

All Bidders are to note that the Special Provisions - Contract Items Supplementary are regularly revised and in some cases modified to a specific project. The City will not be responsible for any Bidder not being aware of the changes from previous tender documents.

SCHEDULE OF QUANTITIES AND UNIT PRICES

CONTRACT NO. 2019-188-07
NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
PHASE 1 SECTION 'A' - GENERAL						
A1	A1	Bonding	1	L.S.	\$ _____	\$ _____
A4	SPCS	Construction Layout				
		a) Survey Layout	1	L.S.	\$ _____	\$ _____
		b) Progress and Final Record Photography	1	L.S.	\$ _____	\$ _____
		c) Record Survey and Drawings	1	L.S.	\$ _____	\$ _____
A5	SPCS	Clearing and Grubbing				
		a) Remove Existing Trees (≥ 100mm dia.)	30	each	\$ _____	\$ _____
		b) Remove Existing Stumps	1400	each	\$ _____	\$ _____
		c) Remove Existing Brush, Shrubs & Vegetation	600	m ²	\$ _____	\$ _____
A7	SPCS	Install, Maintain and Remove Silt Control Devices				
		a) Catchbasin Silt Bags	16	each	\$ _____	\$ _____
		b) Light Duty Silt Fence Barrier, OPSD 219.110	950	m	\$ _____	\$ _____
		c) Straw Bale Check Dam	30	each	\$ _____	\$ _____
A8	SPCS	Construction Signs, Traffic Control and Traffic Management Plan	1	L.S.	\$ _____	\$ _____
A9	SPCS	Contingency Allowance	1	L.S.	\$ 100,000.00	\$ 100,000.00

TOTAL PHASE 1 SECTION 'A' - GENERAL \$ _____

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PHASE 1 SECTION 'B' - ROADS						
B2	SPCS	Earth Excavation <i>Includes sawcutting and disposal of surplus or unsuitable excavated materials</i>				
		f) Topsoil Stripping including Disposal Off-site	17000	m ³	\$ _____	\$ _____
		g) Separate existing stockpile on Parts 7 & 8 into 4 stockpiles per Soil Management Plan	200	Hour	\$ _____	\$ _____
		h) Earthworks				
		i. Excavate Blackburn Parkway Roadway and Road Allowance from Station 0+025 to 0+490 to 1.8m below finished road and place and pregrade on Parts 11 and 16	6,800	m ³	\$ _____	\$ _____
		ii. Place and pregrade suitable fill material from earth stockpile onto Blackburn Parkway roadway and boulevard to subgrade and Parts 10 and 17 to pregrade elevation	39,000	m ³	\$ _____	\$ _____
		iii. Dispose unsuitable concrete, asphalt and other construction materials off-site	2,000	m ³	\$ _____	\$ _____
		iv. Dispose organic material from stockpile off-site	3,000	m ³	\$ _____	\$ _____
		v. Mud Mat - 600mm thick - 4" minus x 8.0 wide	240	m2	\$ _____	\$ _____
		i) Supply and install 6mil polyethylene sheeting or tarpaulins	3200	m2	\$ _____	\$ _____
B3	SPCS	Granular Material				
		a) Granular 'A'				
		i. Roads, Medians	6,800	t	\$ _____	\$ _____
		iii. Driveway Base (375mm depth for Industrial)	80	t	\$ _____	\$ _____
		iv. Driveway Culverts	200	t	\$ _____	\$ _____
		c) Granular 'M'				
		i. Shoulder Restoration	30	t	\$ _____	\$ _____
B6	SPCS	Subdrain Perforated HDPE Pipe c/w Filter Cloth <i>(Includes 'Coring of' and 'Connection to' existing structures, where required)</i>				
		a) 100mm Dia.	1050	m	\$ _____	\$ _____
B7	B7	Installation of New Culvert				
		a) Corrugated Steel Pipe (CSP) (68mm x 13mm Corrugation & 1.6mm Thickness)				
		iii. 600mm Dia.	60	m	\$ _____	\$ _____
B8	SPCS	Concrete Curb and Gutter				
		a) Barrier Curb w/ Standard Gutter - Tangent (OPSD 600.040)	1006	m	\$ _____	\$ _____
B11	SPCS	Asphalt Milling <i>Includes delivery of millings to City's Service Centre</i>				
		a) < 75mm Depth (incl. tapers at limits and butt joints)	50	m ²	\$ _____	\$ _____
B14	SPCS	Supply & Place Hot Mix Asphalt				
		a) Roadways				
		ii. HL8 HS Base Course - [80mm Compacted Thickness]	1050	t	\$ _____	\$ _____
B18	SPCS	Granular Driveways <i>For Preparation & Handwork</i>				
		a) Granular 'A'				
		iii. Industrial Driveway - 375mm Depth	60	m ²	\$ _____	\$ _____

