#18041

Chair and Members Civic Works Committee March 19, 2018 (Award Contract)

RE: 2018 Infrastructure Renewal Program - Egerton Street and King Street Phase 1 Reconstruction Project

(Subledger WS15C00A)

Capital Project ES241418 - Sewer Infrastructure Lifecycle Renewal

Capital Project ES246418 - Combined Sewer Separation

Capital Project EW3624 - Burbrook Watermain Upgrade Ph II

Capital Project EW376518 - Water Infrastructure Lifecycle Renewal

Capital Project TS144618 - Road Networks Improvements

Capital Project TS173918 - Cycling Facilities

Capital Project TS301418 - Road Network Improvements (Local & Rural)

Capital Project TS406718 - Traffic Signals - Mtce
Capital Project TS512318 - Street Light Maintenance
Blue-Con Construction - \$5,799,999.00 (excluding H.S.T.)

Archibald, Gray & McKay Engineering Ltd. (AGM) - \$480,656.00 (excluding H.S.T.)

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

SUMMARY OF ESTIMATED EXPENDITURES	Approved Budget	Revised Budget	Committed to Date	This Submission	Balance for Future Work
ES241418-Sewer Infrastructure Lifecycle Renewal	Daaget	Buaget	to Date	<u> </u>	T dtdre Work
Engineering	\$1,728,809	\$1,728,809	\$5,000	\$156,517	\$1,567,292
Construction	10,297,079	10,297,079		1,771,648	8,525,431
Construction (PDC Portion) 2)	, ,	10,000		10,000	0
Construction (Utilities) 2)		651,031		651,031	0
City Related Expenses	15,000	15,000			15,000
•	12,040,888	12,701,919	5,000	2,589,196	10,107,723
ES246418-Combined Sewer Separation					
Engineering	600,000	600,000		48,912	551,088
Construction	2,800,000	2,800,000	384,140	385,763	2,030,097
Construction (PDC Portion)	18,800	18,800	18,800		0
	3,418,800	3,418,800	402,940	434,675	2,581,185
EW3624-Burbrook Watermain Upgrade Ph II					
Engineering	297,910	275,371	275,371		0
Construction	4,382,728	4,395,048	3,769,175	625,873	0
City Related Expenses	19,362	29,581	29,581		0
	4,700,000	4,700,000	4,074,127	625,873	0
EW376518-Water Infrastructure Lifecycle Renewal					
Engineering	1,250,000	1,250,000		171,191	1,078,809
Construction	7,222,019	7,222,019	934,784	1,123,760	5,163,475
	8,472,019	8,472,019	934,784	1,294,951	6,242,284
TS144618-Road Networks Improvements					
Engineering	1,000,000	1,000,000		39,129	960,871
Construction	11,661,996	11,661,996		563,499	11,098,497
	12,661,996	12,661,996	0	602,628	12,059,368
TS173918-Cycling Facilities					
Engineering	100,000	100,000			100,000
Construction	682,850	682,850		117,923	564,927
	782,850	782,850	0	117,923	664,927
TS301418-Road Network Improvements					
Engineering	100,000	100,000		12,227	87,773
Construction	9,294,985	9,294,985	1,639,492	482,457	7,173,036
	9,394,985	9,394,985	1,639,492	494,684	7,260,809
TS406718-Traffic Signals - Mtce		22.222	40.050	10.010	•
Engineering	0.070.007	92,262	43,350	48,912	0
Construction	3,970,995	3,878,733	40.050	118,491	3,760,242
TOTACOAC Conset Links Maintenance	3,970,995	3,970,995	43,350	167,403	3,760,242
TS512318-Street Light Maintenance	400.000	400.000	4.4.450	40.007	70.000
Engineering	100,000	100,000	14,450	12,227	73,323
Construction	2,312,498	2,210,738	8,120	40,176	2,162,442
Traffic Lights	2 412 400	<u>101,760</u> 2,412,498	101,760	52,403	2,235,765
	2,412,498	2,412,490	124,330	52,403	2,233,763
NET ESTIMATED EXPENDITURES	\$57,855,031	\$58,516,062	\$7,224,023	\$6,379,736 1)	\$44,912,303
NET ESTIMATED EXI ENDITORES	Ψ37,033,031	ψ30,310,00 <u>2</u>	ψ1,22 4 ,023	1)	ψ++,312,303
SUMMARY OF FINANCING:					
ES241418-Sewer Infrastructure Lifecycle Renewal					
Capital Sewer Rates	\$7,093,000	\$7,093,000			\$7,093,000
Drawdown from Sewage Works Reserve Fund	447,888	447,888			447,888
Federal Gas Tax	4,500,000	4,500,000	5,000	1,928,165	2,566,835
Cash Recovery from Property Owners (PDC Portion) 2)	4,000,000	10,000	0,000	10,000	0
Other Contributions (Utilities)		651,031		651,031	0
Zais. Solialization (California)	12,040,888	12,701,919	5,000	2,589,196	10,107,723
ES246418-Combined Sewer Separation	12,040,000	12,101,013	5,000	2,000,100	10,107,720
Capital Sewer Rates	1,168,000	1,168,000	384,140	434,675	349,185
Drawdown from Sewage Works Reserve Fund	2,232,000	2,232,000	554,146	10-1,010	2,232,000
Cash Recovery from Property Owners (PDC Portion)	18,800	18,800	18,800		2,232,000
z and the state of	3,418,800	3,418,800	402,940	434,675	2,581,185
EW3624-Burbrook Watermain Upgrade Ph II	5, 5,555	5, . 15,555	.52,0 .0	.5 1,51 5	_,001,100
Drawdown from Capital Water Reserve Fund	4,700,000	4,700,000	4,074,127	625,873	0
	.,. 00,000	.,. 00,000	.,, .=.	,	ŭ

