

The Regional Municipality of Peel  
Class 4 Estimate  
**ETOBICOKE CREEK TRUNK SEWER IMPROVEMENTS AND UPGRADES**

SCHEDULE OF UNIT PRICES

Item No.	Item Name	Description of the Work	Unit	Estimated Quantity	Contractor's Bid Per Unit	Contractor's Total Bid
<b>Part A - Sanitary Sewer</b>						
A-1	<i>Site Preparation</i>	a) Site Preparation for Site 1	m2	2,400	\$ 450.00	\$ 1,080,000.00
		b) Site Preparation for Site 2	m2	1,320	\$ 450.00	\$ 594,000.00
		c) Shaft Biscayne Connection	m2	1,320	\$ 450.00	\$ 594,000.00
		d) Site Preparation for Site 3	m2	1,990	\$ 450.00	\$ 895,500.00
		e) Site Preparation for Site 4	m2	660	\$ 450.00	\$ 297,000.00
		f) Site Preparation for Site 5	m2	1,610	\$ 450.00	\$ 724,500.00
		g) Site Preparation for Site 6	m2	2,160	\$ 450.00	\$ 972,000.00
A-2	<i>Shaft Excavation and Support</i>	a) Shaft 1 – 10 m dia, 20.7 m deep Excavation and Support	l.s.	1	\$ 2,600,000.00	\$ 2,600,000.00
		b) Shaft 2 – 7 m dia, 26.2 m deep Excavation and Support	l.s.	1	\$ 2,505,000.00	\$ 2,505,000.00
		c) Shaft Biscayne Connection - 6.5 m dia, 12 m deep Excavation and Support	l.s.	1	\$ 1,002,000.00	\$ 1,002,000.00
		d) Shaft 3 – 10 m dia, 15.0 m deep Excavation and Support	l.s.	1	\$ 1,945,000.00	\$ 1,945,000.00
		e) Shaft 4 – 7 m dia, 7.7 m deep Excavation and Support	l.s.	1	\$ 686,000.00	\$ 686,000.00
		f) Shaft 5 – 5 m dia, 7.6 m deep Excavation and Support	l.s.	1	\$ 551,000.00	\$ 551,000.00
		g) Shaft 6 – 6.5 m dia, 6.0 m deep Excavation and Support	l.s.	1	\$ 507,500.00	\$ 507,500.00
		h) Launching Pit – 5 m dia, 6 m deep Excavation and Support	l.s.	1	\$ 415,000.00	\$ 415,000.00
		i) Receiving Pit – 5 m dia, 6 m deep Excavation and Support	l.s.	1	\$ 415,000.00	\$ 415,000.00
A-3	<i>Chambers and Manholes</i>	a) Supply and Installation of 3000mm DIA MH x 20.7m deep at Shaft 1 at Landscaped Area including Shaft's backfill	l.s.	1	\$ 601,500.00	\$ 601,500.00
		b) Supply and Installation of 3000mm DIA MH x 26.2m deep at Shaft 2 at Landscaped Area including Shaft's backfill	l.s.	1	\$ 645,000.00	\$ 645,000.00
		c) Supply and Installation of 3000mm DIA MH x 12.0m deep at Shaft Biscayne Connection at Paved Area including Shaft's backfill	l.s.	1	\$ 325,000.00	\$ 325,000.00
		d) Supply and Installation of 2400mm DIA MH x 15.0m at Shaft 3 at Landscape Area including Shaft's backfill	l.s.	1	\$ 355,000.00	\$ 355,000.00
		e) Supply and Installation of 2400mm DIA MH x 7.7m at Shaft 4 at Landscape Area including Shaft's backfill	l.s.	1	\$ 165,500.00	\$ 165,500.00
		f) Supply and Installation of 3000mm DIA MH x 7.6m at Shaft 5 at Landscape Area including Shaft's backfill	l.s.	1	\$ 205,000.00	\$ 205,000.00
		g) Supply and Installation of 3000mm DIA MH x 6.0m at Shaft 6 at Landscape Area including Shaft 1 backfill	l.s.	1	\$ 185,000.00	\$ 185,000.00
		h) Supply and Installation of 3000mm DIA MH x 6m along open cut pipe line at Landscape Area (at Launching and Receiving Pits) at Landscape Area including Pit's backfill	each	2	\$ 175,000.00	\$ 350,000.00
		i) Supply and Installation of 2400mm DIA MH x 4.5m along open cut pipe line space at 100m at Landscape Area includes excavation, backfill and excavation support	each	4	\$ 170,000.00	\$ 680,000.00
		j) Supply and Installation of West to East Diversion – 2.4m dia. Manhole, 6.6 m deep	l.s.	1	\$ 255,000.00	\$ 255,000.00
A-4	<i>Trenchless Works:</i>	a) Tunnel Excavation and Support for 1500mm CPP Sanitary Trunk - Segment 1, including pipe cost	m	1,301	\$ 12,800.00	\$ 16,652,800.00
		b) Tunnel Excavation and Support for 1500mm CPP Sanitary Trunk - Segment 2, including pipe cost	m	1,264	\$ 12,800.00	\$ 16,179,200.00
		c) Tunnel Excavation and Support for 1500mm CPP Sanitary Trunk - Segment 3, including pipe cost	m	651	\$ 12,800.00	\$ 8,332,800.00