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NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
B19	SPCS	Regrading of Ditches and Swales <i>Includes removal and disposal of excess/unsuitable excavated materials</i> a) Existing	60	m	\$ _____	\$ _____
B20	B20	Hand Laid Riprap with Filter Cloth	10	m ²	\$ _____	\$ _____
B35	SPCS	Disposal of Excavated Contaminated Soils <i>Based on net weight as recorded by certified weigh scale @ disposal site - Weigh Tickets must be provided</i>	20000	t	\$ _____	\$ _____
B38	SPCS	Geotextile on Roadway Subgrade	5000	m ²	\$ _____	\$ _____

TOTAL PHASE 1 SECTION 'B' - ROADS \$ _____

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CONTRACT NO. 2019-188-07

NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
PHASE 1 SECTION 'C' - SEWERS						
PHASE 1 CX.1 - SANITARY						
C1.1	SPCS	Sanitary Sewers <i>Includes Removal & Disposal of Existing Sewer - Any Type/Depth/Dia.</i> <i>(unless otherwise noted)-Including Native Backfill Except Under Existing Roads</i> a) 200mm Dia. - PVC DR35 i. PLUG to SANMH S1; approx. 4.5m deep ii. PLUG to SANMH S2; approx. 4.6m deep iii. PLUG to SANMH S2; approx. 4.6m deep iv. PLUG to SANMH S3; approx. 4.7m deep v. PLUG to SANMH S7; approx. 4.7m deep vi. PLUG to SANMH S6; approx. 4.7m deep vii. PLUG to SANMH S4; approx. 4.7m deep viii. PLUG to SANMH S4; approx. 4.7m deep ix. PLUG to EX MH; approx. 3.5m deep (Part 5 Heartland Forest Road) x. PLUG to EX MH; approx. 3.5m deep (Part 6 Heartland Forest Road) xi. PLUG to EX MH; approx. 3.5m deep (Part 7 Heartland Forest Road) xii. PLUG to EX MH; approx. 3.5m deep (Part 8 Heartland Forest Road) b) 250mm Dia. - PVC DR35 i. SANMH S1 to SANMH S2; approx. 4.7m deep ii. SANMH S2 to SANMH S3; approx. 4.6m deep iii. SANMH S3 to SANMH S7; approx. 4.5m deep iv. SANMH S7 to SANMH S6; approx. 4.7m deep v. SANMH S6 to SANMH S5; approx. 4.6m deep vi. SANMH S5 to SANMH S4; approx. 4.5m deep vii. SANMH S7 to EX MH; approx. 4.7m deep				
C3.1	B3 - SPCS	Sewer Bedding, Cover and Backfill - Sanitary a) Sewer Bedding & Cover i. Granular 'A' b) Sewer Trench Backfill i. Granular 'A' (Heartland Forest Road) e) Precast Maintenance Hole Bedding & Backfill i. Granular 'A' f) Over Excavation - for Very Deep Sewers (Below Road Base) i. Approved Native Material - From Site <i>(incl. Handling & Compaction w/ Sheepsfoot)</i>				
C5.1	SPCS	Flush and TV Inspect (& Test) a) Sewers i. New Sewers c) Mandrel Testing - New Flexible Sewer i. Upon Completion ii. Prior to 1-year Final Inspection				

