$500,000	\$500,000
Forcemain (125 mm)	300	m	\$300	\$90,000
PS 10 (118 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	100	m	\$400	\$40,000
WWT Facility - Area 3 (140 L/s Peak Flow)	3,753	m ³ /d	\$5,500	\$20,641,500
ADF - 3,753 m3/d				
Effluent disposal wells (500 m3/d)	10	ea	\$300,000	\$3,000,000
SUBTOTAL				\$68,446,500
Contingency Allowance (5%)				\$3,422,325
Engineering (10%)				\$6,844,650
TOTAL CAPITAL COST ESTIMATE				\$78,713,475

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**WASTEWATER TREATMENT FACILITY & DISPOSAL SITE OPTIONS
CAPITAL COST ESTIMATES**

**OPTION G - Single New Wastewater Treatment Facility
Carson Road Neighbourhood - Surface water effluent disposal**

ITEM DESCRIPTION	Quantity	Unit	Unit Price	Amount
PS 1 (110 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	2,000	m	\$400	\$800,000
Manifolded Connection to Forcemain 2				
Forcemain 1&2 beyond MC (350 mm)	4,200	m	\$700	\$2,940,000
PS 2 (130 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	1,800	m	\$400	\$720,000
PS 9 (26.5 L/s PF)	1	ea	\$500,000	\$500,000
Forcemain (125 mm)	300	m	\$300	\$90,000
PS 10 (118 L/s PF)	1	ea	\$1,500,000	\$1,500,000
Forcemain (250 mm)	100	m	\$400	\$40,000
Wastewater Treatment Facility	10,137	m ³ /d	\$4,500	\$45,616,500
ADF - 10,137 m ³ /d				
Forcemain to Willow Creek (500 mm)	4500	m	\$900	\$4,050,000
SUBTOTAL				\$59,256,500
Contingency Allowance (5%)				\$2,962,825
Engineering (10%)				\$5,925,650
TOTAL ESTIMATED CAPITAL COST				\$68,144,975

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**TRANSPORTATION ALTERNATIVES
CAPITAL COST ESTIMATES**

Costs Summary

ITEM DESCRIPTION	Estimated Capital Costs
ALTERNATIVE 4 - No Hwy 400 Int w/ No Link Conn	\$68,724,910
ALTERNATIVE 5 - Partial Hwy 400 Int w/ No Link Conn	\$71,711,697
ALTERNATIVE 6 - Partial Hwy 400 Int w/ Link Conn	\$78,559,232

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**TRANSPORTATION ALTERNATIVES
CAPITAL COST ESTIMATES**

ALTERNATIVE 4 - No Hwy 400 Int w/ No Link Conn

Tentative Option of Cost for Improvement of Roads and Intersections in Midhurst Settlement Area as Recommended by Master Planning Process (2008 Construction Values)

