

Appendix X
Preliminary Cost Estimates

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Winston Churchill Boulevard

From: Olde Base Line Road

To: Bush Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total	
Design/Contract Administration	Design						
	Contract Administration	lump sum	\$855,000.00	1		\$855,000	
	Contingency (15%)					\$128,250	
	Sub Total					\$983,250	
Property Acquisition	Strip property purchase	ha	\$750,000.00	0.2485		\$186,375	
	Whole purchase (specify)	lump sum					
Utility Conflicts*	General	km					
	Hydro Pole Relocation	each	\$5,000.00	35		\$175,000	
	Contingency (15%)					\$26,250	
	Sub Total					\$201,250	
Construction	Excavation/Earthworks	m3	\$18.91	49281.72		\$931,917	
	Install storm sewer	m per diam	\$263.00	4475		\$1,176,925	
	Granular 'A'	tonne	\$42.43	24878.76		\$1,055,606	
	Granular 'B'	tonne	\$32.84	35516.72		\$1,166,369	
	Asphalt Base (HL8)	tonne	\$77.77	11489.6915		\$893,553	
	Asphalt Top (HL1)	tonne	\$115.46	7960.8705		\$919,162	
	Install curb and gutter	m	\$64.44	5952		\$383,547	
	Install subdrains	m	\$25.24	5952		\$150,228	
	Install catch-basin leads	m	\$258.75	1000		\$258,750	
	Install catch-basin	each	\$2,253.14	218		\$491,185	
	Install manhole	each	\$6,226.65	70		\$435,866	
	Oil-Grit Separator	each	\$6,250.00	4		\$25,000	
	Asphalt removal	m2	\$4.20	44650		\$187,530	
	Remove Guiderail	m	\$10.52	318		\$3,345	
	Install Guiderail	m	\$84.41	458		\$38,660	
		Contingency (15%)					\$1,217,646
		Sub Total					\$9,335,290
	Intersections	Additional turning lane (specify extra lanes and Municipal split)					
Contingency (specify %)							
Sub Total							

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Winston Churchill Boulevard

From: Olde Base Line Road

To: Bush Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
Streetlights	Both sides	km or each				
	Centre median	km or each				
	Median	km				
	Contingency (specify %)					
	Sub Total					
Traffic Signals	Permanent 4 - way	each				
	Permanent 3 - way	each				
	Temporary	each				
	Contingency (specify %)					
	Sub Total					
Culverts	Rehabilitation of existing					
	Widening of existing					
	Removal of existing	each	\$1,500.00	19		\$28,500
	375mm CSP	m	\$150.00	27.351		\$4,103
	400mm CSP	m	\$160.00	54.004		\$8,641
	600mm CSP	m	\$300.00	109.062		\$32,719
	1800 x 610 Box Culvert	m	\$875.00	14.617		\$12,790
	3000 x 1200 Box Culvert	m	\$1,200.00	17.758		\$21,310
	1800 x 900 Box Culvert	m	\$925.00	18.39		\$17,011
	6000 x 1500 Open Bottom Culvert	m	\$1,900.00	21.228		\$40,333
	OGS Unit	each	\$15,000.00	5		\$75,000
	Contingency (15%)					
	Sub Total					\$276,466
Bridges	Rehabilitation of existing					
	Widening of existing					
	Removal of existing					
	New structure					
	Contingency (specify %)					
	Sub Total					
Noise Walls	Installation					
	Removal of existing					
	Contingency (specify %)					
	Sub Total					
Landscaping/ Sidewalks	Sidewalk					
	Trees and shrubs					
	Other (specify)					
	Contingency (specify %)					
	Sub Total					

* Utility conflicts are based on preliminary information. Actual costs are subject to the development of utility relocation design.

TOTAL

\$10,982,631

PUBLIC WORKS

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Olde Base Line Road

From: Winston Churchill Boulevard

To: Mississauga Road/Old Main Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total	
Design/Contract Administration	Design						
	Contract Administration	lump sum	\$380,000.00	1		\$380,000.00	
	Contingency (15%)					\$57,000.00	
	Sub Total					\$437,000.00	
Property Acquisition	Strip property purchase	ha	\$750,000.00	0.2555		\$191,625.00	
	Whole purchase (specify)	lump sum					
Utility Conflicts*	General	km					
	Hydro Pole Relocation	each	\$5,000.00	42		\$210,000.00	
	Contingency (15%)					\$31,500.00	
	Sub Total					\$241,500.00	
Construction	Excavation/Earthworks	m3	\$18.91	23861.65		\$451,223.80	
	Install storm sewer	m per diam	\$263.00	1230		\$323,490.00	
	Granular 'A'	tonne	\$42.43	11710.584		\$496,880.08	
	Granular 'B'	tonne	\$32.84	18510.42		\$607,882.19	
	Asphalt Base (HL8)	tonne	\$77.77	5264.952		\$409,455.32	
	Asphalt Top (HL1)	tonne	\$115.46	3578.976		\$413,228.57	
	Remove curb and gutter	m	\$8.45	95		\$802.75	
	Install curb and gutter	m	\$64.44	2335		\$150,467.40	
	Install subdrains	m	\$25.24	2335		\$58,935.40	
	Install catch-basin leads	m	\$258.75	290		\$75,037.50	
	Install catch-basin	each	\$2,253.14	76		\$171,238.64	
	Install manhole	each	\$6,226.65	19		\$118,306.35	
	Oil-Grit Separator	each	\$6,250.00	2		\$12,500.00	
	Asphalt removal	m2	\$4.20	20230		\$84,966.00	
	Remove Guiderail	m	\$10.52	90		\$946.80	
	Install Guiderail	m	\$84.41	710		\$59,931.10	
		Contingency (15%)					\$515,293.78
		Sub Total					\$3,950,585.68
	Intersections	Additional turning lane (specify extra lanes and Municipal split)					
		Contingency (specify %)					
Sub Total							