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NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
C6.1	SPCS	Precast Concrete Maintenance Holes <i>Includes Bituminous Sealing and Self-Leveling Frames & Covers (within roadway)</i>				
		a) 1200mm Dia. - OPSD 701.010				
		i. SMH S1; approx. 4.9m deep	1	each	\$ _____	\$ _____
		ii. SMH S2; approx. 4.8m deep	1	each	\$ _____	\$ _____
		iii. SMH S3; approx. 4.95m deep	1	each	\$ _____	\$ _____
		iv. SMH S4; approx. 3.5m deep	1	each	\$ _____	\$ _____
		v. SMH S5; approx. 3.95m deep	1	each	\$ _____	\$ _____
		vi. SMH S6; approx. 5.0m deep	1	each	\$ _____	\$ _____
vii. SMH S7; approx. 4.9m deep	1	each	\$ _____	\$ _____		
C10.1	SPCS	Sewer and/or Structure Connections <i>Any Material Type/Depth/Diameter/Wall Thickness</i>				
		a) New Sewer to Existing Structure (Incl. MH Coring & Kor'n Seal Adaptor to Accommodate New Pipe)	5	each	\$ _____	\$ _____
C11.1	OPSD 1003.03	Internal Drop Structures				
		b) Existing Maintenance Hole (OPSD 1003.030)	4	each	\$ _____	\$ _____
C12.1	OPSD 404.020	Aluminum Safety Platform a) 1200mm Dia. Maintenance Hole	5	each	\$ _____	\$ _____
C14.1	B14	Supply & Place Hot Mix Asphalt				
		a) Trench Restoration				
		i. HL8 HS - 80mm Thickness (Heartland Forest Road Restoration)	20	t	\$ _____	\$ _____
		i. HL3 HS - 40mm Thickness (Heartland Forest Road Restoration)	20	t	\$ _____	\$ _____

TOTAL PHASE 1 CX.1 - SANITARY \$ _____

SCHEDULE OF QUANTITIES AND UNIT PRICES

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NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
PHASE 1 CX.2 - STORM						
C1.2	SPCS	Storm Sewers <i>Includes Removal & Disposal of Existing Sewer - Any Type/Depth/Dia. (unless otherwise noted)-Including Native Backfill Except Under Existing Roads</i>				
		a) 300mm Dia. - PVC DR35 i. MH D1to DMH_D3; approx. 2.3m deep	93.7	m	\$ _____	\$ _____
		c) 525mm Dia. - Conc CL 65D i. PLUG to MH D6; approx. 3.1m deep	15	m	\$ _____	\$ _____
		d) 600mm Dia. - Conc CL 65D i. PLUG to DMH_D4; approx. 3.1m deep	13	m	\$ _____	\$ _____
		iii. PLUG to DMH_D5; approx. 3m deep	13	m	\$ _____	\$ _____
		iv. PLUG to DMH_D7; approx. 2.6m deep	19.6	m	\$ _____	\$ _____
		e) 675mm Dia. - Conc CL 65D i. PLUG to DMH_D13; approx. 2.3m deep	3	m	\$ _____	\$ _____
		ii. MH D13 to MH_D12; approx. 2.7m deep	87.2	m	\$ _____	\$ _____
		iii. PLUG to MH_D12; approx. 3.1m deep	4.2	m	\$ _____	\$ _____
		g) 825mm Dia. - Conc CL 65D i. MH D2 to DMH-D3; approx. 3m deep	10	m	\$ _____	\$ _____
		ii. MH D12 to MH_D3; approx. 3m deep	17.4	m	\$ _____	\$ _____
		iii. PLUG to MH_D14; approx. 2.5m deep	6.6	m	\$ _____	\$ _____
		h) 900mm Dia. - Conc CL 65D i. Stub to MH D7; approx. 2.3m deep	52	m	\$ _____	\$ _____
		i) 975mm Dia. - Conc CL 65D i. MH D7 to MH D6; approx. 2.8m deep	59	m	\$ _____	\$ _____
		ii. PLUG to MH D14; approx. 2.5m deep	6.6	m	\$ _____	\$ _____
		j) 1200mm Dia. - Conc CL 65D i. MH D3 to DMH_D4; approx. 3m deep	50.3	m	\$ _____	\$ _____
		ii. MH D4 to MH_D5; approx. 3m deep	53.6	m	\$ _____	\$ _____
		iii. MH D5 to MH_D6; approx. 3m deep	68.6	m	\$ _____	\$ _____
		k) 1650mm Dia. - Conc CL 65D i. MH D6 to MH D14; approx. 2.7m deep	129.7	m	\$ _____	\$ _____
		l) 1800mm Dia. - Conc CL 65D i. MH D14to DMH_D15; approx. 3m deep	120.2	m	\$ _____	\$ _____
		ii. MH D15 to HW 1; approx. 3.5m deep	74.6	m	\$ _____	\$ _____
C2.2	SPCS	Sewer Laterals/Leads b) Leads - PVC DR35 iii. 300mm Dia.	40	m	\$ _____	\$ _____