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Item No.	Item Name	Description of the Work	Unit	Estimated Quantity	Contractor's Bid Per Unit	Contractor's Total Bid
		d) Jack and Bore Pipe for 1500mm CPP Sanitary Trunk - Segment 4 (Creek Crossing) including cost of Jacking pipe with Steel Liner	m	30	\$ 13,000.00	\$ 390,000.00
A-5	<i>Open-cut Works:</i>	d) 1500mm CPP Sanitary Sewer with HDPE liner -Segment 4	m	527	\$ 12,100.00	\$ 6,376,700.00
A-6	<i>Geotechnical Instrumentation Monitoring</i>	Geotechnical Instrumentation Monitoring	l.s.	1	\$ 1,000,000.00	\$ 1,000,000.00
A-7	<i>As-Recorded Tunnel Survey</i>	As-Recorded Tunnel Survey	l.s.	1	\$ 20,000.00	\$ 20,000.00
<b>Vendor's Total of Part A (Carried forward to Summary)</b>						<b>\$ 68,502,000.00</b>
<b>Part B - Restoration</b>						
B-1	<i>Site 1 Restoration</i>	a) Site Preparation for Site 1	m2	2,400	\$ 300.00	\$ 720,000.00
		b) Site Preparation for Site 2	m2	1,320	\$ 300.00	\$ 396,000.00
		c) Shaft Biscayne Connection	m2	1,320	\$ 300.00	\$ 396,000.00
		d) Site Preparation for Site 3	m2	1,990	\$ 300.00	\$ 597,000.00
		e) Site Preparation for Site 4	m2	660	\$ 300.00	\$ 198,000.00
		f) Site Preparation for Site 5	m2	1,610	\$ 300.00	\$ 483,000.00
		g) Site Preparation for Site 6	m2	2,160	\$ 300.00	\$ 648,000.00
B-2	<i>Open Cut Restoration</i>	Site Restoration for Open Cut	m2	2,372	\$ 300.00	\$ 711,450.00
<b>Vendor's Total of Part B (Carried forward to Summary)</b>						<b>\$ 4,149,450.00</b>
<b>Part C - Miscellaneous Items</b>						
C-1	<i>Mobilization &amp; Demobilization</i>	Mobilization & Demobilization	l.s.	1	\$ 2,500,000.00	\$ 2,500,000.00
C-2	<i>Bonding and Insurance</i>	Bonding and Insurance	l.s.	1	\$ 1,800,000.00	\$ 1,800,000.00
C-3	<i>Offices</i>	Site Office	l.s.	1	\$ 300,000.00	\$ 300,000.00
C-4	<i>Project Signs</i>	Project Signs	ea.	10	\$ 1,000.00	\$ 10,000.00
C-5	<i>Construction Verification Surveyor</i>	Construction Verification Surveyor	l.s.	1	\$ 170,000.00	\$ 170,000.00
C-6	<i>Pre-Construction Assessment and Activities</i>	a) Pre-Condition Survey	l.s.	1	\$ 80,000.00	\$ 80,000.00
		b) Noise and Vibration Baseline and Monitoring	l.s.	1	\$ 200,000.00	\$ 200,000.00
C-7	<i>Post-Construction Assessment and Activities</i>	Post-Construction Assessment and Activities	l.s.	1	\$ 60,000.00	\$ 60,000.00
C-8	<i>Water Management: Dewatering and Control of Water, Treatment of Construction Water, Discharge of Water</i>	Water Management: Dewatering and Control of Water, Treatment of Construction Water, Discharge of Water	l.s.	1	\$ 700,000.00	\$ 700,000.00
C-9	<i>Decommission Monitoring Wells</i>		ea.	10	\$ 6,000.00	\$ 60,000.00
C-10	<i>Erosion and Sedimentation Control</i>	Erosion and Sedimentation Control	l.s.	1	\$ 150,000.00	\$ 150,000.00
C-11	<i>Excavated Materials Management Plan</i>	Management plan for soil and rock generated in excavating open cut work and shafts	l.s.	1	\$ 10,000.00	\$ 10,000.00

