CROZIER CONSULTING ENGINEERS

Flato North Required Securities Summary

Project: Flato North Phase 2a/3
File No.: 1060-4150
Date: 2022-11-29
By: JLA / BR

ITEM	DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	CURRENT CONTRACT TOTAL	Percent of Remaining	Remaining Works
	PART A WORKS						
	SCHEDULE A - EARTHWORKS - ZONE 1						
A1	**Strip & Windrow Topsoil within Zone III (0.4 m depth assumed) to facilitate fill harvesting. Post harvesting operations, regrade windrowed topsoil within Zone III**	28000	m^3	$ 4.50	$ 126,000.00	0.00%	$ -
A2	Strip from Zone 1 & Stockpile Topsoil to Zone II (from SWM Facility #1, Residential Area & Wetland Restoration Area) (0.4 m topsoil depth assumed)	67600	m^3	$ 4.50	$ 304,200.00	0.00%	$ -
A3	Place Stockpiled topsoil within the following areas:						
a)	Wetland Restoration Area (1.4 m depth)	15400	m^3	$ 4.00	$ 61,600.00	0.00%	$ -
b)	SWM Facility #1 (depth varies)	4920	m^3	$ 4.00	$ 19,680.00	0.00%	$ -
A4	Earthworks Operations within Residential Area of Zone 1						
a)	Cut to Fill	4040	m^3	$ 5.00	$ 20,200.00	0.00%	$ -
b)	Supply, Place & Compact Imported Engineered Fill	133500	m^3	$ 17.25	$ 2,302,875.00		$ -
A5	Earthworks Operations within SWM Facility #1						
a)	Cut to Fill (to residential area)	1000	m^3	$ 5.00	$ 5,000.00	0.00%	$ -
b)	Cut to Fill (to SWM Facility)	3800	m^3	$ 5.00	$ 19,000.00	0.00%	$ -
A6	Cut to Fill Mineral Soil from the following sources and place & compact within the residential area of Zone 1						
a)	Wetland Restoration Area	25000	m^3	$ 5.00	$ 125,000.00	0.00%	$ -
b)	Zone III	35000	m^3	$ 6.00	$ 210,000.00	0.00%	$ -
				Subtotal	**$ 3,193,555.00**		**$ -**
	SCHEDULE B - SANITARY SEWER						
B1	Supply and Install Sanitary Sewers						
a)	200 mm dia.	408.4	m	$ 260.00	$ 106,184.00	0%	$ -
b)	250 mm dia.	507	m	$ 250.00	$ 126,750.00	0%	$ -
B2	Supply and Install Sanitary Structures						
a)	1200 mm dia. (OPSD 701.010)	8	ea	$ 5,250.00	$ 42,000.00	0%	$ -
b)	1200 mm dia. (OPSD 701.010) c/w safety platforms	5	ea	$ 7,135.00	$ 35,675.00	0%	$ -
B3	125mm dia. Sanitary Services	118	ea.	$ 1,510.00	$ 178,180.00	0%	$ -
B4	Locate and connect to existing sanitary sewer (Flato West)	1	LS	$ 650.00	$ 650.00	0%	$ -
B5	CCTV of All Sanitary Sewers (Three Times)	1	LS	$ 10,000.00	$ 10,000.00	33%	$ 3,300.00
				Subtotal	**$ 499,439.00**		**$ 3,300.00**