ITEM DESCRIPTION	Length (km)		Lane	Cost/Lane/m	Amount
2-lane re-construction of Pooles Road from Old Second Rd South to Silverwood Cres. towards St. Vincent Street	2.615	U1-recons.	2	950,000	4,968,500
2-lane new construction of Forbes Road from Old Second Road to Russell Road	0.514	U1-recons.	2	950,000	976,600
	0.548	R2-new	2	715,000	783,640
2-lane new construction of Craig Road from County Road 27 to Gill Road	1.2	R2-new	2	715,000	1,716,000
from Gill Road to Russell Road	1.442	U1-new	2	950,000	2,739,800
2-lane re-construction of Walt Road from Old second Road to Russell Road	1.072	U1-recons.	2	950,000	2,036,800
2-lane re-construction of Russell Road from Forbes Road to Pooles Road	2.35	U1-recons.	2	950,000	4,465,000
2-lane re-construction of Doran Road from Russell Road to Gill Road	1.726	U1-recons.	2	950,000	3,279,400
2-lane re-construction of Finlay Mill Road	1.5	U1-recons.	2	950,000	2,850,000
2-lane re-construction of Gill Road from Craig Road to Doran Road	1.248	U1-recons.	2	950,000	2,371,200
from Belmont Cres.to Wattie Road	0.412	U1-recons.	2	950,000	782,800
2-lane re-construction of St. Vincent Street from Pooles to Jodies Lane	1.122	U1-recons.	4	950,000	4,263,600
from Jodies lane to Barrie Limit	0.869	R2-recons.	4	715,000	2,485,340
from Barrie City Limit towards Livigstone Street	1.744	R2/U2-new	4	800,000	5,580,800
Bridge allowance					1,500,000
2-lane re-construction of Carson Road from Hwy 27 to Wilson Dr.	2.819	U1-recons.	2	950,000	5,356,100
2-lane re-construction of Anne St. from Carson Road to limits of development	0.697	U1-recons.	2	950,000	1,324,300
from Limits of Development to the City of Barrie	0.565	R2-recons.	2	715,000	807,950
4-lane new construction of Wilson Drive from Snow Valley Rd. to the Barrie City limits	4	R4-new	4	715,000	11,440,000
4-lane new construction of County Road 27, from existing 4-lane to new Craig Road extension	0.728	R4-new	4	715,000	2,082,080
2-lane reconstruction of Old Second Road from Pooles Road to Walt Road	0.85	U1-recons.	2	950,000	1,615,000
Traffic Lights	9			500,000	4,500,000
Auxilliary Lanes	2			400,000	800,000
TOTAL CAPITAL COST ESTIMATE					\$68,724,910

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**TRANSPORTATION ALTERNATIVES
CAPITAL COST ESTIMATES**

ALTERNATIVE 5 - Partial Hwy 400 Int w/ No Link Conn

Tentative Option of Cost for Improvement of Roads and Intersections in Midhurst Settlement Area as Recommended by Master Planning Process (2008 Construction Values)

ITEM DESCRIPTION	Length (km)		Lane	Cost/Lane/m	Amount
2-lane re-construction of Pooles Road from Old Second Rd					
South to Silverwood Cres. towards St. Vincent Street	2.615	U1-recons.	2	950,000	4,968,500
from Old Second South to Hwy 400	1.22	R2-recons.	2	715,000	1,744,600
2-lane new construction of Forbes Road	0.514	U1-recons.	2	950,000	976,600
from Old Second Road to Russell Road	0.548	R2-new	2	715,000	783,640
2-lane new construction of Craig Road					
from County Road 27 to Gill Road	1.2	R2-new	2	715,000	1,716,000
from Gill Road to Russell Road	1.442	U1-new	2	950,000	2,739,800
2-lane re-construction of Walt Road					
from Old second Road to Russell Road	1.072	U1-recons.	2	950,000	2,036,800
2-lane re-construction of Russell Road					
from Forbes Road to Pooles Road	2.35	U1-recons.	2	950,000	4,465,000
2-lane re-construction of Doran Road					
from Russell Road to Gill Road	1.726	U1-recons.	2	950,000	3,279,400
2-lane re-construction of Finlay Mill Road					
	1.5	U1-recons.	2	950,000	2,850,000
2-lane re-construction of Gill Road					
from Craig Road to Doran Road	1.248	U1-recons.	2	950,000	2,371,200
from Belmont Cres. to Wattie Road	0.412	U1-recons.	2	950,000	782,800
2-lane re-construction of St. Vincent Street					
from Wattie to Jodies Lane	1.122	U1-recons.	2	950,000	2,131,800
from Jodies Lane to Barrie City limit	0.869	R2-recons.	2	715,000	1,242,670
Bridge allowance					1,500,000
2-lane re-construction of Carson Road from Hwy 27 to Wilson Dr.					
	2.819	U1-recons.	2	950,000	5,356,100
2-lane re-construction of Anne St.					
from Carson Road to limits of development	0.697	U1-recons.	2	950,000	1,324,300
from Limits of Development to the City of Barrie	0.565	R2-recons.	2	715,000	807,950
4-lane new construction of Wilson Drive					
from Snow Valley Rd. to the Barrie limit	4	R4-new	4	715,000	11,440,000
4-lane new construction of County Road 27,					
from existing 4-lane to new Craig Road extension	0.728	R4-new	4	715,000	2,082,080
2-lane reconstruction of Old Second Road					
from Pooles Road to Walt Road	0.85	U1-recons.	2	950,000	1,615,000
New interchange at Pooles Road with Highway 400					10,197,457
Traffic Lights	9			500,000	4,500,000
Auxilliary Lanes	2			400,000	800,000
TOTAL ESTIMATED CAPITAL COST					\$71,711,697