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NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE		
C3.2	B3 - SPCS	Sewer Bedding, Cover and Backfill - Storm						
		a) Sewer Bedding & Cover						
		i. Granular 'A'	4250	t	\$ _____	\$ _____		
		b) Sewer Trench Backfill (Heartland Forest Road)						
		i. Granular 'A'	50	t	\$ _____	\$ _____		
		e) Leads Bedding, Cover and Backfill						
		i. Granular 'A'	110	t	\$ _____	\$ _____		
		f) Precast Maintenance Hole Bedding & Backfill						
		i. Granular 'A'	400	t	\$ _____	\$ _____		
C5.2	SPCS	Flush and TV Inspect (& Test)						
		a) Sewers						
		i. New Sewers	1001	m	\$ _____	\$ _____		
		c) Mandrel Testing - New Flexible Sewer						
		i. Upon Completion	102	m	\$ _____	\$ _____		
		ii. Prior to 1-year Final Inspection	102	m	\$ _____	\$ _____		
		C6.2	SPCS	Precast Concrete Maintenance Holes, Catchbasins and Ditch Inlets				
				A. Precast Concrete Maintenance Holes				
				<i>Includes Self-Leveling Frames & Covers (within roadway)</i>				
a) 1200mm Dia. - OPSD 701.010								
i. MH D1; approx. 1.8m deep	1			each	\$ _____	\$ _____		
b) 1500mm Dia. - OPSD 701.011								
ii. DMH_D13; approx. 2.8m deep	1			each	\$ _____	\$ _____		
iii. DMH-D2; approx. 3.2m deep	1			each	\$ _____	\$ _____		
c) 1800mm Dia. - OPSD 701.012								
ii. DMH_D7; approx. 2.75m deep	1			each	\$ _____	\$ _____		
iv. DMH_D12; approx. 3.25m deep	1			each	\$ _____	\$ _____		
d) 2400mm Dia. - OPSD 701.013								
i. DMH_D3; approx. 3.0m deep	1			each	\$ _____	\$ _____		
ii. DMH_D4; approx. 3.3m deep	1			each	\$ _____	\$ _____		
iii. DMH_D5; approx. 3.1m deep	1			each	\$ _____	\$ _____		
e) 3000mm Dia. - OPSD 701.014								
i. DMH_D14; approx. 3.5m deep	1			each	\$ _____	\$ _____		
ii. DMH_D15; approx. 3.7m deep	1			each	\$ _____	\$ _____		
f) 3000mm x 2400MM Rectangular Maintenance Hole								
i. DMH_D6; approx. 3.1m deep	1			each	\$ _____	\$ _____		
g) Headwall & Outlet								
i. Concrete Headwall per OPSD 804.040	1	each	\$ _____	\$ _____				
B28	ii. Pedestrian Hand-Rail for Headwall per OPSD 908.101	6	m	\$ _____	\$ _____			
	iii. Rip Rap 300mm in size-600mm depth	60	m2	\$ _____	\$ _____			
	iv. Non Woven Geotextile Terrifix 270R or Equal	60	m2	\$ _____	\$ _____			

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ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
C11	SPCS OPSD 208.010	B. Precast Concrete Catchbasins				
		<i>Includes Frame & Grates (OPSD 400.020)</i>				
		<i>Rim Elevations as Noted on Contract Drawings</i>				
		b) 600x1450mm Double - OPSD 705.020	9	each	\$ _____	\$ _____
		C. Precast Concrete Ditch Inlets				
		<i>Includes Frame & Honeycomb Grates (OPSD 403.010)</i>				
		a) 600x1200mm (Type A, 3:1 Slope) - OPSD 705.040	1	each	\$ _____	\$ _____
		Warren Creek Reinstatement				
		a) Placement of 100mm Topsoil	600	m2	\$ _____	\$ _____
		b) Coir Mat and Hydro Seed	600	m2	\$ _____	\$ _____