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	SCHEDULE C - STORM SEWERS						
C1	Supply & Install Storm Sewers c/w all associated appurtenances						
a)	250mm dia. PVC	102.66	**m**	$ 130.00	$ 13,345.80	0%	$ -
b)	300mm dia. PVC	584.33	**m**	$ 150.00	$ 87,649.50	0%	$ -
c)	375mm dia. PVC	368.4	**m**	$ 180.00	$ 66,312.00	0%	$ -
d)	300mm dia. CL65-D	408.85	**m**	$ 196.00	$ 80,134.60	0%	$ -
f)	450mm dia. CL65-D	198.25	m	$ 217.00	$ 43,020.25	0%	$ -
g)	525mm dia. CL65-D	107.6	m	$ 231.00	$ 24,855.60	0%	$ -
h)	600 mm dia. CL65-D	53.9	m	$ 269.00	$ 14,499.10	0%	$ -
j)	750mm dia. CL65-D	108	m	$ 414.00	$ 44,712.00	0%	$ -
k)	825mm dia. CL65-D	73	m	$ 481.00	$ 35,113.00	0%	$ -
m)	250mm dia. Catch basin leads	53	**m**	$ 150.00	$ 7,950.00	0%	$ -
n)	300mm dia. Catch basin leads	76	m	$ 170.00	$ 12,920.00	0%	$ -
C2	Supply & Install Storm Structures c/w frame & grates						
a)	1200mm dia. (OPSD 701.010)	1	ea	$ 3,814.00	$ 3,814.00	0%	$ -
b)	1200mm dia. (OPSD 701.010) (CBMH)	26	ea	$ 4,106.00	$ 106,756.00	0%	$ -
c)	1500mm dia. (OPSD 701.011) (CBMH)	3	ea	$ 6,170.00	$ 18,510.00	0%	$ -
d)	1500mm dia. (OPSD 701.011) (DCBMH)	3	ea	$ 5,749.00	$ 17,247.00	0%	$ -
e)	1800mm dia. (OPSD 701.012)	4	ea	$ 8,900.00	$ 35,600.00	0%	$ -
C3	Supply & Install Catch basins c/w frame & grates						
a)	Single Catch basins	6	ea	$ 2,004.00	$ 12,024.00	0%	$ -
b)	Double Catch basins	4	ea	$ 3,150.00	$ 12,600.00	0%	$ -
c)	Rear Lot Single Catch basins	21	ea	$ 1,985.00	$ 41,685.00	0%	$ -
d)	Rear Lot Double Catch basins	1	ea	$ 3,115.00	$ 3,115.00	0%	$ -
C4	Supply and Install Storm Services						
a)	125 mm dia. c/w Wye and 100 mm dia stub	13	ea	$ 1,740.00	$ 22,620.00	0%	$ -
b)	100 mm dia. (Individual)	92	ea	$ 1,350.00	$ 124,200.00	0%	$ -
C5	CCTV of All Storm Sewers (Three Times)	1	LS	$ 10,000.00	$ 10,000.00	33%	$ 3,300.00
				Subtotal	**$ 838,682.85**		**$ 3,300.00**

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	SCHEDULE D -WATERMAIN						
D1	Supply & Install PVC Watermain c/w associated appurtenances						
a)	200mm dia.	665	m	$ 130.00	$ 86,450.00	0%	$ -
b)	150mm dia.	445	m	$ 110.00	$ 48,950.00	0%	$ -
D2	Supply & Install 25mm Copper Water Services	118	ea.	$ 870.00	$ 102,660.00	0%	$ -
D3	Supply & Install Fire Hydrant c/w Valve, Lead & Valve Box	5	ea.	$ 6,650.00	$ 33,250.00	0%	$ -
D4	Temporary Connection, Testing and Disinfection of Watermain	1	LS	$ 8,890.00	$ 8,890.00	0%	$ -
D5	Locate and Connect Watermain to existing						
a)	Internal: Flato West (Hagen Street East and Van Dusen Ave.)	1	ea.	$ 1,540.00	$ 1,540.00	0%	$ -
b)	External: Russell Street	1	ea.	$ 2,310.00	$ 2,310.00	0%	$ -
D6	Water Sampling Station c/w outlet to sanitary sewer	1	LS	$ 3,115.00	$ 3,115.00	0%	$ -
D7	Supply & Install watermain and steel casings c/w all associated appurtenances at the following Unnamed Tributary crossings:						
a)	Flato North (Werry Ave): 400 mm dia. Steel casing c/w 200 mm dia. Watermain	18	m	$ 800.00	$ 14,400.00	0%	$ -
b)	Flato North (Seeley Ave): 300 mm dia. Steel casing c/w 150 mm dia. Watermain	15	m	$ 830.00	$ 12,450.00	0%	$ -
				Subtotal	**$ 314,015.00**		**$ -**