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Item No.	Item Name	Description of the Work	Unit	Estimated Quantity	Contractor's Bid Per Unit	Contractor's Total Bid
C-12	<i>Muck Management Plan</i>	Management plan for soil and rock materials generated in excavating tunnel and shaft construction support system	l.s.	1	\$ 70,000.00	\$ 70,000.00
C-13	<i>Traffic Management Plan, Control and Maintenance</i>	Traffic Management Plan, Control and Maintenance	l.s.	1	\$ 400,000.00	\$ 400,000.00
C-14	<i>Commissioning and Pressure Testing of Trunk, Sewers, and Equipment and Controls at Chambers.</i>	Commissioning and Pressure Testing of Trunk, Sewers, and Equipment and Controls at Chambers.	l.s.	1	\$ 300,000.00	\$ 300,000.00
C-15	<i>Record Drawings and O&amp;M Manual</i>	Record Drawings and O&M Manual	l.s.	1	\$ 30,000.00	\$ 30,000.00
<b>Vendor's Total of Part C (Carried forward to Summary)</b>						<b>\$ 6,840,000.00</b>
<b>Part D - Contingency</b>						
D-1	<i>Disposal of Excavated Material that Meet Table 3.1 - Open Cut Works</i>	Additional costs for disposal of Excavated Materials that do not meet Table 1 SCS but meet Table 3.1 for Open Cut, MHs, Chambers, Carrier Pipe and Shaft Installation Works	m3	1,000	\$ 10.00	\$ 10,000.00
D-2	<i>Disposal to a MECP Licensed Disposal Facility (non-hazardous) - Open Cut Works</i>	Additional costs for disposal of Excavated Materials that do not meet Table 1 SCS or Table 3.1 SCS for Open Cut, MHs, Chambers, Carrier Pipe and Shaft Installation Works	m3	1,000	\$ 60.00	\$ 60,000.00
D-3	<i>Disposal to a MECP Licensed Disposal Facility (non-hazardous) - Trenchless Works</i>	a) Additional costs for disposal of Excavated Materials that do not meet Table 1 SCS or Table 3.1 SCS for Trenchless Works - Rate for the total disposal volume does not exceed 1,000 cubic metres	m3	1,000	\$ 80.00	\$ 80,000.00
		b) Additional costs for disposal of Excavated Materials that do not meet Table 1 SCS or Table 3.1 SCS for Trenchless Works - Rate when the total disposal volume exceeds 1,000 cubic metres but does not exceed 40,000 cubic metres.	m3	39,000	\$ 50.00	\$ 1,950,000.00
		c) Additional costs for disposal of Excavated Materials that do not meet Table 1 SCS or Table 3.1 SCS for Trenchless Works - Rate where the total disposal volume exceeds 40,000 cubic metres but does not exceed 80,000 cubic metres.	m3	20,000	\$ 50.00	\$ 1,000,000.00
D-4	<i>Disposal of Hazardous Materials</i>	Additional costs for disposal of hazardous materials for Open Cut, MHs, Chambers, Carrier Pipe, Shaft Installation and Trenchless Works	m3	200	\$ 750.00	\$ 150,000.00
D-5	<i>Stand-by time for TBM due to methane gas</i>	Stand-by time for TBM due to methane gas	hours	200	\$ 1,100.00	\$ 220,000.00
<b>Vendor's Total of Part D (Carried forward to Summary)</b>						<b>\$ 3,470,000.00</b>
<b>Part E - Provisional</b>						
E-1	<i>Supply, Place and Compact the Following as Bedding or Backfill Including Disposal of the Excavated Material Over and Above Normal Design Trench Conditions:</i>	a) 20mm Clear Stone	Tonne	1	\$ 85.00	\$ 85.00
		b) Granular `A`	Tonne	1	\$ 80.00	\$ 80.00
		c) Granular `B`	Tonne	1	\$ 75.00	\$ 75.00
		d) Unshrinkable Fill (0.7 MPa)	m3	1	\$ 185.00	\$ 185.00
		e) 15 MPa Concrete	m3	1	\$ 230.00	\$ 230.00
E-2	<i>Additional Restoration Items</i>	a) Concrete Sidewalk/Walkway	m	50	\$ 200.00	\$ 10,000.00
		b) Temporary Asphalt Sidewalk	m	50	\$ 130.00	\$ 6,500.00
		c) Concrete Curb (All Types)	m	50	\$ 185.00	\$ 9,250.00
		d) Temporary Asphalt Curb	m	50	\$ 100.00	\$ 5,000.00
		e) Supply, Place and Compact HL8 to Average 75mm Depth (Temporary Asphalt)	m2	250	\$ 45.00	\$ 11,250.00
		f) Supply and Place No. 1 Nursery Sod Complete with 100mm of Topsoil, Including Watering of Sod	m2	250	\$ 25.00	\$ 6,250.00