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Olde Base Line Road

From: Winston Churchill Boulevard

To: Mississauga Road/Old Main Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
Streetlights	Both sides	km or each				
	Centre median	km or each				
	Median	km				
	Contingency (specify %)					
	Sub Total					
Traffic Signals	Permanent 4 - way	each				
	Permanent 3 - way	each				
	Temporary	each				
	Contingency (specify %)					
	Sub Total					
Culverts	Rehabilitation of existing					
	Widening of existing					
	Removal of existing	each	\$1,500.00	8		\$12,000
	450mm CSP	m	\$190.00	34.925		\$6,636
	500mm CSP	m	\$240.00	10.637		\$2,553
	600mm CSP	m	\$300.00	113.75		\$34,125
	3000 x 1200 Box Culvert	m	\$1,200.00	28.727		\$34,472
	OGS Unit	each	\$15,000.00	3		\$45,000
Contingency (15%)						\$20,218
	Sub Total					\$155,004
Bridges	Rehabilitation of existing					
	Widening of existing					
	Removal of existing					
	New structure					
Contingency (specify %)						
	Sub Total					
Noise Walls	Installation					
	Removal of existing					
	Contingency (specify %)					
	Sub Total					
Landscaping/ Sidewalks	Sidewalk					
	Trees and shrubs					
	Other (specify)					
	Contingency (specify %)					
	Sub Total					

* Utility conflicts are based on preliminary information. Actual costs are subject to the development of utility relocation design.

TOTAL

\$4,975,715

PUBLIC WORKS

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Mississauga Road/Old Main Street

From: Olde Base Line Road

To: Bush Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total	
Design/Contract Administration	Design						
	Contract Administration	lump sum	\$935,000.00	1		\$935,000.00	
	Contingency (15%)					\$140,250.00	
	Sub Total					\$1,075,250.00	
Property Acquisition	Strip property purchase	ha	\$750,000.00	0.1805		\$135,375.00	
	Whole purchase (specify)	lump sum					
Utility Conflicts*	General	km					
	Hydro Pole Relocation	each	\$5,000.00	57		\$285,000.00	
	Contingency (15%)					\$42,750.00	
	Sub Total					\$327,750.00	
Construction	Excavation/Earthworks	m3	\$18.91	58494.7		\$1,106,134.78	
	Install storm sewer	m per diam	\$263.00	4980		\$1,309,740.00	
	Granular 'A'	tonne	\$42.43	26371.8		\$1,118,955.47	
	Granular 'B'	tonne	\$32.84	38026.76		\$1,248,798.80	
	Asphalt Base (HL8)	tonne	\$77.77	12265.4595		\$953,884.79	
	Asphalt Top (HL1)	tonne	\$115.46	8502.0315		\$981,644.56	
	Install curb and gutter	m	\$64.44	6440		\$414,993.60	
	Install subdrains	m	\$25.24	6440		\$162,545.60	
	Install catch-basin leads	m	\$258.75	1030		\$266,512.50	
	Install catch-basin	each	\$2,253.14	254		\$572,297.56	
	Install manhole	each	\$6,226.65	80		\$498,132.00	
	Oil-Grit Separator	each	\$6,250.00	5		\$31,250.00	
	Asphalt removal	m2	\$4.20	5000		\$21,000.00	
	Remove Guiderail	m	\$10.52	400		\$4,208.00	
	Install Guiderail	m	\$84.41	400		\$33,764.00	
	Retaining Wall	lump sum	\$100,000.00	1		\$100,000.00	
		Contingency (15%)					\$1,323,579.25
		Sub Total					\$10,147,440.90
Intersections	Additional turning lane (specify extra lanes and Municipal split)						
	Contingency (specify %)						
	Sub Total						

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Mississauga Road/Old Main Street