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	SCHEDULE E - ROADWORKS						
E1	Preparation & fine grading of subgrade for roadway	9310	m²	$ 2.50	$ 23,275.00	0%	$ -
E2	Supply Place & Compact Road Materials (including temporary turning circles)						
a)	150mm Granular A	8638	m²	$ 7.00	$ 60,466.00	0%	$ -
b)	450mm Granular B	13390	m²	$ 14.00	$ 187,460.00	0%	$ -
c)	50mm HL4 Base Course Asphalt	7640	m²	$ 14.00	$ 106,960.00	0%	$ -
d)	50mm HL3 Surface Coarse Asphalt	7640	m²	$ 15.16	$ 115,822.40	0%	$ -
E3	Supply & Place 100mm dia. Subdrain c/w connections	1817	m	$ 22.50	$ 40,882.50	0%	$ -
E4	Supply & Install Concrete Curb and Gutter (OPSD 600.040)	1817	m	$ 40.00	$ 72,680.00	0%	$ -
E5	Supply & Install CSP Arch Culverts at Unnamed Tributary Crossings						
a)	Werry Ave (Flato North) 4500 mm X 1400 mm as per DWG 114A	1	LS	$ 148,500.00	$ 148,500.00	0%	$ -
b)	Seely Ave (Flato North) 4500 mm X 1400 mm as per DWG 114B	1	LS	$ 144,000.00	$ 144,000.00	0%	$ -
E6	Construct 1.5m wide sidewalk along Russell Street c/w restoration	1458	m²	$ 60.00	$ 87,480.00	10%	$ 8,748.00
E7	Supply and Place concrete encased utility road crossings						
c)	8x100mm diameter conduit	30	m	$ 150.00	$ 4,500.00	0%	$ -
b)	10x100mm diameter conduit	30	m	$ 180.00	$ 5,400.00	0%	$ -
c)	12x100mm diameter conduit	20	m	$ 220.00	$ 4,400.00	0%	$ -
E8	Supply and Place direct buried utility road crossings						
c)	8x100mm diameter conduit	30	m	$ 100.00	$ 3,000.00	0%	$ -
b)	10x100mm diameter conduit	30	m	$ 130.00	$ 3,900.00	0%	$ -
c)	12x100mm diameter conduit	20	m	$ 170.00	$ 3,400.00	0%	$ -
				Subtotal	**$ 1,012,125.90**		**$ 8,748.00**

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	SCHEDULE F - EROSION AND SEDIMENT CONTROLS						
F1	**Supply, Install & Maintain Heavy Duty Silt Fence SWM Facility #1)**	2470	m	$ 15.50	$ 38,285.00	0%	$ -
F2	Supply, Install & Maintain Mud Mat	1	ea.	$ 5,786.70	$ 5,786.70	0%	$ -
F3	Supply, Install & Maintain SWM Facility Erosion and Sediment Controls						
a)	Heavy Duty Silt Fence	600	m	$ 15.50	$ 9,300.00	0%	$ -
b)	Rock Check Dams	2	ea.	$ 250.00	$ 500.00	0%	$ -
c)	Straw Bale Check Dam	2	ea	$ 290.00	$ 580.00	0%	$ -
d)	Temporary Hickenbottom c/w rip-rap and removal	1	ea	$ 790.00	$ 790.00	0%	$ -
e)	Hickenbottom c/w rip-rap (Zone III)	1	ea	$ 790.00	$ 790.00	0%	$ -
				Subtotal	**$ 56,031.70**		**$ -**
	SCHEDULE H -LANDSCAPING AND STREET LIGHTING						
H1	Fine Grading and Placing 150mm of Topsoil and Sod on Boulevards	8222	m²	$ 8.50	$ 69,887.00	0%	$ -
H2	Supply & Place Street Tree Plantings	118	ea	$ 500.00	$ 59,000.00	0%	$ -
H3	Supply and Install Streetlight Poles and Luminaires	38	ea	$ 3,500.00	$ 133,000.00	10%	$ 13,300.00
				Subtotal	**$ 261,887.00**		**$ 13,300.00**

SUMMARY OF CONTRACT PRICES

PART B	**Remaining Works**
SCHEDULE B - SANITARY SEWER	$ 3,300.00
SCHEDULE C - STORM SEWERS	$ 3,300.00
SCHEDULE E - ROADWORKS	$ 8,748.00
SCHEDULE H -LANDSCAPING AND STREET LIGHTING	$ 13,300.00

Securities

Subtotal - Stage 1 & 2 Works	**$ 2,510,392.05**	
Subtotal - Stage 3 & 4 Works	**$ 471,789.40**	
Subtotal - SCHEDULES B-H	**$ 2,982,181.45**	$ 28,648.00
115% of Remaining Works		$ 32,945.20
10% of Completed Stage 3 & 4 Works		$ 44,314.14
Securties SubTotal		**$ 77,259.34**