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		g) Chain-linked Fence	m	50	\$ 150.00	\$ 7,500.00
		h) Replacing Trees	ea.	1	\$ 1,500.00	\$ 1,500.00
E-3	Supply and Place 50mm HL1 Asphalt Where Requested by the Engineer		m2	1,500	\$ 45.00	\$ 67,500.00
E-4	Supply and Place 50mm Cold Mix Asphalt Where Requested by the Engineer		m2	50	\$ 70.00	\$ 3,500.00
E-5	Additional Probe Holes in the Tunnel	Additional Probe Holes in the Tunnel	m	500	\$ 150.00	\$ 75,000.00
E-6	Grouting of Probe / Grout Holes in the Tunnel	a) Portland Cement	kg	10,000	\$ 1.80	\$ 18,000.00
		b) Ultrafine Cement	kg	2,000	\$ 3.60	\$ 7,200.00
		c) Grout Injection	hrs	300	\$ 780.00	\$ 234,000.00
E-9	Supply, install and maintain variable messaging signage board		wk.	24	\$ 1,000.00	\$ 24,000.00
E-10	Covid-19	Monthly Covid-19-related costs after December 31, 2022	Mo.	6	\$ 3,000.00	\$ 18,000.00
E-11	Additional Enbridge Gas Main Daylighting	Daylight gas mains, restore disturbed area to existing conditions, and provide day light report	ea.	20	\$ 2,000.00	\$ 40,000.00
<b>Vendor's Total of Part E (Carried forward to Summary)</b>						<b>\$ 545,105.00</b>
<b>Part F - Cash and Contingency Allowance</b>						
F-1	Dispute Resolution Board (DRB)		Allow	1	\$ 100,000.00	\$ 100,000.00
F-2	Extra for Labour Because of Delay Due to Man-Made Obstruction Not Shown on Plan or Extra Work Required:	a) Foreman	hrs.	50	\$ 104.76	\$ 5,237.93
		b) Operator	hrs.	50	\$ 99.09	\$ 4,954.43
		c) Pipelayer	hrs.	50	\$ 93.47	\$ 4,673.55
		d) Assistant Pipelayer	hrs.	50	\$ 91.30	\$ 4,564.88
		e) Labourer (Open Cut)	hrs.	50	\$ 89.96	\$ 4,498.20
		f) Labourer (Tunneling)	hrs.	50	\$ 93.91	\$ 4,695.60
		g) Truck Driver	hrs.	50	\$ 88.03	\$ 4,401.60
		h) Flagperson	hrs.	50	\$ 80.51	\$ 4,025.70
		i) Foreman's Vehicle	hrs.	50	\$ 25.00	\$ 1,250.00
F-3	Utility Relocation Allowance	a) Utility Relocation Allowance	Allow	1	\$ 100,000.00	\$ 100,000.00
F-4	Paid Duty Police Officer	Paid Duty Police Officer	Allow	1	\$ 15,000.00	\$ 15,000.00

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Item No.	Item Name	Description of the Work	Unit	Estimated Quantity	Contractor's Bid Per Unit	Contractor's Total Bid
F-5	Contingency Sum for Extra Work Ordered by the Engineer	Construction Contingency	Allow	1	\$ 10,000,000.00	\$ 10,000,000.00
<b>Vendor's Total of Part F (Carried forward to Summary)</b>						<b>\$ 10,253,301.88</b>
<b>Schedule of Prices Summary</b>						
<b>Description</b>						<b>Contractor's Total Bid</b>
<b>Part A - Sanitary Sewer</b>						\$ 68,502,000.00
<b>Part B - Restoration</b>						\$ 4,150,000.00
<b>Part C - Miscellaneous Items</b>						\$ 6,840,000.00
<b>Part D - Contingency</b>						\$ 3,470,000.00
<b>Part E - Provisional Items</b>						\$ 546,000.00
<b>Part F - Cash and Contingency Allowance</b>						\$ 10,254,000.00
<b>Contractor's Sub-Total PART A - PART F</b>						<b>\$ 93,762,000.00</b>
<b>Design Contingency (20% of Parts A, B, C, D &amp; E)</b>						<b>20.0%</b> \$ 18,753,000.00
<b>Construction Contingency (Included in F)</b>						\$ -
<b>Contractor's Sub-Total including Contingencies</b>						<b>\$ 112,515,000.00</b>
<b>Escalation at 4.5%/ year from November to June 2025 with 32 months construction. Escalation to Mid-Point of Construction = (32mths + (45mths/2) = 54.5months x 0.375% = 20.44%</b>						<b>20.438%</b> \$ 22,996,000.00
<b>TOTAL AMOUNT OF TENDER</b>						<b>\$ 135,511,000.00</b>
(Does NOT include Harmonized Sales Tax (H.S.T))						<b>(Transfer to the cover sheet)</b>
<b>AACEI STANDARD CLASS 4</b>					<b>+50%</b>	<b>\$ 203,266,500.00</b>
					<b>-30%</b>	<b>\$ 94,857,700.00</b>