**TOWNSHIP OF SPRINGWATER
MASTER SERVICING PLAN
MIDHURST SECONDARY PLAN AREA**

**TRANSPORTATION ALTERNATIVES
CAPITAL COST ESTIMATES**

ALTERNATIVE 6 - Partial Hwy 400 Int w/ Link Conn

Tentative Option of Cost for Improvement of Roads and Intersections in Midhurst Settlement Area as Recommended by Master Planning Process (2008 Construction Values)

ITEM DESCRIPTION	Length (km)		Lane	Cost/Lane/m	Amount
2-lane re-construction of Pooles Road from Old Second Road South to Silverwood Cres. towards St. Vincent Street	2.615	U1-recons.	2	\$950,000	\$4,968,500
From Old Second South to Hwy 400	1.22	R2-recons.	2	\$715,000	\$1,744,600
2-lane new construction of Forbes Road from Old Second Road to Russell Road	0.514	U1-recons.	2	\$950,000	\$976,600
	0.548	R2-new	2	\$715,000	\$783,640
2-lane new construction of Craig Road from County Road 27 to Gill Road	1.2	R2-new	2	\$715,000	\$1,716,000
from Gill Road to Russell Road	1.442	U1-new	2	\$950,000	\$2,739,800
2-lane re-construction of Walt Road from Old second Road to Russell Road	1.072	U1-recons.	2	\$950,000	\$2,036,800
2-lane re-construction of Russell Road from Forbes Road to Pooles Road	2.35	U1-recons.	2	\$950,000	\$4,465,000
2-lane re-construction of Doran Road from Russell Road to Gill Road	1.726	U1-recons.	2	\$950,000	\$3,279,400
2-lane re-construction of Finlay Mill Road	1.5	U1-recons.	2	\$950,000	\$2,850,000
2-lane re-construction of Gill Road from Craig Road to Doran Road	1.248	U1-recons.	2	\$950,000	\$2,371,200
2-lane new construction from Doran Road to Wattie Road	0.478	U1-new	2	\$950,000	\$908,200
	0.412	U1-recons.	2	\$950,000	\$782,800
Allowance for slope/retaining walls					\$400,000
2-lane re-construction of St. Vincent Road from Wattie to Jodies Lane	1.122	U1-recons.	2	\$950,000	\$2,131,800
From Jodies Lane to Barrie City limits	0.869	R2-recons.	2	\$715,000	\$1,242,670
Bridge allowance					\$1,500,000
2-lane re-construction of Carson Road from Hwy 27 to Wilson Dr.	2.819	U1-recons.	2	\$950,000	\$5,356,100
2-lane re-construction of Anne St. from Carson Road to limits of development	0.697	U1-recons.	2	\$950,000	\$1,324,300
From Limits of Development to the City of Barrie	0.565	R2-recons.	2	\$715,000	\$807,950
4-lane new construction of Wilson Drive from Snow Valley Road to the Barrie limit	4	R4-new	4	\$715,000	\$11,440,000
4-lane new construction of County Road 27, from existing 4-lane to new Craig Road extension	0.728	R4-new	4	\$715,000	\$2,082,080
2-lane reconstruction of Old Second Road from Pooles Road to Walt Road	0.85	U1-recons.	2	\$950,000	\$1,615,000
New interchange at Pooles Road with Highway 400					\$10,197,457
2-lane reconstruction of Snow Valley Road from Wilson Drive to County Road 27	2.819	U1-recons.	2	\$982,500	\$5,539,335
Traffic Lights	9			\$500,000	\$4,500,000
Auxiliary Lanes	2			\$400,000	\$800,000
TOTAL ESTIMATED CAPITAL COST					78,559,232