TOTAL PHASE 1 CX.2 - STORM \$ _____

TOTAL PHASE 1 SECTION 'C' - SEWERS \$ _____

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NIAGARA FALLS INDUSTRIAL PARK PHASE 1 & 2

ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
PHASE 1 SECTION 'D' - WATERMAINS						
D1	SPCS	Watermain <i>PVC - Class 150 DR18 (by Open Trench) -Including Native Backfill Except Under Existing Roads</i> b) 150mm Dia. c) 200mm Dia. e) 300mm Dia.	20 133 505	m m m	\$ _____ \$ _____ \$ _____	\$ _____ \$ _____ \$ _____
D1.3	B3	Watermain Bedding, Cover and Backfill a) Watermain Bedding & Cover i. Granular 'A' b) Trench Backfill i. Granular 'A' d) Hydrants Bedding & Backfill i. Granular 'A'	1350 250 40	t t t	\$ _____ \$ _____ \$ _____	\$ _____ \$ _____ \$ _____
D2	SPCS	Valves <i>Including Valve Box</i> b) 200mm Dia. c) 300mm Dia.	7 2	each each	\$ _____ \$ _____	\$ _____ \$ _____
D3	SPCS	Hydrant Sets <i>c/w Anchor Tee & Valve (OPSD 1105.01)</i>	6	each	\$ _____	\$ _____
D9	D9	Insulation of Services/Watermain a) 50mm Thickness a) 65mm Thickness	50 50	m ² m ²	\$ _____ \$ _____	\$ _____ \$ _____
D13	SPCS	Watermain Disinfection and Testing	1	L.S.	\$ _____	\$ _____
D17	SPCS	Watermain Connections <i>Incl. all necessary pipe lengths, bends, tees, adapters, other fittings and thrust restraints etc. to complete the connection.</i> a) Connect Proposed 300mm Dia PVC W/M to Existing 300mm Dia. PVC W/M on Blackburn Parkway @ Sta. 0+510 b) Connect Proposed 300mm Dia PVC W/M to Existing 300mm Dia. PVC W/M @ Heartland Forest Road c) Connect proposed 200mm dia watermain for Parts 5 & 8 to Existing 300mm Dia. PVC W/M on Heatland Forest Road	1 1 2	each each each	\$ _____ \$ _____ \$ _____	\$ _____ \$ _____ \$ _____
D24	B14	Supply & Place Hot Mix Asphalt a) Trench Restoration i. HL8 HS - 80mm Thickness (Heartland Forest Road Restoration) i. HL3 HS - 40mm Thickness (Heartland Forest Road Restoration)	10 10	t t	\$ _____ \$ _____	\$ _____ \$ _____

TOTAL PHASE 1 SECTION 'D' - WATERMAINS \$ _____

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ITEM NO.	SPEC NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
SECTION 'P' - PROVISIONAL ITEMS						
B1	SPCS	Test Pits				
		a) Depth up to 0.5m	1	each	\$ _____	\$ _____
		b) Depth up to 1.0m	1	each	\$ _____	\$ _____
		c) Depth up to 2.0m	1	each	\$ _____	\$ _____
		e) Via Hydro Vac. (<i>Any Depth</i>)	4	Hour	\$ _____	\$ _____
B24	SPCS	Application of Water for Dust Control	500	m ³	\$ _____	\$ _____
D21	SPCS	Water Valve Cleaning and Exercise	2	each	\$ _____	\$ _____
P1	SPCS	32 MPa Concrete	5	m ³	\$ _____	\$ _____
P3	SPCS	Rock Excavation In Trench	5	m ³	\$ _____	\$ _____
P4	SPCS	Unshrinkable Fill	5	m ³	\$ _____	\$ _____
P5	SPCS	19 mm Clear Stone	100	t	\$ _____	\$ _____
P8	SPCS	Utility Pole Support During Excavation	1	each	\$ _____	\$ _____

TOTAL SECTION 'P' - PROVISIONAL \$ _____