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Capital Project TS512318 - Street Light Maintenance Blue-Con Construction - \$5,799,999.00 (excluding H.S.T.)

Archibald, Gray & McKay Engineering Ltd. (AGM) - \$480,656.00 (excluding H.S.T.)

EW376518-Water Intrastructure Lifecycle Renewal Capital Water Rates 6,502,100 6,502,100 934,784 1,294,951 6,602,101 1,969,919 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 334,784 1,294,951 6,732,101 1,969,919 1,96		Approved Budget	Revised Budget	Committed to Date	This Submission	Balance for Future Work
Capital Water Rates 6,502,100 6,502,100 934,784 1,294,951 4 TS144618-Road Networks Improvements 3,086,422 3,084,222 3,084,22 602,628 2 Capital Levy 3,308,422 3,084,22 602,628 2 Debenture Quota 3,308,422 355,720 535,720 602,628 2 Tedoral Gas Tax 1,2661,996 12,661,996 0 602,628 12 TS173918-Cycling Facilities 391,425 391,425 391,425 58,962 12 Capital Levy 391,425 391,425 391,425 58,962 17 TS23918-Cycling Facilities 782,850 782,850 0 117,923 117,923 TS31418-Rand Network Improvements 782,850 782,850 0 117,923 117,923 TS31418-Rand Network Improvements 8,993,195 8,993,195 1,639,492 494,684 6 Capital Levy 3,387,065 3,387,065 3,387,065 3,397,995 43,350 167,403 2 TS4042-Fire L	SUMMARY OF FINANCING: (continued) EW376519-Water Infrastructure Lifecycle Penewal					
Sample S	Capital Water Rates			934,784	1,294,951	4,272,365 1,969,919
Capital Levy Debenture Quots 3,308,422 3,308,422 602,628 2 Drawdown from Capital Infrastructure Gap R.F. 535,720 535,720 770,010 770,010 TS173918-Cycling Facilities 12,661,996 12,661,996 0 602,628 12 Capital Levy 391,425 391,425 58,961 58,962 58,962 Prowdown from City Services - Roads 4) 391,425 391,425 58,962 58,962 Reserve Fund (Development Charges) 782,850 782,850 0 117,923 TS301418-Road Network Improvements 23,994,985 9,394,985 1,639,492 494,684 6 Capital Levy 8,993,195 8,993,195 1,639,492 494,684 7 TS406718-Traffic Sinansis - Mice 9,394,985 9,394,985 1,639,492 494,684 7 TS406718-Traffic Sinansis - Mice 3,370,965 3,837,065 43,350 167,403 3 TS406718-Traffic Sinansis - Mice 3,379,965 3,970,995 43,950 167,403 3 TS406718-Traffic Sinansis - Mice	·			934,784	1,294,951	6,242,284
Debenture Quota 3 847,844 847,844 847,844 7,970,010		3 308 422	3 308 422		602 628	2,705,794
Federal Gas Tax					002,020	847,844
Telephan 12,661,996 12,661,996 0 602,628 12 Telephan 12,661,996 12,661,996 0 602,628 12 Capital Levy 391,425 391,425 58,962 58,962 782,850 782,850 0 117,923 782,850 782,850 782,850 0 117,923 782,914 7		535,720				535,720
TS173918-Cycling Facilities	Federal Gas Tax				000 000	7,970,010
Drawdown from City Services - Roads 391,425 391,425 58,962 Reserve Fund (Development Charges) 782,850 782,850 0 117,923				0		12,059,368
Reserve Fund (Development Charges) 782,850 782,850 0 117,923	•					332,464
Sagon Sago) 391,425	391,425		58,962	332,463