From: Olde Base Line Road

To: Bush Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
Streetlights	Both sides	km or each				
	Centre median	km or each				
	Median	km				
	Contingency (specify %)					
	Sub Total					
Traffic Signals	Permanent 4 - way	each				
	Permanent 3 - way	each				
	Temporary	each				
	Contingency (specify %)					
	Sub Total					
Culverts	Rehabilitation of existing					
	Widening of existing					
	Removal of existing	each	\$1,500.00	10		\$15,000
	600mm CSP	m	\$300.00	121.191		\$36,357
	1200 x 600 Box Culvert	m	\$750.00	14.969		\$11,227
	1500 x 900 Box Culvert	m	\$850.00	12.388		\$10,530
	2400 x 1500 BOX Culvert	m	\$1,100.00	34.674		\$38,141
	6000 x 1500 Box Culvert	m	\$1,900.00	18.795		\$35,711
	OGS Unit	each	\$15,000.00	5		\$75,000
	Contingency (15%)					\$33,295
	Sub Total					\$255,261
Bridges	Rehabilitation of existing					
	Widening of existing					
	Removal of existing					
	New structure					
	Contingency (specify %)					
	Sub Total					
Noise Walls	Installation					
	Removal of existing					
	Contingency (specify %)					
	Sub Total					
Landscaping/ Sidewalks	Sidewalk					
	Trees and shrubs					
	Other (specify)					
	Contingency (specify %)					
	Sub Total					

* Utility conflicts are based on preliminary information. Actual costs are subject to the development of utility relocation design.

TOTAL

\$11,941,077

PUBLIC WORKS

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Bush Street

From: Winston Churchill Boulevard

To:

Mississauga Road/Old Main Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total	
Design/Contract Administration	Design						
	Contract Administration	lump sum	\$275,000.00	1		\$275,000.00	
	Contingency (15%)					\$41,250.00	
	Sub Total					\$316,250.00	
Property Acquisition	Strip property purchase	ha	\$750,000.00	0.0355		\$26,625.00	
	Whole purchase (specify)	lump sum					
Utility Conflicts*	General	km					
	Hydro Pole Relocation	each	\$5,000.00	11		\$55,000.00	
	Contingency (15%)					\$8,250.00	
	Sub Total					\$63,250.00	
Construction	Excavation/Earthworks	m3	\$18.91	28759.72		\$543,846.31	
	Install storm sewer	m per diam	\$263.00	525		\$138,075.00	
	Granular 'A'	tonne	\$42.43	8360.496		\$354,735.85	
	Granular 'B'	tonne	\$32.84	19274.06		\$632,960.13	
	Asphalt Base (HL8)	tonne	\$77.77	3525.1335		\$274,149.63	
	Asphalt Top (HL1)	tonne	\$115.46	2205.5715		\$254,655.29	
	Install curb and gutter	m	\$64.44	1500.00		\$96,660.00	
	Install subdrains	m	\$25.24	1500.00		\$37,860.00	
	Install catch-basin leads	m	\$258.75	63		\$16,301.25	
	Install catch-basin	each	\$2,253.14	30		\$67,594.20	
	Install manhole	each	\$6,226.65	9		\$56,039.85	
	Oil-Grit Separator	each	\$6,250.00	1		\$6,250.00	
	Asphalt removal	m2	\$4.20	18850		\$79,170.00	
	Remove Guiderail	m	\$10.52	485		\$5,102.20	
	Install Guiderail	m	\$84.41	485		\$40,938.85	
		Contingency (15%)					\$390,650.78
		Sub Total					\$2,994,989.33
Intersections	Additional turning lane (specify extra lanes and Municipal split)						
	Contingency (specify %)						
	Sub Total						

PRELIMINARY CONSTRUCTION ESTIMATE

Date: June 2014

Project No.:

ROAD Bush Street

From: Winston Churchill Boulevard

To: Mississauga Road/Old Main Street

Description:

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
Streetlights	Both sides	km or each				
	Centre median	km or each				
	Median	km				
	Contingency (specify %)					
	Sub Total					
Traffic Signals	Permanent 4 - way	each				
	Permanent 3 - way	each				
	Temporary	each				
	Contingency (specify %)					
	Sub Total					
Culverts	Rehabilitation of existing					
	Widening of existing					
	Removal of existing	each	\$1,500.00	4		\$6,000
	375mm CSP	m	\$150.00	76.829		\$11,524
	600mm CSP	m	\$300.00	79.575		\$23,873
	1500 x 900 Box Culvert	m	\$850.00	10.29		\$8,747
	OGS Units	each	\$15,000.00	1		\$15,000
Contingency (15%)						\$9,772
	Sub Total					\$74,915
Bridges	Rehabilitation of existing					
	Widening of existing					
	Removal of existing					
	New structure					
Contingency (specify %)						
	Sub Total					
Noise Walls	Installation					
	Removal of existing					
	Contingency (specify %)					
	Sub Total					
Landscaping/ Sidewalks	Sidewalk					
	Trees and shrubs					
	Other (specify)					
	Contingency (specify %)					
	Sub Total					

* Utility conflicts are based on preliminary information. Actual costs are subject to the development of utility relocation design.

TOTAL

\$3,476,029