Recommendation Reco	TS301418-Road Network Improvements	782,850	782,850	0	117,923	664,927
Drawdown from Capital Infrastructure Gap R.F. 401,790 9,394,985 0,394,985 1,639,492 494,684 7 7 7 7 7 7 7 7 7		8,993,195	8,993,195	1,639,492	494,684	6,859,019
TS406718-Traffic Signals - Mtce			401,790		,	401,790
Capital Levy Drawdown from Capital Infrastructure Gap R.F. 3,837,065 13,930 133930 15,93930 16,7403 43,350 167,403 167,403 3 TS512318-Street Light Maintenance Capital Levy Drawdown from Capital Infrastructure Gap R.F. 2,345,533 2,345,533 124,330 52,403 124,330 52,403 2 TOTAL FINANCING \$57,855,031 \$58,816,062 \$7,224,023 \$56,379,736 \$44 Utilities Financial Note: (CONSTRUCTION) ES241418 ES241418 ES241418 ES246418 EW3624 EW3 Contract Price \$1750,834 \$651,031 \$379,091 \$615,048 \$340d; HST @13% 227,608 84,634 49,282 79,956 70tal Contract Price Including Taxes 19,788,442 735,665 428,373 695,004 19,834 42,610 69,131 84,044 42,610 69,131 84,044 42,610 69,131 84,044 84	TS406718-Traffic Signals - Mtca	9,394,985	9,394,985	1,639,492	494,684	7,260,809
3,970,995 3,970,995 43,350 167,403 336 3370,995 33,970,995 34,982 34,	Capital Levy	3,837,065	3,837,065	43,350	167,403	3,626,312
TS512318-Street Light Maintenance	Drawdown from Capital Infrastructure Gap R.F.					133,930
Capital Levy	TS512318-Street Light Maintenance	3,970,995	3,970,995	43,350	167,403	3,760,242
Contract Price Signature		2,345,533	2,345,533	124,330	52,403	2,168,800
ST,855,031 \$58,516,062 \$7,224,023 \$6,379,736 \$4.40	Drawdown from Capital Infrastructure Gap R.F.			12/ 330	52 403	66,965 2,235,765
Description Property Proper	TOTAL FINANCING					
Financial Note: (CONSTRUCTION)	TOTAL FINANCING	\$57,855,031	\$38,316,062	\$7,224,023	\$6,379,736	\$44,912,303
Contract Price \$1,750,834 \$651,031 \$379,091 \$615,048 \$Add: HST @13% 49,282 79,956 428,373 695,004 Less: HST Rebate 196,794 84,634 42,610 69,131 Net Contract Price \$1,781,648 \$651,031 \$385,763 \$625,873 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Figure in Nature (CONSTRUCTION)			50010110	=1410.004	=140=0=40
Add: HST @13% 227,608 84,634 49,282 79,956 Total Contract Price Including Taxes 1,978,442 735,665 428,373 695,004 Less: HST Rebate 196,794 84,634 42,610 69,131 Net Contract Price \$1,781,648 \$651,031 \$385,763 \$625,873 \$\$ Financial Note (CONSTRUCTION continued) TS144618 TS173918 TS301418 TS406718 TS5 COntract Price \$553,753 \$115,883 \$474,112 \$116,442 Add: HST @13% 71,988 15,065 61,635 15,137 Total Contract Price Including Taxes 625,741 130,948 535,747 131,579 Less: HST Rebate 62,242 13,025 53,290 13,088 Net Contract Price 6 \$563,499 \$117,923 \$482,457 \$118,491 \$\$ Financial Note (CONSTRUCTION continued) Contract Price Including Taxes 62,242 13,025 53,290 13,088 Net Contract Price Including Taxes 62,242 13,025 53,290 13,088 Net Contract Price Including Taxes 62,242 13,025 53,290 13,088 Net Contract Price Including Taxes 62,242 13,025 53,290 13,088 Net Contract Price Including Taxes 848,495 \$117,923 \$482,457 \$118,491 \$\$ Financial Note (CONSTRUCTION continued) Contract Price Including Taxes 8563,499 \$117,923 \$482,457 \$\$ Financial Note: (ENGINEERING) ES241418 ES246418 EW376518 TS144618 TS3 Contract Price Including Taxes 19,995 6,249 21,870 4,999 \$100 43,451 \$100 43,45						EW376518 \$1,104,324
Total Contract Price Including Taxes 1,978,442 735,665 428,373 695,004					· · ·	143,56
Net Contract Price \$1,781,648 \$651,031 \$385,763 \$625,873 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					695,004	1,247,88
Timancial Note (CONSTRUCTION continued)						124,12
Contract Price \$553,753 \$115,883 \$474,112 \$116,442 Add: HST @13% 71,988 15,065 61,635 15,137 Total Contract Price Including Taxes 62,741 130,948 535,747 131,579 Less: HST Rebate 62,242 13,025 53,290 13,088 Net Contract Price \$563,499 \$117,923 \$482,457 \$118,491 \$						\$1,123,76
Add: HST @13% 71,988 15,065 61,635 15,137 Total Contract Price Including Taxes 625,741 130,948 535,747 131,579 Less: HST Rebate 62,242 13,025 53,290 13,088 Net Contract Price \$\$563,499 \$\$117,923 \$\$482,457 \$\$118,491 \$\$ CONSTICUTION CONTINUED Contract Price Add: HST @13% Total Contract Price Including Taxes Less: HST Rebate Net Contract Price \$\$153,810 \$\$48,066 \$\$168,230 \$\$38,452 \$\$104 Contract Price \$\$153,810 \$\$48,066 \$\$168,230 \$\$38,452 \$\$104 Add: HST @13% \$\$19,995 \$\$6,249 \$\$21,870 \$\$4,999 \$\$104 Contract Price Including Taxes Less: HST Rebate Net Contract Price Including Taxes 173,805 \$\$43,15 \$\$190,100 \$\$43,451 \$\$104 Less: HST Rebate 17,288 \$\$5,403 \$\$18,909 \$\$43,22 \$\$ Net Contract Price \$\$156,517 \$\$48,912 \$\$171,191 \$\$39,129 \$\$ Engine Financial Note (ENGINEERING continued)						TS512318 \$39,48
Total Contract Price Including Taxes 625,741 130,948 535,747 131,579 130,088 130,0						5,13
Second S	Total Contract Price Including Taxes					44,61
CONSTRUCTION continued CONSTRUCTION continued CONSTRUCTION continued						4,43
TO Contract Price Add: HST @13% TO Contract Price Including Taxes Less: HST Rebate Standard Price Standard	Net Contract File	<u>\$563,499</u>	\$117,923	\$482,457	<u>\$118,491</u>	\$40,170
Contract Price \$ Add: HST @13% Total Contract Price Including Taxes Less: HST Rebate \$ Net Contract Price \$ Financial Note: (ENGINEERING) ES241418 ES246418 EW376518 TS144618 TS36 Contract Price \$153,810 \$48,066 \$168,230 \$38,452 \$38,	Financial Note (CONSTRUCTION continued)					CONSTRUCTION TOTAL
Add: HST @13% Total Contract Price Including Taxes Less: HST Rebate Net Contract Price Financial Note: (ENGINEERING) Contract Price Statistical Price ES241418 ES246418 EW376518 TS144618 TS34 Contract Price Add: HST @13% Total Contract Price Including Taxes I73,805 I73,806 I						\$5,799,99
Sesting Sest						754,00
Secontract Price Secontract	_					6,553,999
Contract Price \$153,810 \$48,066 \$168,230 \$38,452 Add: HST @13% 19,995 6,249 21,870 4,999 Total Contract Price Including Taxes 173,805 54,315 190,100 43,451 Less: HST Rebate 17,288 5,403 18,909 4,322 Net Contract Price \$156,517 \$48,912 \$171,191 \$39,129 ENGINE Financial Note (ENGINEERING continued) TS406718 TS512318 TO Contract Price \$48,066 \$12,016						663,378 \$5,890,62
Contract Price \$153,810 \$48,066 \$168,230 \$38,452 Add: HST @13% 19,995 6,249 21,870 4,999 Total Contract Price Including Taxes 173,805 54,315 190,100 43,451 Less: HST Rebate 17,288 5,403 18,909 4,322 Net Contract Price \$156,517 \$48,912 \$171,191 \$39,129 Financial Note (ENGINEERING continued) TS406718 TS512318 TO Contract Price \$48,066 \$12,016	Financial Note: (ENGINEERING)	ES241418	ES246418	EW376518	TS144618	TS301418
Total Contract Price Including Taxes						\$12,01
Less: HST Rebate Net Contract Price 17,288 5,403 18,909 4,322 Net Contract Price \$156,517 \$48,912 \$171,191 \$39,129 ENGINE Financial Note (ENGINEERING continued) TS406718 TS512318 TO Contract Price \$48,066 \$12,016						1,562
Net Contract Price \$156,517 \$48,912 \$171,191 \$39,129 ENGINE Financial Note (ENGINEERING continued) TS406718 TS512318 TO Contract Price \$48,066 \$12,016						13,57
Financial Note (ENGINEERING continued) TS406718 TS512318 TO Contract Price \$48,066 \$12,016						1,35° \$12,22°
Contract Price \$48,066 \$12,016						ENGINEERING
¥ -1 ¥ 1						TOTAL
0.00° HS 1 100 1295						\$480,656
Add: HST @13% 6,249 1,562 Total Contract Price Including Taxes 54,315 13,578						62,486 543,142
Less: HST Rebate 5,403 1,351	<u> </u>					54,027

APPENDIX 'A'

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Chair and Members March 19, 2018
Civic Works Committee (Award Contract)

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Capital Project TS406718 - Traffic Signals - Mtce Capital Project TS512318 - Street Light Maintenance Blue-Con Construction - \$5,799,999.00 (excluding H.S.T.)

Archibald, Gray & McKay Engineering Ltd. (AGM) - \$480,656.00 (excluding H.S.T.)

 Net Contract Price
 \$48,912
 \$12,227
 \$489,115

 TOTAL CONSTRUCTION & ENGINEERING
 \$6,379,736
 \$6,379,736

2) The expenditures have increased to accommodate the PDC (Private Drain Connections) funding, Bell Canada and London Hydro contribution towards this project.

NOTE TO CITY CLERK:

3) Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary authorizing by-laws.

An authorizing by-law should be drafted to secure debenture financing for project TS144618 - Road Networks Improvements for the net amount to be debentured of \$847,844.00.

- 4) Development Charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2014
- 5) Additional annual operating costs of \$200 for Sewer Operations and \$9,180 \$10,860 for Transportation Operations, attributed to new infrastructure installation.

JG	Jason Davies Manager of Financial Planning & Policy